



STANDARD  
PROFILES





## Extruded alloys- tempers & mechanical properties:

Standard alloys in production include:

| Alloy chemical composition as per EN 573-3 |           |           |           |           |           |           |      |      |       |       |      |
|--------------------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|------|------|-------|-------|------|
| Alloy                                      | Si        | Fe        | Cu        | Mn        | Mg        | Cr        | Zn   | Ti   | Other |       | Al   |
|                                            |           |           |           |           |           |           |      |      | Each  | Total |      |
| <b>6060</b><br>AlMgSi0,5<br>DIN3.3206      | 0,30-0,60 | 0,10-0,30 | 0,10      | 0,10      | 0,35-0,60 | 0,05      | 0,15 | 0,10 | 0,05  | 0,15  | Rest |
| <b>6063</b><br>AlMg0,7Si                   | 0,20-0,60 | 0,35      | 0,10      | 0,10      | 0,45-0,90 | 0,10      | 0,10 | 0,10 | 0,05  | 0,15  | Rest |
| <b>6005A</b><br>AlMgSi0,7<br>DIN3.3210     | 0,50-0,90 | 0,35      | 0,30      | 0,50      | 0,40-0,70 | 0,30      | 0,20 | 0,10 | 0,05  | 0,15  | Rest |
| <b>6082</b><br>AlSi1MgMn<br>DIN3.2315      | 0,70-1,30 | 0,50      | 0,10      | 0,40-1,00 | 0,60-1,20 | 0,25      | 0,20 | 0,10 | 0,05  | 0,15  | Rest |
| <b>6061*</b><br>AlMg1SiCu<br>DIN3.3211     | 0,40-0,80 | 0,70      | 0,15-0,40 | 0,15      | 0,80-1,20 | 0,04-0,35 | 0,25 | 0,15 | 0,05  | 0,15  | Rest |

\* Only available with a prior notice of 5 weeks and a minimum ordered quantity of 22 tons dispatched in one go.

| Available combinations of Alloys & Tempers |      |       |      |      |
|--------------------------------------------|------|-------|------|------|
| 6060                                       | 6063 | 6005A | 6082 | 6061 |
| F                                          | F    | F     | F    | F    |
| T4                                         | T4   | T4    | T4   | T4   |
| T5                                         | T5   | -     | T5   | -    |
| T64                                        | -    | -     | -    | -    |
| T6                                         | T6   | T6    | T6   | T6   |
| T66                                        | T66  | -     | -    | -    |

| Temper designation EN 515:2017 |                                                                                                                                                                                                                             |
|--------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| F                              | As fabricated (no specific mechanical property limits are specified)                                                                                                                                                        |
| T4                             | Solution heat treated & naturally aged.                                                                                                                                                                                     |
| T5                             | Cooled from an elevated temperature forming operation & artificially aged (precipitation hardened)                                                                                                                          |
| T64                            | Solution heat treated & artificially aged in underaged conditions to improve formability (bending temper)                                                                                                                   |
| T6                             | Solution heat treated & artificially aged (precipitation hardened). Press quenching required.                                                                                                                               |
| T66                            | Cooled from an elevated temperature forming operation & artificially aged (precipitation hardened) to a higher level of mechanical properties through special control of manufacturing processes. Press quenching required. |

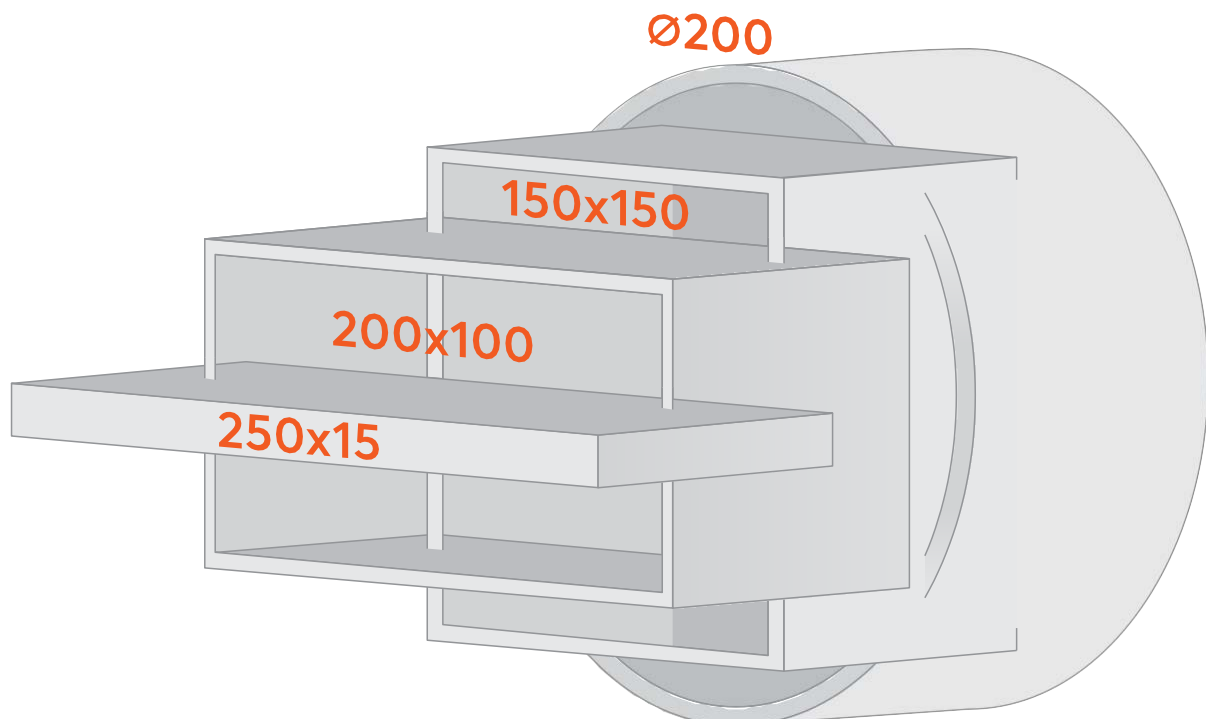
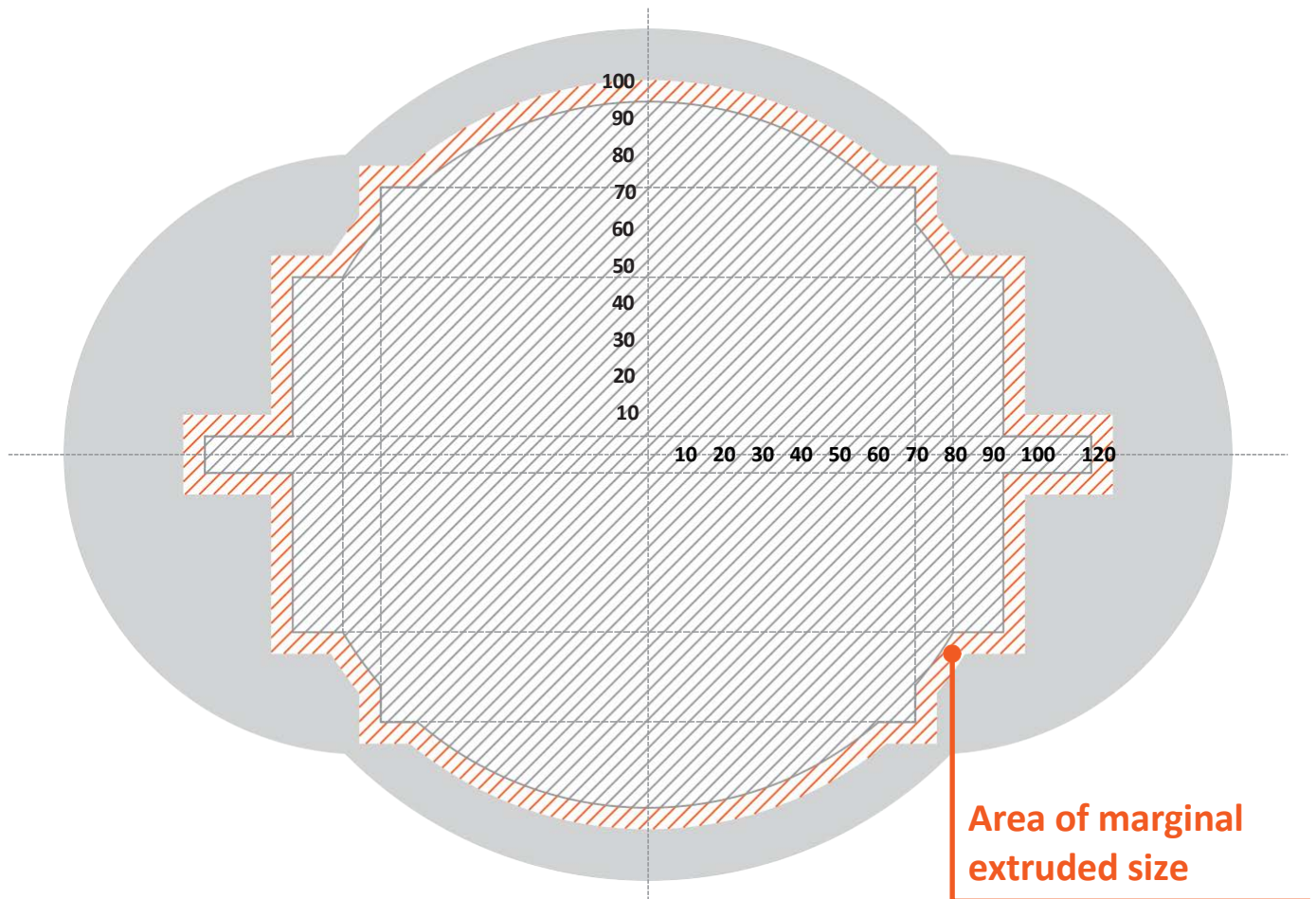
| Bendability classes to standardised tempers (EN 15088:2005) |                                                                                                                                                                                                                                              |    |    |       |     |     |
|-------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|----|-------|-----|-----|
| Alloy                                                       | T4                                                                                                                                                                                                                                           | T5 | T6 | T6510 | T64 | T66 |
| EN-AW 6060                                                  | -                                                                                                                                                                                                                                            | B3 | B3 | B3    | B2  | B3  |
| EN-AW 6063                                                  | -                                                                                                                                                                                                                                            | B3 | B3 | B3    | -   | B3  |
| EN-AW 6005A                                                 | -                                                                                                                                                                                                                                            | -  | -  | B3    | B3  | -   |
| EN-AW 6082                                                  | B2                                                                                                                                                                                                                                           | B3 | B3 | -     | -   | -   |
| EN-AW 6061                                                  | B2                                                                                                                                                                                                                                           | -  | B3 | B3    | -   | -   |
| <b>B2</b>                                                   | Material is in mid strained hardened/naturally aged/partially aged hardened. Bendability for simple symmetrical sections with medium radii is possible. Thin walled or complicated sections may require special devices or bending machines. |    |    |       |     |     |
| <b>B3</b>                                                   | Material is in hard/fully age hardened. For simple symmetrical sections bendability is possible only with relatively large radii. Thin walled or complicated sections may require special devices or bending machines.                       |    |    |       |     |     |

| Physical properties                | Alloys EN-AW |       |         |         |         |
|------------------------------------|--------------|-------|---------|---------|---------|
| Alloys EN-AW                       | 6060         | 6063  | 6005A   | 6082    | 6061    |
| Melting range °C                   | 585-650      |       | 585-650 | 585-650 | 580-640 |
| Density g/cm <sup>3</sup>          | 2,70         | 2,70  | 2,70    | 2,70    | 2,70    |
| Electrical Conductivity MS/m       | 34-38        |       | 26-32   | 24-32   | 22-30   |
| Thermal Conductivity W/(m K)       | 200-220      |       | 180-220 | 170-220 | 170-200 |
| Specific Heat J/(Kg K)             | 898          |       |         | 896     |         |
| Thermal Expansion Values           |              |       |         |         |         |
| -50 to 20 °C (10 <sup>-6</sup> /K) | 21,8         | 23,4  | 23,4    | 23,4    | 23,0    |
| 20 to 100 °C (10 <sup>-6</sup> /K) | 23,4         |       |         |         |         |
| 20 to 200 °C (10 <sup>-6</sup> /K) | 24,5         |       |         |         |         |
| 20 to 300 °C (10 <sup>-6</sup> /K) | 25,6         |       |         |         |         |
| Young's Modulus MPa                | 69500        | 69500 | 69500   | 70000   | 70000   |
| Shear Modulus MPa                  | 26100        | 26100 | 26200   | 26400   | 26300   |

| Mechanical properties as per EN 755-2:2016 (EXTRUDED PROFILES) |           |                |                              |                                 |               |                            |                  |
|----------------------------------------------------------------|-----------|----------------|------------------------------|---------------------------------|---------------|----------------------------|------------------|
| Alloy                                                          | Temper    | Wall Thickness | Tensile strength             | Yield strength                  | Elongation    |                            | Brinell Hardness |
|                                                                |           | e mm*          | R <sub>m</sub><br>MPa<br>min | R <sub>p0,2</sub><br>MPa<br>min | A<br>%<br>min | A <sub>50mm</sub><br>% min | HB**             |
| EN-AW 6060                                                     | T4        | e ≤ 25         | 120                          | 60                              | 16            | 14                         | 50               |
|                                                                | T5        | e ≤ 5          | 160                          | 120                             | 8             | 6                          | 60               |
|                                                                |           | 5 < e ≤ 25     | 140                          | 100                             | 8             | 6                          | 60               |
|                                                                | T6        | e ≤ 5          | 190                          | 150                             | 8             | 6                          | 60               |
|                                                                |           | 5 < e ≤ 25     | 170                          | 140                             | 8             | 6                          | 60               |
|                                                                | T64       | e ≤ 15         | 180                          | 120                             | 12            | 10                         | 60               |
|                                                                | T66       | e ≤ 5          | 215                          | 160                             | 8             | 6                          | 75               |
|                                                                |           | 5 < e ≤ 25     | 195                          | 150                             | 8             | 6                          | 75               |
| EN-AW 6063                                                     | T4        | e ≤ 25         | 130                          | 65                              | 14            | 12                         | 50               |
|                                                                | T5        | e ≤ 10         | 175                          | 130                             | 8             | 6                          | 65               |
|                                                                |           | 10 < e ≤ 25    | 160                          | 110                             | 7             | 5                          | 65               |
|                                                                | T6        | e ≤ 10         | 215                          | 170                             | 8             | 6                          | 75               |
|                                                                |           | 10 < e ≤ 25    | 195                          | 160                             | 8             | 6                          | 75               |
|                                                                | T66       | e ≤ 10         | 245                          | 200                             | 8             | 6                          | 80               |
|                                                                |           | 10 < e ≤ 25    | 225                          | 180                             | 8             | 6                          | 80               |
| EN-AW 6005A                                                    | T4 open   | e ≤ 25         | 180                          | 90                              | 15            | 13                         | 50               |
|                                                                | T4 hollow | e ≤ 10         | 180                          | 90                              | 15            | 13                         | 50               |
|                                                                | T6 open   | e ≤ 5          | 270                          | 225                             | 8             | 6                          | 90               |
|                                                                |           | 5 < e ≤ 10     | 260                          | 215                             | 8             | 6                          | 85               |
|                                                                |           | 10 < e ≤ 25    | 250                          | 200                             | 8             | 6                          | 85               |
|                                                                | T6 hollow | e ≤ 5          | 255                          | 215                             | 8             | 6                          | 85               |
|                                                                |           | 5 < e ≤ 15     | 250                          | 200                             | 8             | 6                          | 85               |
| EN-AW 6082                                                     | T4        | e ≤ 25         | 205                          | 110                             | 14            | 12                         | 35               |
|                                                                | T5 open   | e ≤ 5          | 270                          | 230                             | 8             | 6                          | 90               |
|                                                                | T5 hollow | e ≤ 5          | 270                          | 230                             | 8             | 6                          | 95               |
|                                                                | T6 open   | e ≤ 5          | 290                          | 250                             | 8             | 6                          | 95               |
|                                                                |           | 5 < e ≤ 25     | 310                          | 260                             | 10            | 8                          | 95               |
|                                                                | T6 hollow | e ≤ 5          | 290                          | 250                             | 8             | 6                          | 95               |
|                                                                |           | 5 < e ≤ 15     | 310                          | 260                             | 10            | 8                          | 95               |
| EN-AW 6061                                                     | T4        | e ≤ 25         | 180                          | 110                             | 15            | 13                         | 65               |
|                                                                | T6        | e ≤ 5          | 260                          | 240                             | 9             | 7                          | 95               |
|                                                                |           | 5 < e ≤ 25     | 260                          | 240                             | 10            | 8                          | 95               |

\* For a profile having different wall thicknesses, the lowest specified values of properties shall be considered as valid for the whole profile cross section. \*\* The values for the HB hardness are indicative only.

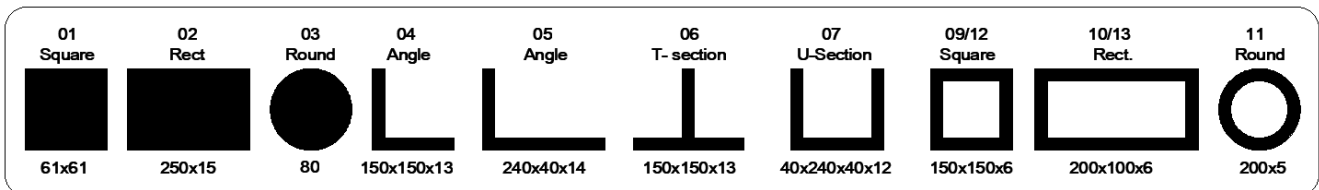
## Profile size production range





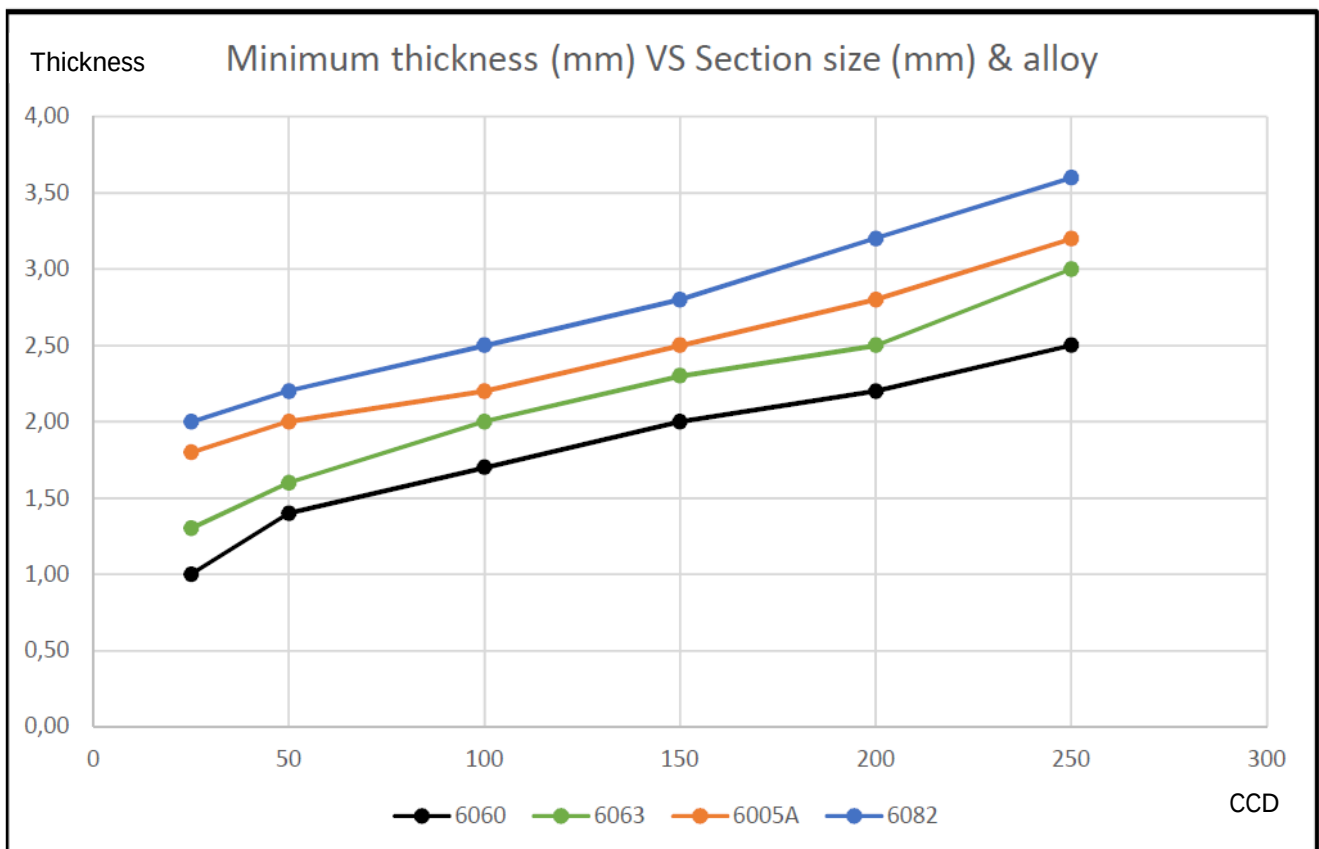
|                                    |                   |               |               |
|------------------------------------|-------------------|---------------|---------------|
| In tubes                           | Ø200 x 5 mm       | Weight range  |               |
| In square hollow sections          | 150 x 150 x 6 mm  |               |               |
| In rectangular hollow sections     | 200 x 100 x 6 mm  |               |               |
| In equal leg angles and T sections | 150 x 150 x 13 mm |               |               |
| In unequal leg angles and channels | 240 x 40 x 12 mm  | Minimum       | Maximum       |
| In rectangular (flat) bars         | 250 x 15 mm       |               |               |
| In square bars                     | 70 x 70 mm        |               |               |
| In round bars                      | Ø80 mm            |               |               |
|                                    |                   | 0,100<br>Kg/m | 13,00<br>Kg/m |

## Schematic extrusion maximums per shape



## Thickness vs Alloy

Depending on the size of the section (Circumscribed Circle Diameter, horizontal axis) and the alloy to extrude, the minimum thickness should follow the trend indicated by the chart below (vertical axis):





## Product forms & Applications

| Alloys      | Forms                                                | Characteristic properties                                                                                                                           | Applications                                                                                                                                                                                                                                           |
|-------------|------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| EN-AW 6060  | Extruded bars<br>Extruded tubes<br>Extruded profiles | V.good corrosion resistance, weldability, Medium strength, Complex sections, Anodising quality.                                                     | Architectural sections, windows, doors, curtain walls, lightings, railing, ladders, furniture, fences, truck flooring, heat sinks, irrigation, cooling pipes, electronic modules.                                                                      |
| EN-AW 6063  |                                                      | V.good corrosion resistance, weldability, Medium strength, Complex sections, Anodising quality.                                                     | Architectural sections, windows, doors, curtain walls, lightings, railing, ladders, furniture, fences, truck flooring, heat sinks, irrigation, cooling pipes, electronic modules, electric motor housings, office equipment, special machine elements. |
| EN-AW 6005A |                                                      | V.good corrosion resistance, V.good weldability, Medium-high strength, Complex sections, Anodising quality.                                         | Bus and railway profile structures, structural engineering, pylons, platforms, pipeline,...                                                                                                                                                            |
| EN-AW 6082  |                                                      | V.good corrosion resistance, V.good weldability, Medium-high strength, good machinability, formability in T4, Medium-high strength, Simple sections | Heavy duty structures in rail coaches, truck frames, ship building, offshore, bridges, boiler making, mast and beams for ship building, scaffolding, motorboats.                                                                                       |
| EN-AW 6061  |                                                      | V.good corrosion resistance, V.good weldability, Medium-high strength, good machinability, formability in T4, Medium-high strength, Simple sections | Heavy duty structures in rail coaches, truck frames, ship building, offshore, bridges, boiler making, mast and beams for ship building, scaffolding, motorboats                                                                                        |

## Quality control

We follow the European norms for:

| EN Standard                                                                   | Description                                                                                            |
|-------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|
| <b>Aluminium &amp; aluminium alloys- Extruded rod/bar, tubes and profiles</b> |                                                                                                        |
| EN 755-1                                                                      | Technical conditions for inspection & delivery                                                         |
| EN 755-2                                                                      | Mechanical properties                                                                                  |
| EN 515                                                                        | Temper designation                                                                                     |
| EN 573-3                                                                      | Chemical composition and form of products                                                              |
| EN 755-3                                                                      | Round bars, tolerances on dimension & form                                                             |
| EN 755-4                                                                      | Square bars, tolerances on dimension & form                                                            |
| EN 755-5                                                                      | Rectangular bars, tolerances on dimension & form                                                       |
| EN 755-6                                                                      | Hexagonal bars, tolerances on dimension & form                                                         |
| EN 755-8                                                                      | Porthole square, rect, hex, Oct, & round tubes, tolerances on dimension & form                         |
| EN 755-9                                                                      | Profiles, tolerances on dimension & form                                                               |
| EN- 12020-1                                                                   | Technical conditions for inspection & delivery (for precision profiles only)                           |
| EN- 12020-2                                                                   | Tolerances on dimension & form (for precision profiles only)                                           |
| <b>Metallic products- materials</b>                                           |                                                                                                        |
| EN ISO 6892-1                                                                 | Tensile testing- part 1: Method of test at room temperature                                            |
| EN- 10204                                                                     | Inspection certificates 2.3, 3.1, 3.2                                                                  |
| <b>On special request</b>                                                     |                                                                                                        |
| ASTM B 221M-07 (Metric)                                                       | Standard specification for Aluminium and Aluminium alloy Extruded Bars, Rods, Wire, Profiles and Tubes |
| ASTM B 429M- 06                                                               | Standard specification for Aluminium alloy Extruded Structural Pipe or Tube.                           |
| BS EN ISO 8493:2004                                                           | Tube- Drift- expanding test                                                                            |



## Certifications

| Cosmos Certificates                                                                               |
|---------------------------------------------------------------------------------------------------|
| ISO 9001                                                                                          |
| ISO 14001                                                                                         |
| ISO 50001                                                                                         |
| ISO 45001                                                                                         |
| Certificate of Conformity of Factory Production Control- 0094/CPR/MAD/1007756/A A1 ENG (*) - LRQA |
| LR Approved – No LR23156785WA                                                                     |
| REACH - RoHS                                                                                      |
| EPD                                                                                               |
| UK Certificate of Conformity of Factory Production Control – 0038/CPR/PRJ11100383196-1 - LRQA     |





## Square bars

### Vierkantstangen

01

#### Notes:

\* The weight of each profile is calculated by measuring it's cross-sectional area and multiplying it by the material density. The aluminium density is considered to be 2,70 gr/cm<sup>3</sup>.

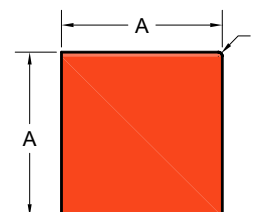
\*\* Alloy and Length is subject to customer's request.

\*\*\* Radii less than 1mm are not stated.

A=Height

A=Width

r=Corner radius



#### EXPERTS IN ALUMINIUM™

| Profile Code | A (mm) | r <sup>(***)</sup> (mm) | Additional charge | Area<br>Flaeche<br>(mm <sup>2</sup> ) | Weight<br>Gewicht<br>(Kg/m) |
|--------------|--------|-------------------------|-------------------|---------------------------------------|-----------------------------|
| 01-0015      | 6      |                         | *                 | 36                                    | 0,10                        |
| 01-0014      | 8      |                         |                   | 64                                    | 0,17                        |
| 01-0017      | 10     |                         |                   | 100                                   | 0,27                        |
| 01-0009      | 12     |                         |                   | 144                                   | 0,39                        |
| 01-0001      | 15     |                         |                   | 225                                   | 0,61                        |
| 01-0016      | 16     |                         |                   | 256                                   | 0,69                        |
| 01-0013      | 18     |                         |                   | 324                                   | 0,87                        |
| 01-0002      | 20     |                         |                   | 400                                   | 1,08                        |
| 01-0003      | 25     |                         |                   | 625                                   | 1,69                        |
| 01-0004      | 30     |                         |                   | 900                                   | 2,43                        |
| 01-0010      | 35     |                         |                   | 1225                                  | 3,31                        |
| 01-0005      | 40     |                         |                   | 1600                                  | 4,32                        |
| 01-0018      | 43     |                         |                   | 1849                                  | 4,99                        |
| 01-0011      | 45     |                         |                   | 2025                                  | 5,47                        |
| 01-0006      | 50     |                         |                   | 2500                                  | 6,75                        |
| 01-0008      | 55     |                         |                   | 3025                                  | 8,17                        |
| 01-0007      | 60     |                         |                   | 3600                                  | 9,72                        |
| 01-0012      | 61     |                         |                   | 3721                                  | 10,05                       |
| 01-0019      | 65     |                         |                   | 4225                                  | 11,41                       |
| 01-0020      | 70     |                         |                   | 4900                                  | 13,23                       |





## Rectangular bars (Flat bars)

### Rechteckstangen (Flachstangen)

02

#### Notes:

\* The weight of each profile is calculated by measuring its cross-sectional area and multiplying it by the material density. The aluminium density is considered to be 2,70 gr/cm<sup>3</sup>.

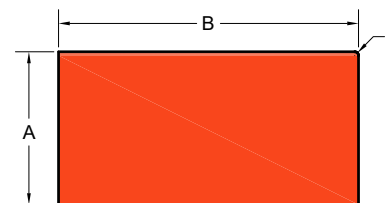
\*\* Alloy and Length is subject to customer's request.

\*\*\* Radii less than 1mm are not stated.

A=Height

B=Width

r=Corner radius



#### EXPERTS IN ALUMINIUM™

| Profile Code | B (mm) | A (mm) | r <sup>(***)</sup> (mm) | Additional charge | Area<br>Fläche<br>(mm <sup>2</sup> ) | Weight<br>Gewicht<br>(Kg/m) |
|--------------|--------|--------|-------------------------|-------------------|--------------------------------------|-----------------------------|
| 02-0152      | 10     | 2      |                         | *                 | 20                                   | 0,05                        |
| 02-0217      | 10     | 3      |                         | *                 | 30                                   | 0,08                        |
| 02-0241      | 10     | 4      |                         |                   | 40                                   | 0,11                        |
| 02-0135      | 10     | 5      |                         |                   | 50                                   | 0,14                        |
| 02-0134      | 10     | 8      |                         |                   | 80                                   | 0,22                        |
| 02-0229      | 12     | 2      |                         | *                 | 24                                   | 0,06                        |
| 02-0171      | 12     | 3      |                         |                   | 36                                   | 0,10                        |
| 02-0155      | 12     | 4      |                         |                   | 48                                   | 0,13                        |
| 02-0197      | 12     | 5      |                         |                   | 60                                   | 0,16                        |
| 02-0175      | 12     | 6      |                         |                   | 72                                   | 0,20                        |
| 02-0225      | 12     | 8      |                         |                   | 96                                   | 0,26                        |
| 02-0150      | 15     | 2      |                         | *                 | 30                                   | 0,08                        |
| 02-0000      | 15     | 3      |                         |                   | 45                                   | 0,12                        |
| 02-0173      | 15     | 4      |                         |                   | 60                                   | 0,16                        |
| 02-0001      | 15     | 5      |                         |                   | 75                                   | 0,20                        |
| 02-0180      | 15     | 6      |                         |                   | 90                                   | 0,24                        |
| 02-0106      | 15     | 8      |                         |                   | 120                                  | 0,32                        |
| 02-0189      | 15     | 10     |                         |                   | 150                                  | 0,41                        |
| 02-0138      | 15     | 12     |                         |                   | 180                                  | 0,49                        |
| 02-0139      | 18     | 2.5    |                         |                   | 45                                   | 0,12                        |
| 02-0200      | 18     | 5      |                         |                   | 90                                   | 0,24                        |
| 02-0002      | 20     | 2      |                         |                   | 40                                   | 0,11                        |
| 02-0185      | 20     | 2.5    |                         |                   | 50                                   | 0,14                        |
| 02-0003      | 20     | 3      |                         |                   | 60                                   | 0,16                        |
| 02-0004      | 20     | 4      |                         |                   | 80                                   | 0,22                        |
| 02-0005      | 20     | 5      |                         |                   | 100                                  | 0,27                        |
| 02-0129      | 20     | 6      |                         |                   | 120                                  | 0,32                        |
| 02-0187      | 20     | 7      |                         |                   | 140                                  | 0,38                        |
| 02-0006      | 20     | 8      |                         |                   | 160                                  | 0,43                        |
| 02-0007      | 20     | 10     |                         |                   | 200                                  | 0,54                        |
| 02-0097      | 20     | 12     |                         |                   | 240                                  | 0,65                        |

| Profile<br>Code | B<br>(mm) | A<br>(mm) | r <sup>(***)</sup><br>(mm) | Additional<br>charge | Area<br><i>Flaeche</i><br>(mm <sup>2</sup> ) | Weight<br><i>Gewicht</i><br>(Kg/m) |
|-----------------|-----------|-----------|----------------------------|----------------------|----------------------------------------------|------------------------------------|
| 02-0105         | 20        | 15        |                            |                      | 300                                          | 0,81                               |
| 02-0008         | 25        | 2         |                            |                      | 50                                           | 0,14                               |
| 02-0009         | 25        | 3         |                            |                      | 75                                           | 0,20                               |
| 02-0103         | 25        | 4         |                            |                      | 100                                          | 0,27                               |
| 02-0089         | 25        | 5         |                            |                      | 125                                          | 0,34                               |
| 02-0124         | 25        | 6         |                            |                      | 150                                          | 0,41                               |
| 02-0112         | 25        | 8         |                            |                      | 200                                          | 0,54                               |
| 02-0027         | 25        | 10        |                            |                      | 250                                          | 0,68                               |
| 02-0126         | 25        | 12        |                            |                      | 300                                          | 0,81                               |
| 02-0113         | 25        | 15        |                            |                      | 375                                          | 1,01                               |
| 02-0028         | 25        | 20        |                            |                      | 500                                          | 1,35                               |
| 02-0204         | 28        | 7         |                            |                      | 196                                          | 0,53                               |
| 02-0010         | 30        | 2         |                            |                      | 60                                           | 0,16                               |
| 02-0011         | 30        | 3         |                            |                      | 90                                           | 0,24                               |
| 02-0012         | 30        | 4         |                            |                      | 120                                          | 0,32                               |
| 02-0013         | 30        | 5         |                            |                      | 150                                          | 0,41                               |
| 02-0014         | 30        | 6         |                            |                      | 180                                          | 0,49                               |
| 02-0015         | 30        | 8         |                            |                      | 240                                          | 0,65                               |
| 02-0026         | 30        | 10        |                            |                      | 300                                          | 0,81                               |
| 02-0110         | 30        | 12        |                            |                      | 360                                          | 0,97                               |
| 02-0029         | 30        | 15        |                            |                      | 450                                          | 1,22                               |
| 02-0030         | 30        | 20        |                            |                      | 600                                          | 1,62                               |
| 02-0031         | 30        | 25        |                            |                      | 750                                          | 2,03                               |
| 02-0202         | 35        | 2         |                            |                      | 70                                           | 0,19                               |
| 02-0148         | 35        | 3         |                            |                      | 105                                          | 0,28                               |
| 02-0102         | 35        | 4         |                            |                      | 140                                          | 0,38                               |
| 02-0164         | 35        | 5         |                            |                      | 175                                          | 0,47                               |
| 02-0210         | 35        | 6         |                            |                      | 210                                          | 0,57                               |
| 02-0114         | 35        | 8         |                            |                      | 280                                          | 0,76                               |
| 02-0107         | 35        | 10        |                            |                      | 350                                          | 0,95                               |
| 02-0147         | 35        | 12        |                            |                      | 420                                          | 1,13                               |
| 02-0130         | 35        | 15        |                            |                      | 525                                          | 1,42                               |
| 02-0172         | 35        | 20        |                            |                      | 700                                          | 1,89                               |
| 02-0176         | 35        | 25        |                            |                      | 875                                          | 2,37                               |
| 02-0188         | 35        | 30        |                            |                      | 1050                                         | 2,85                               |
| 02-0016         | 40        | 2         |                            |                      | 80                                           | 0,22                               |
| 02-0017         | 40        | 3         |                            |                      | 120                                          | 0,32                               |
| 02-0018         | 40        | 4         |                            |                      | 160                                          | 0,43                               |
| 02-0019         | 40        | 5         |                            |                      | 200                                          | 0,54                               |
| 02-0020         | 40        | 6         |                            |                      | 240                                          | 0,65                               |
| 02-0032         | 40        | 8         |                            |                      | 320                                          | 0,86                               |
| 02-0033         | 40        | 10        |                            |                      | 400                                          | 1,08                               |
| 02-0111         | 40        | 12        |                            |                      | 480                                          | 1,30                               |
| 02-0034         | 40        | 15        |                            |                      | 600                                          | 1,62                               |
| 02-0035         | 40        | 20        |                            |                      | 800                                          | 2,16                               |
| 02-0108         | 40        | 25        |                            |                      | 1000                                         | 2,70                               |
| 02-0122         | 40        | 30        |                            |                      | 1200                                         | 3,24                               |

| Profile<br>Code | B<br>(mm) | A<br>(mm) | r <sup>(***)</sup><br>(mm) | Additional<br>charge | Area<br><i>Flaeche</i><br>(mm <sup>2</sup> ) | Weight<br><i>Gewicht</i><br>(Kg/m) |
|-----------------|-----------|-----------|----------------------------|----------------------|----------------------------------------------|------------------------------------|
| 02-0203         | 40        | 35        |                            |                      | 1400                                         | 3,79                               |
| 02-0240         | 45        | 2         |                            |                      | 90                                           | 0,24                               |
| 02-0169         | 45        | 3         |                            |                      | 135                                          | 0,36                               |
| 02-0230         | 45        | 4         |                            |                      | 180                                          | 0,49                               |
| 02-0206         | 45        | 5         |                            |                      | 225                                          | 0,61                               |
| 02-0228         | 45        | 6         |                            |                      | 270                                          | 0,73                               |
| 02-0158         | 45        | 8         |                            |                      | 360                                          | 0,97                               |
| 02-0192         | 45        | 10        |                            |                      | 450                                          | 1,22                               |
| 02-0167         | 45        | 15        |                            |                      | 675                                          | 1,82                               |
| 02-0215         | 45        | 20        |                            |                      | 900                                          | 2,43                               |
| 02-0245         | 45        | 25        |                            |                      | 1125                                         | 3,04                               |
| 02-0021         | 50        | 2         |                            |                      | 100                                          | 0,27                               |
| 02-0036         | 50        | 3         |                            |                      | 150                                          | 0,41                               |
| 02-0022         | 50        | 4         |                            |                      | 200                                          | 0,54                               |
| 02-0023         | 50        | 5         |                            |                      | 250                                          | 0,68                               |
| 02-0037         | 50        | 6         |                            |                      | 300                                          | 0,81                               |
| 02-0038         | 50        | 8         |                            |                      | 400                                          | 1,08                               |
| 02-0039         | 50        | 10        |                            |                      | 500                                          | 1,35                               |
| 02-0116         | 50        | 12        |                            |                      | 600                                          | 1,62                               |
| 02-0040         | 50        | 15        |                            |                      | 750                                          | 2,03                               |
| 02-0151         | 50        | 18        |                            |                      | 900                                          | 2,43                               |
| 02-0041         | 50        | 20        |                            |                      | 1000                                         | 2,70                               |
| 02-0099         | 50        | 25        |                            |                      | 1250                                         | 3,38                               |
| 02-0091         | 50        | 30        |                            |                      | 1500                                         | 4,05                               |
| 02-0220         | 50        | 35        |                            |                      | 1750                                         | 4,72                               |
| 02-0125         | 50        | 40        |                            |                      | 2000                                         | 5,40                               |
| 02-0233         | 55        | 6         |                            |                      | 330                                          | 0,89                               |
| 02-0226         | 55        | 8         |                            |                      | 440                                          | 1,19                               |
| 02-0198         | 55        | 10        |                            |                      | 550                                          | 1,49                               |
| 02-0024         | 60        | 2         |                            |                      | 120                                          | 0,32                               |
| 02-0025         | 60        | 3         |                            |                      | 180                                          | 0,49                               |
| 02-0090         | 60        | 4         |                            |                      | 240                                          | 0,65                               |
| 02-0042         | 60        | 5         |                            |                      | 300                                          | 0,81                               |
| 02-0043         | 60        | 6         |                            |                      | 360                                          | 0,97                               |
| 02-0044         | 60        | 8         |                            |                      | 480                                          | 1,30                               |
| 02-0045         | 60        | 10        |                            |                      | 600                                          | 1,62                               |
| 02-0123         | 60        | 12        |                            |                      | 720                                          | 1,94                               |
| 02-0046         | 60        | 15        |                            |                      | 900                                          | 2,43                               |
| 02-0047         | 60        | 20        |                            |                      | 1200                                         | 3,24                               |
| 02-0048         | 60        | 25        |                            |                      | 1500                                         | 4,05                               |
| 02-0049         | 60        | 30        |                            |                      | 1800                                         | 4,86                               |
| 02-0221         | 60        | 35        |                            |                      | 2100                                         | 5,67                               |
| 02-0050         | 60        | 40        |                            |                      | 2400                                         | 6,48                               |
| 02-0209         | 60        | 50        |                            |                      | 3000                                         | 8,13                               |
| 02-0159         | 65        | 5         |                            |                      | 325                                          | 0,88                               |
| 02-0178         | 65        | 10        |                            |                      | 650                                          | 1,76                               |
| 02-0232         | 65        | 15        |                            |                      | 975                                          | 2,63                               |

| Profile<br>Code | B<br>(mm) | A<br>(mm) | r <sup>(***)</sup><br>(mm) | Additional<br>charge | Area<br><i>Flaeche</i><br>(mm <sup>2</sup> ) | Weight<br><i>Gewicht</i><br>(Kg/m) |
|-----------------|-----------|-----------|----------------------------|----------------------|----------------------------------------------|------------------------------------|
| 02-0214         | 65        | 20        |                            |                      | 1300                                         | 3,51                               |
| 02-0183         | 70        | 2         |                            |                      | 140                                          | 0,38                               |
| 02-0140         | 70        | 3         |                            |                      | 210                                          | 0,57                               |
| 02-0104         | 70        | 4         |                            |                      | 280                                          | 0,76                               |
| 02-0133         | 70        | 5         |                            |                      | 350                                          | 0,95                               |
| 02-0131         | 70        | 6         |                            |                      | 420                                          | 1,13                               |
| 02-0115         | 70        | 8         |                            |                      | 560                                          | 1,51                               |
| 02-0051         | 70        | 10        |                            |                      | 700                                          | 1,89                               |
| 02-0199         | 70        | 12        |                            |                      | 840                                          | 2,28                               |
| 02-0121         | 70        | 15        |                            |                      | 1050                                         | 2,84                               |
| 02-0160         | 70        | 18        |                            |                      | 1260                                         | 3,40                               |
| 02-0141         | 70        | 20        |                            |                      | 1400                                         | 3,78                               |
| 02-0149         | 70        | 25        |                            |                      | 1750                                         | 4,72                               |
| 02-0127         | 70        | 30        |                            |                      | 2100                                         | 5,67                               |
| 02-0156         | 70        | 40        |                            |                      | 2800                                         | 7,56                               |
| 02-0218         | 70        | 50        |                            |                      | 3500                                         | 9,45                               |
| 02-0101         | 75        | 5         |                            |                      | 375                                          | 1,01                               |
| 02-0207         | 75        | 6         |                            |                      | 450                                          | 1,22                               |
| 02-0231         | 75        | 8         |                            |                      | 600                                          | 1,62                               |
| 02-0109         | 75        | 10        |                            |                      | 750                                          | 2,03                               |
| 02-0184         | 75        | 15        |                            |                      | 1125                                         | 3,05                               |
| 02-0238         | 75        | 20        |                            |                      | 1500                                         | 4,05                               |
| 02-0094         | 80        | 2         |                            |                      | 160                                          | 0,43                               |
| 02-0098         | 80        | 3         |                            |                      | 240                                          | 0,65                               |
| 02-0095         | 80        | 4         |                            |                      | 320                                          | 0,86                               |
| 02-0052         | 80        | 5         |                            |                      | 400                                          | 1,08                               |
| 02-0053         | 80        | 6         |                            |                      | 480                                          | 1,30                               |
| 02-0054         | 80        | 8         |                            |                      | 640                                          | 1,73                               |
| 02-0055         | 80        | 10        |                            |                      | 800                                          | 2,16                               |
| 02-0117         | 80        | 12        |                            |                      | 960                                          | 2,59                               |
| 02-0056         | 80        | 15        |                            |                      | 1200                                         | 3,24                               |
| 02-0057         | 80        | 20        |                            |                      | 1600                                         | 4,32                               |
| 02-0120         | 80        | 25        |                            |                      | 2000                                         | 5,40                               |
| 02-0100         | 80        | 30        |                            |                      | 2400                                         | 6,48                               |
| 02-0093         | 80        | 40        |                            |                      | 3200                                         | 8,64                               |
| 02-0224         | 80        | 45        |                            |                      | 3600                                         | 9,72                               |
| 02-0058         | 80        | 50        |                            |                      | 4000                                         | 10,80                              |
| 02-0182         | 80        | 60        |                            |                      | 4800                                         | 13,01                              |
| 02-0194         | 85        | 10        |                            |                      | 850                                          | 2,30                               |
| 02-0234         | 90        | 2         |                            |                      | 180                                          | 0,49                               |
| 02-0142         | 90        | 4         |                            |                      | 360                                          | 0,97                               |
| 02-0137         | 90        | 5         |                            |                      | 450                                          | 1,22                               |
| 02-0239         | 90        | 6         |                            |                      | 540                                          | 1,46                               |
| 02-0168         | 90        | 8         |                            |                      | 720                                          | 1,94                               |
| 02-0154         | 90        | 10        |                            |                      | 900                                          | 2,43                               |
| 02-0128         | 90        | 15        |                            |                      | 1350                                         | 3,64                               |
| 02-0191         | 90        | 20        |                            |                      | 1800                                         | 4,88                               |

| Profile<br>Code | B<br>(mm) | A<br>(mm) | r <sup>(***)</sup><br>(mm) | Additional<br>charge | Area<br><i>Flaeche</i><br>(mm <sup>2</sup> ) | Weight<br><i>Gewicht</i><br>(Kg/m) |
|-----------------|-----------|-----------|----------------------------|----------------------|----------------------------------------------|------------------------------------|
| 02-0227         | 90        | 30        |                            |                      | 2700                                         | 7,29                               |
| 02-0186         | 90        | 40        |                            |                      | 3600                                         | 9,76                               |
| 02-0213         | 100       | 2         |                            | *                    | 200                                          | 0,54                               |
| 02-0190         | 100       | 3         |                            |                      | 300                                          | 0,81                               |
| 02-0059         | 100       | 4         |                            |                      | 400                                          | 1,08                               |
| 02-0060         | 100       | 5         |                            |                      | 500                                          | 1,35                               |
| 02-0061         | 100       | 6         |                            |                      | 600                                          | 1,62                               |
| 02-0062         | 100       | 8         |                            |                      | 800                                          | 2,16                               |
| 02-0063         | 100       | 10        |                            |                      | 1000                                         | 2,70                               |
| 02-0132         | 100       | 12        |                            |                      | 1200                                         | 3,24                               |
| 02-0064         | 100       | 15        |                            |                      | 1500                                         | 4,05                               |
| 02-0065         | 100       | 20        |                            |                      | 2000                                         | 5,40                               |
| 02-0143         | 100       | 25        |                            |                      | 2500                                         | 6,75                               |
| 02-0066         | 100       | 30        |                            |                      | 3000                                         | 8,10                               |
| 02-0067         | 100       | 40        |                            |                      | 4000                                         | 10,80                              |
| 02-0068         | 100       | 50        |                            |                      | 5000                                         | 13,50                              |
| 02-0211         | 110       | 5         |                            |                      | 550                                          | 1,49                               |
| 02-0162         | 110       | 10        |                            |                      | 1100                                         | 2,97                               |
| 02-0179         | 110       | 30        |                            |                      | 3300                                         | 8,94                               |
| 02-0157         | 120       | 3         |                            |                      | 360                                          | 0,97                               |
| 02-0070         | 120       | 5         |                            |                      | 600                                          | 1,62                               |
| 02-0165         | 120       | 6         |                            |                      | 720                                          | 1,94                               |
| 02-0071         | 120       | 8         |                            |                      | 960                                          | 2,59                               |
| 02-0072         | 120       | 10        |                            |                      | 1200                                         | 3,24                               |
| 02-0145         | 120       | 12        |                            |                      | 1440                                         | 3,89                               |
| 02-0092         | 120       | 15        |                            |                      | 1800                                         | 4,86                               |
| 02-0073         | 120       | 20        |                            |                      | 2400                                         | 6,48                               |
| 02-0181         | 120       | 25        |                            |                      | 3000                                         | 8,13                               |
| 02-0074         | 120       | 30        |                            |                      | 3600                                         | 9,72                               |
| 02-0244         | 125       | 12        |                            |                      | 1500                                         | 4,05                               |
| 02-0177         | 125       | 20        |                            |                      | 2500                                         | 6,77                               |
| 02-0201         | 130       | 5         |                            |                      | 650                                          | 1,76                               |
| 02-0195         | 130       | 8         |                            |                      | 1040                                         | 2,91                               |
| 02-0205         | 130       | 10        |                            |                      | 1300                                         | 3,52                               |
| 02-0118         | 140       | 5         |                            |                      | 700                                          | 1,89                               |
| 02-0136         | 140       | 8         |                            |                      | 1120                                         | 3,02                               |
| 02-0193         | 140       | 10        |                            |                      | 1400                                         | 3,79                               |
| 02-0208         | 140       | 15        |                            |                      | 2100                                         | 5,69                               |
| 02-0196         | 140       | 20        |                            |                      | 2800                                         | 7,59                               |
| 02-0219         | 150       | 3         |                            | *                    | 450                                          | 1,22                               |
| 02-0146         | 150       | 4         |                            |                      | 600                                          | 1,62                               |
| 02-0075         | 150       | 5         |                            |                      | 750                                          | 2,03                               |
| 02-0077         | 150       | 8         |                            |                      | 1200                                         | 3,24                               |
| 02-0078         | 150       | 10        |                            |                      | 1500                                         | 4,05                               |
| 02-0161         | 150       | 12        |                            |                      | 1800                                         | 4,86                               |
| 02-0096         | 150       | 15        |                            |                      | 2250                                         | 6,08                               |
| 02-0079         | 150       | 20        |                            |                      | 3000                                         | 8,10                               |

| Profile<br>Code | B<br>(mm) | A<br>(mm) | r <sup>(***)</sup><br>(mm) | Additional<br>charge | Area<br><i>Flaeche</i><br>(mm <sup>2</sup> ) | Weight<br><i>Gewicht</i><br>(Kg/m) |
|-----------------|-----------|-----------|----------------------------|----------------------|----------------------------------------------|------------------------------------|
| 02-0222         | 150       | 25        |                            |                      | 3750                                         | 10,13                              |
| 02-0216         | 160       | 8         |                            |                      | 1280                                         | 3,46                               |
| 02-0080         | 160       | 10        |                            |                      | 1600                                         | 4,32                               |
| 02-0144         | 160       | 12        |                            |                      | 1920                                         | 5,18                               |
| 02-0163         | 160       | 15        |                            |                      | 2400                                         | 6,48                               |
| 02-0237         | 165       | 20        |                            |                      | 3300                                         | 8,91                               |
| 02-0223         | 170       | 10        |                            |                      | 1700                                         | 4,59                               |
| 02-0081         | 180       | 10        |                            |                      | 1800                                         | 4,86                               |
| 02-0153         | 180       | 12        |                            |                      | 2160                                         | 5,83                               |
| 02-0119         | 180       | 15        |                            |                      | 2700                                         | 7,29                               |
| 02-0174         | 180       | 20        |                            |                      | 3600                                         | 9,72                               |
| 02-0082         | 200       | 5         |                            |                      | 1000                                         | 2,70                               |
| 02-0166         | 200       | 6         |                            |                      | 1200                                         | 3,24                               |
| 02-0083         | 200       | 8         |                            |                      | 1600                                         | 4,32                               |
| 02-0084         | 200       | 10        |                            |                      | 2000                                         | 5,40                               |
| 02-0212         | 200       | 12        |                            |                      | 2400                                         | 6,48                               |
| 02-0085         | 200       | 15        |                            |                      | 3000                                         | 8,10                               |
| 02-0086         | 200       | 20        |                            |                      | 4000                                         | 10,80                              |
| 02-0087         | 250       | 8         |                            |                      | 2000                                         | 5,40                               |
| 02-0088         | 250       | 10        |                            |                      | 2500                                         | 6,75                               |
| 02-0242         | 250       | 15        |                            |                      | 3750                                         | 10,13                              |
| 02-0243         | 250       | 20        |                            |                      | 5000                                         | 13,50                              |

## Round bars (Rods)

### Rundstangen

03



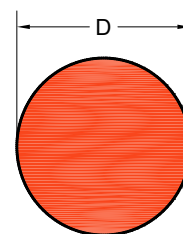
#### Notes:

\* The weight of each profile is calculated by measuring it's cross-sectional area and multiplying it by the material density. The aluminium density is considered to be 2,70 gr/cm<sup>3</sup>.

\*\* Alloy and Length is subject to customer's request.

\*\*\* Radii less than 1mm are not stated.

D = Diameter



#### EXPERTS IN ALUMINIUM™

| Profile Code | D (mm) | Additional charge            | Area Flaeche (mm <sup>2</sup> ) | Weight Gewicht (Kg/m) |
|--------------|--------|------------------------------|---------------------------------|-----------------------|
| 03-0035      | 6      | * DIAMETER TOLERANCE ±0,22MM | 28                              | 0,08                  |
| 03-0026      | 7      | * DIAMETER TOLERANCE ±0,22MM | 38                              | 0,10                  |
| 03-0000      | 8      |                              | 50                              | 0,14                  |
| 03-0034      | 9      |                              | 64                              | 0,17                  |
| 03-0001      | 10     |                              | 79                              | 0,21                  |
| 03-0033      | 11     |                              | 95                              | 0,26                  |
| 03-0002      | 12     |                              | 113                             | 0,31                  |
| 03-0038      | 13     |                              | 133                             | 0,36                  |
| 03-0036      | 13.5   |                              | 143                             | 0,39                  |
| 03-0037      | 14     |                              | 154                             | 0,42                  |
| 03-0003      | 15     |                              | 177                             | 0,48                  |
| 03-0011      | 16     |                              | 201                             | 0,54                  |
| 03-0016      | 18     |                              | 254                             | 0,69                  |
| 03-0004      | 20     |                              | 314                             | 0,85                  |
| 03-0030      | 21     |                              | 346                             | 0,93                  |
| 03-0017      | 22     |                              | 380                             | 1,03                  |
| 03-0045      | 23     |                              | 415                             | 1,12                  |
| 03-0031      | 24     |                              | 452                             | 1,22                  |
| 03-0005      | 25     |                              | 491                             | 1,32                  |
| 03-0028      | 26     |                              | 531                             | 1,43                  |
| 03-0041      | 27     |                              | 573                             | 1,55                  |
| 03-0032      | 28     |                              | 616                             | 1,66                  |
| 03-0046      | 29     |                              | 661                             | 1,78                  |
| 03-0006      | 30     |                              | 707                             | 1,91                  |
| 03-0018      | 32     |                              | 804                             | 2,17                  |
| 03-0027      | 33     |                              | 855                             | 2,31                  |
| 03-0019      | 34     |                              | 908                             | 2,45                  |
| 03-0012      | 35     |                              | 962                             | 2,60                  |
| 03-0015      | 36     |                              | 1018                            | 2,75                  |
| 03-0051      | 37     |                              | 1075                            | 2,90                  |
| 03-0020      | 38     |                              | 1134                            | 3,06                  |



| Profile<br>Code | D<br>(mm) | Additional<br>charge | Area<br><i>Flaeche</i><br>(mm <sup>2</sup> ) | Weight<br><i>Gewicht</i><br>(Kg/m) |
|-----------------|-----------|----------------------|----------------------------------------------|------------------------------------|
| 03-0007         | 40        |                      | 1257                                         | 3,39                               |
| 03-0025         | 41        |                      | 1320                                         | 3,56                               |
| 03-0021         | 42        |                      | 1385                                         | 3,74                               |
| 03-0029         | 44        |                      | 1521                                         | 4,11                               |
| 03-0013         | 45        |                      | 1590                                         | 4,29                               |
| 03-0039         | 46        |                      | 1662                                         | 4,49                               |
| 03-0043         | 47        |                      | 1735                                         | 4,70                               |
| 03-0042         | 48        |                      | 1810                                         | 4,90                               |
| 03-0044         | 49        |                      | 1886                                         | 5,09                               |
| 03-0008         | 50        |                      | 1963                                         | 5,30                               |
| 03-0040         | 52        |                      | 2124                                         | 5,76                               |
| 03-0050         | 53        |                      | 2206                                         | 5,96                               |
| 03-0022         | 55        |                      | 2376                                         | 6,42                               |
| 03-0049         | 56        |                      | 2463                                         | 6,65                               |
| 03-0009         | 60        |                      | 2827                                         | 7,63                               |
| 03-0052         | 62        |                      | 3019                                         | 8,15                               |
| 03-0023         | 65        |                      | 3318                                         | 8,96                               |
| 03-0014         | 68        |                      | 3632                                         | 9,81                               |
| 03-0024         | 70        |                      | 3848                                         | 10,39                              |
| 03-0048         | 75        |                      | 4418                                         | 11,93                              |
| 03-0047         | 80        |                      | 5027                                         | 13,57                              |



## Symmetrical L-Profiles (Angles)

### Gleichschenklige L-Profil (Winkelprofile)

04

#### Notes:

\* The weight of each profile is calculated by measuring its cross-sectional area and multiplying it by the material density. The aluminium density is considered to be 2,70 gr/cm<sup>3</sup>.

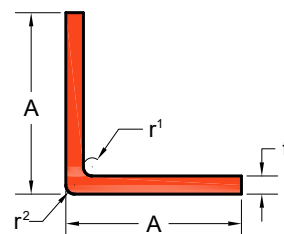
\*\* Alloy and Length is subject to customer's request.

\*\*\* Radii less than 1mm are not stated.

A=Height

A=Width

t=thickness



#### EXPERTS IN ALUMINIUM™

| Profile Code | A (mm) | A (mm) | t (mm) | Additional charge | Area Flaeche (mm <sup>2</sup> ) | Weight Gewicht (Kg/m) |
|--------------|--------|--------|--------|-------------------|---------------------------------|-----------------------|
| 04-0065      | 10     | 10     | 2      | *                 | 36                              | 0,10                  |
| 04-0072      | 12     | 12     | 2      |                   | 44                              | 0,12                  |
| 04-0056      | 15     | 15     | 1.2    | *                 | 35                              | 0,09                  |
| 04-0067      | 15     | 15     | 1.5    | *                 | 43                              | 0,12                  |
| 04-0000      | 15     | 15     | 2      |                   | 56                              | 0,15                  |
| 04-0001      | 15     | 15     | 3      |                   | 81                              | 0,22                  |
| 04-0002      | 20     | 20     | 1.5    |                   | 58                              | 0,16                  |
| 04-0003      | 20     | 20     | 2      |                   | 76                              | 0,21                  |
| 04-0004      | 20     | 20     | 3      |                   | 111                             | 0,30                  |
| 04-0049      | 20     | 20     | 4      |                   | 144                             | 0,39                  |
| 04-0075      | 25     | 25     | 1.2    |                   | 59                              | 0,16                  |
| 04-0005      | 25     | 25     | 1.5    |                   | 73                              | 0,20                  |
| 04-0066      | 25     | 25     | 1.6    |                   | 77                              | 0,21                  |
| 04-0006      | 25     | 25     | 2      |                   | 96                              | 0,26                  |
| 04-0007      | 25     | 25     | 3      |                   | 141                             | 0,38                  |
| 04-0051      | 25     | 25     | 4      |                   | 184                             | 0,50                  |
| 04-0063      | 25     | 25     | 5      |                   | 225                             | 0,61                  |
| 04-0058      | 30     | 30     | 1.5    |                   | 88                              | 0,24                  |
| 04-0062      | 30     | 30     | 1.8    |                   | 105                             | 0,28                  |
| 04-0008      | 30     | 30     | 2      |                   | 116                             | 0,31                  |
| 04-0009      | 30     | 30     | 3      |                   | 171                             | 0,46                  |
| 04-0010      | 30     | 30     | 4      |                   | 224                             | 0,60                  |
| 04-0040      | 30     | 30     | 5      |                   | 275                             | 0,74                  |
| 04-0011      | 35     | 35     | 2      |                   | 136                             | 0,37                  |
| 04-0012      | 35     | 35     | 3      |                   | 201                             | 0,54                  |
| 04-0013      | 35     | 35     | 4      |                   | 264                             | 0,71                  |
| 04-0055      | 35     | 35     | 5      |                   | 325                             | 0,88                  |
| 04-0015      | 40     | 40     | 2      |                   | 156                             | 0,42                  |
| 04-0014      | 40     | 40     | 3      |                   | 231                             | 0,62                  |
| 04-0020      | 40     | 40     | 4      |                   | 304                             | 0,82                  |
| 04-0021      | 40     | 40     | 5      |                   | 375                             | 1,01                  |

| Profile<br>Code | A<br>(mm) | A<br>(mm) | t<br>(mm) | Additional<br>charge | Area<br><i>Flaeche</i><br>(mm <sup>2</sup> ) | Weight<br><i>Gewicht</i><br>(Kg/m) |
|-----------------|-----------|-----------|-----------|----------------------|----------------------------------------------|------------------------------------|
| 04-0076         | 40        | 40        | 6         |                      | 444                                          | 1,20                               |
| 04-0016         | 45        | 45        | 2         |                      | 176                                          | 0,48                               |
| 04-0071         | 45        | 45        | 3         |                      | 261                                          | 0,71                               |
| 04-0074         | 45        | 45        | 4         |                      | 344                                          | 0,93                               |
| 04-0048         | 45        | 45        | 5         |                      | 425                                          | 1,15                               |
| 04-0017         | 50        | 50        | 2         |                      | 196                                          | 0,53                               |
| 04-0018         | 50        | 50        | 3         |                      | 291                                          | 0,79                               |
| 04-0022         | 50        | 50        | 4         |                      | 384                                          | 1,04                               |
| 04-0023         | 50        | 50        | 5         |                      | 475                                          | 1,28                               |
| 04-0039         | 50        | 50        | 6         |                      | 564                                          | 1,52                               |
| 04-0044         | 50        | 50        | 8         |                      | 736                                          | 1,99                               |
| 04-0060         | 50        | 50        | 10        |                      | 900                                          | 2,43                               |
| 04-0019         | 60        | 60        | 2         |                      | 236                                          | 0,64                               |
| 04-0024         | 60        | 60        | 3         |                      | 351                                          | 0,95                               |
| 04-0025         | 60        | 60        | 4         |                      | 464                                          | 1,25                               |
| 04-0026         | 60        | 60        | 5         |                      | 575                                          | 1,55                               |
| 04-0027         | 60        | 60        | 6         |                      | 684                                          | 1,85                               |
| 04-9001         | 60        | 60        | 7         |                      | 791                                          | 2,14                               |
| 04-0046         | 60        | 60        | 8         |                      | 896                                          | 2,42                               |
| 04-0053         | 60        | 60        | 10        |                      | 1100                                         | 2,97                               |
| 04-0064         | 70        | 70        | 2.5       |                      | 344                                          | 0,93                               |
| 04-0052         | 70        | 70        | 5         |                      | 675                                          | 1,82                               |
| 04-0037         | 70        | 70        | 6         |                      | 804                                          | 2,17                               |
| 04-0041         | 70        | 70        | 7         |                      | 931                                          | 2,51                               |
| 04-0059         | 75        | 75        | 5         |                      | 725                                          | 1,96                               |
| 04-0045         | 80        | 80        | 2         |                      | 316                                          | 0,85                               |
| 04-0028         | 80        | 80        | 3         |                      | 471                                          | 1,27                               |
| 04-0043         | 80        | 80        | 4         |                      | 624                                          | 1,68                               |
| 04-0029         | 80        | 80        | 5         |                      | 775                                          | 2,09                               |
| 04-0030         | 80        | 80        | 6         |                      | 924                                          | 2,49                               |
| 04-0031         | 80        | 80        | 8         |                      | 1216                                         | 3,28                               |
| 04-0050         | 80        | 80        | 10        |                      | 1500                                         | 4,05                               |
| 04-0061         | 80        | 80        | 12        |                      | 1776                                         | 4,79                               |
| 04-0038         | 100       | 100       | 3         |                      | 591                                          | 1,60                               |
| 04-0032         | 100       | 100       | 4         |                      | 784                                          | 2,12                               |
| 04-0054         | 100       | 100       | 5         |                      | 975                                          | 2,63                               |
| 04-0047         | 100       | 100       | 6         |                      | 1164                                         | 3,14                               |
| 04-0033         | 100       | 100       | 8         |                      | 1536                                         | 4,15                               |
| 04-0036         | 100       | 100       | 10        |                      | 1900                                         | 5,13                               |
| 04-0034         | 120       | 120       | 8         |                      | 1856                                         | 5,01                               |
| 04-0035         | 120       | 120       | 10        |                      | 2300                                         | 6,21                               |
| 04-0042         | 120       | 120       | 12        |                      | 2736                                         | 7,39                               |
| 04-0068         | 150       | 150       | 8         |                      | 2336                                         | 6,33                               |
| 04-0069         | 160       | 160       | 15        |                      | 4575                                         | 12,40                              |



## Asymmetrical L-Profiles (Angles)

### *Ungleichschenklige L-Profil (Winkelprofil)*

05

#### Notes:

\* The weight of each profile is calculated by measuring it's cross-sectional area and multiplying it by the material density. The aluminium density is considered to be 2,70 gr/cm<sup>3</sup>.

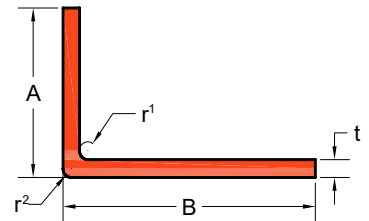
\*\* Alloy and Length is subject to customer's request.

\*\*\* Radii less than 1mm are not stated.

A=Height

B=Width

t=thickness



#### EXPERTS IN ALUMINIUM™

| Profile Code | A (mm) | B (mm) | t (mm) | Additional charge | Area<br>Flaeche<br>(mm <sup>2</sup> ) | Weight<br>Gewicht<br>(Kg/m) |
|--------------|--------|--------|--------|-------------------|---------------------------------------|-----------------------------|
| 05-0105      | 15     | 10     | 2      |                   | 46                                    | 0,12                        |
| 05-0172      | 20     | 10     | 1.5    |                   | 43                                    | 0,12                        |
| 05-0000      | 20     | 10     | 2      |                   | 56                                    | 0,15                        |
| 05-0192      | 20     | 15     | 1.5    |                   | 50                                    | 0,14                        |
| 05-0001      | 20     | 15     | 2      |                   | 66                                    | 0,18                        |
| 05-0213      | 20     | 15     | 3      |                   | 96                                    | 0,26                        |
| 05-0084      | 25     | 10     | 2      |                   | 66                                    | 0,18                        |
| 05-0002      | 25     | 15     | 2      |                   | 76                                    | 0,21                        |
| 05-0208      | 25     | 15     | 3      |                   | 111                                   | 0,30                        |
| 05-0003      | 25     | 20     | 2      |                   | 86                                    | 0,23                        |
| 05-0185      | 25     | 20     | 2.5    |                   | 106                                   | 0,29                        |
| 05-0103      | 25     | 20     | 3      |                   | 126                                   | 0,34                        |
| 05-0004      | 30     | 10     | 2      |                   | 76                                    | 0,21                        |
| 05-0005      | 30     | 15     | 2      |                   | 86                                    | 0,23                        |
| 05-0215      | 30     | 15     | 3      |                   | 126                                   | 0,34                        |
| 05-0006      | 30     | 20     | 2      |                   | 96                                    | 0,26                        |
| 05-0007      | 30     | 20     | 3      |                   | 141                                   | 0,38                        |
| 05-0134      | 30     | 20     | 4      |                   | 184                                   | 0,50                        |
| 05-0174      | 30     | 25     | 2      |                   | 106                                   | 0,29                        |
| 05-0180      | 30     | 25     | 3      |                   | 156                                   | 0,42                        |
| 05-0085      | 35     | 10     | 2      |                   | 86                                    | 0,23                        |
| 05-0219      | 35     | 15     | 2      |                   | 96                                    | 0,26                        |
| 05-0095      | 35     | 15     | 3      |                   | 141                                   | 0,38                        |
| 05-0008      | 35     | 20     | 2      |                   | 106                                   | 0,29                        |
| 05-0096      | 35     | 20     | 3      |                   | 156                                   | 0,42                        |
| 05-0009      | 35     | 25     | 2      |                   | 116                                   | 0,31                        |
| 05-0115      | 35     | 25     | 3      |                   | 171                                   | 0,46                        |
| 05-0164      | 40     | 10     | 2      |                   | 96                                    | 0,26                        |
| 05-0010      | 40     | 15     | 2      |                   | 106                                   | 0,29                        |
| 05-0011      | 40     | 20     | 2      |                   | 116                                   | 0,31                        |
| 05-0167      | 40     | 20     | 2.5    |                   | 144                                   | 0,39                        |

| Profile<br>Code | A<br>(mm) | B<br>(mm) | t<br>(mm) | Additional<br>charge | Area<br><i>Flaeche</i><br>(mm <sup>2</sup> ) | Weight<br><i>Gewicht</i><br>(Kg/m) |
|-----------------|-----------|-----------|-----------|----------------------|----------------------------------------------|------------------------------------|
| 05-0012         | 40        | 20        | 3         |                      | 171                                          | 0,46                               |
| 05-0013         | 40        | 20        | 4         |                      | 224                                          | 0,60                               |
| 05-0083         | 40        | 20        | 5         |                      | 275                                          | 0,74                               |
| 05-0123         | 40        | 25        | 2         |                      | 126                                          | 0,34                               |
| 05-0195         | 40        | 25        | 2.5       |                      | 156                                          | 0,42                               |
| 05-0014         | 40        | 25        | 3         |                      | 186                                          | 0,50                               |
| 05-0159         | 40        | 25        | 4         |                      | 244                                          | 0,66                               |
| 05-0015         | 40        | 30        | 2         |                      | 136                                          | 0,37                               |
| 05-0016         | 40        | 30        | 3         |                      | 201                                          | 0,54                               |
| 05-0017         | 40        | 30        | 4         |                      | 264                                          | 0,71                               |
| 05-0150         | 45        | 10        | 2         |                      | 106                                          | 0,29                               |
| 05-0153         | 45        | 20        | 2         |                      | 126                                          | 0,34                               |
| 05-0218         | 45        | 20        | 2.5       |                      | 156                                          | 0,42                               |
| 05-0168         | 45        | 20        | 3         |                      | 186                                          | 0,50                               |
| 05-0212         | 45        | 25        | 3         |                      | 201                                          | 0,54                               |
| 05-0018         | 45        | 30        | 3         |                      | 216                                          | 0,58                               |
| 05-0073         | 50        | 15        | 2         |                      | 126                                          | 0,34                               |
| 05-0221         | 50        | 15        | 4         |                      | 244                                          | 0,66                               |
| 05-0019         | 50        | 20        | 2         |                      | 136                                          | 0,37                               |
| 05-0113         | 50        | 20        | 3         |                      | 201                                          | 0,54                               |
| 05-0228         | 50        | 25        | 1.5       |                      | 110                                          | 0,30                               |
| 05-0076         | 50        | 25        | 2         |                      | 146                                          | 0,39                               |
| 05-0020         | 50        | 25        | 3         |                      | 216                                          | 0,58                               |
| 05-0162         | 50        | 25        | 4         |                      | 284                                          | 0,77                               |
| 05-0229         | 50        | 25        | 5         |                      | 350                                          | 0,95                               |
| 05-0021         | 50        | 30        | 2         |                      | 156                                          | 0,42                               |
| 05-0217         | 50        | 30        | 2.5       |                      | 194                                          | 0,52                               |
| 05-0022         | 50        | 30        | 3         |                      | 231                                          | 0,62                               |
| 05-0078         | 50        | 30        | 4         |                      | 304                                          | 0,82                               |
| 05-0030         | 50        | 30        | 5         |                      | 375                                          | 1,01                               |
| 05-9002         | 50        | 35        | 4         |                      | 324                                          | 0,88                               |
| 05-0063         | 50        | 40        | 1.8       |                      | 159                                          | 0,43                               |
| 05-0023         | 50        | 40        | 2         |                      | 176                                          | 0,48                               |
| 05-0024         | 50        | 40        | 3         |                      | 261                                          | 0,70                               |
| 05-0077         | 50        | 40        | 4         |                      | 344                                          | 0,92                               |
| 05-0187         | 50        | 40        | 5         |                      | 425                                          | 1,15                               |
| 05-0144         | 50        | 45        | 5         |                      | 450                                          | 1,22                               |
| 05-0070         | 55        | 45        | 5         |                      | 475                                          | 1,28                               |
| 05-0142         | 60        | 10        | 2         |                      | 136                                          | 0,37                               |
| 05-0156         | 60        | 15        | 2         |                      | 146                                          | 0,39                               |
| 05-0025         | 60        | 20        | 2         |                      | 156                                          | 0,42                               |
| 05-0089         | 60        | 20        | 3         |                      | 231                                          | 0,62                               |
| 05-0133         | 60        | 25        | 2         |                      | 166                                          | 0,45                               |
| 05-0160         | 60        | 25        | 2.5       |                      | 206                                          | 0,56                               |
| 05-0166         | 60        | 25        | 3         |                      | 246                                          | 0,66                               |
| 05-0026         | 60        | 30        | 2         |                      | 176                                          | 0,48                               |
| 05-0027         | 60        | 30        | 3         |                      | 261                                          | 0,70                               |

| Profile<br>Code | A<br>(mm) | B<br>(mm) | t<br>(mm) | Additional<br>charge | Area<br><i>Flaeche</i><br>(mm <sup>2</sup> ) | Weight<br><i>Gewicht</i><br>(Kg/m) |
|-----------------|-----------|-----------|-----------|----------------------|----------------------------------------------|------------------------------------|
| 05-0149         | 60        | 30        | 4         |                      | 344                                          | 0,93                               |
| 05-0031         | 60        | 30        | 5         |                      | 425                                          | 1,15                               |
| 05-0182         | 60        | 30        | 6         |                      | 504                                          | 1,37                               |
| 05-0145         | 60        | 35        | 2         |                      | 186                                          | 0,50                               |
| 05-0028         | 60        | 40        | 2         |                      | 196                                          | 0,53                               |
| 05-0189         | 60        | 40        | 2.5       |                      | 244                                          | 0,66                               |
| 05-0029         | 60        | 40        | 3         |                      | 291                                          | 0,79                               |
| 05-0032         | 60        | 40        | 4         |                      | 384                                          | 1,04                               |
| 05-0033         | 60        | 40        | 5         |                      | 475                                          | 1,28                               |
| 05-0125         | 60        | 40        | 6         |                      | 564                                          | 1,52                               |
| 05-0177         | 60        | 50        | 3         |                      | 321                                          | 0,87                               |
| 05-0170         | 60        | 50        | 4         |                      | 424                                          | 1,15                               |
| 05-0126         | 60        | 50        | 5         |                      | 525                                          | 1,42                               |
| 05-0226         | 65        | 40        | 8         |                      | 776                                          | 2,09                               |
| 05-0118         | 65        | 50        | 4         |                      | 444                                          | 1,20                               |
| 05-0130         | 65        | 50        | 5         |                      | 550                                          | 1,48                               |
| 05-0151         | 70        | 15        | 2         |                      | 166                                          | 0,45                               |
| 05-0141         | 70        | 15        | 3         |                      | 246                                          | 0,66                               |
| 05-0034         | 70        | 20        | 2         |                      | 176                                          | 0,48                               |
| 05-0092         | 70        | 25        | 2.5       |                      | 231                                          | 0,62                               |
| 05-0074         | 70        | 30        | 2         |                      | 196                                          | 0,53                               |
| 05-0100         | 70        | 30        | 3         |                      | 291                                          | 0,79                               |
| 05-0094         | 70        | 40        | 2         |                      | 216                                          | 0,58                               |
| 05-0114         | 70        | 40        | 5         |                      | 525                                          | 1,42                               |
| 05-0086         | 70        | 50        | 3         |                      | 351                                          | 0,95                               |
| 05-0184         | 70        | 50        | 5         |                      | 575                                          | 1,56                               |
| 05-0165         | 75        | 30        | 5         |                      | 500                                          | 1,35                               |
| 05-0081         | 75        | 50        | 4         |                      | 484                                          | 1,31                               |
| 05-0079         | 75        | 50        | 5         |                      | 600                                          | 1,62                               |
| 05-0186         | 75        | 50        | 6         |                      | 714                                          | 1,93                               |
| 05-0155         | 75        | 50        | 7         |                      | 826                                          | 2,23                               |
| 05-0201         | 75        | 50        | 8         |                      | 936                                          | 2,53                               |
| 05-0211         | 80        | 15        | 2         |                      | 186                                          | 0,50                               |
| 05-0035         | 80        | 20        | 2         |                      | 196                                          | 0,53                               |
| 05-0124         | 80        | 25        | 2         |                      | 206                                          | 0,56                               |
| 05-0090         | 80        | 25        | 2.5       |                      | 256                                          | 0,69                               |
| 05-0036         | 80        | 30        | 3         |                      | 321                                          | 0,87                               |
| 05-0037         | 80        | 40        | 2         |                      | 236                                          | 0,64                               |
| 05-0038         | 80        | 40        | 3         |                      | 351                                          | 0,95                               |
| 05-0039         | 80        | 40        | 4         |                      | 464                                          | 1,25                               |
| 05-0091         | 80        | 40        | 5         |                      | 575                                          | 1,55                               |
| 05-0082         | 80        | 40        | 6         |                      | 684                                          | 1,85                               |
| 05-0202         | 80        | 40        | 8         |                      | 896                                          | 2,42                               |
| 05-0178         | 80        | 45        | 2         |                      | 246                                          | 0,67                               |
| 05-0068         | 80        | 50        | 2         |                      | 256                                          | 0,69                               |
| 05-0136         | 80        | 50        | 4         |                      | 504                                          | 1,36                               |
| 05-0122         | 80        | 50        | 5         |                      | 625                                          | 1,69                               |

| Profile<br>Code | A<br>(mm) | B<br>(mm) | t<br>(mm) | Additional<br>charge | Area<br><i>Flaeche</i><br>(mm <sup>2</sup> ) | Weight<br><i>Gewicht</i><br>(Kg/m) |
|-----------------|-----------|-----------|-----------|----------------------|----------------------------------------------|------------------------------------|
| 05-0152         | 80        | 50        | 6         |                      | 744                                          | 2,01                               |
| 05-0196         | 80        | 50        | 8         |                      | 976                                          | 2,64                               |
| 05-0223         | 80        | 60        | 1,5       | *                    | 208                                          | 0,56                               |
| 05-0214         | 80        | 60        | 2         |                      | 276                                          | 0,75                               |
| 05-9001         | 80        | 60        | 3         |                      | 411                                          | 1,11                               |
| 05-0120         | 80        | 60        | 4         |                      | 544                                          | 1,47                               |
| 05-0067         | 80        | 60        | 6         |                      | 804                                          | 2,17                               |
| 05-0207         | 80        | 60        | 8         |                      | 1056                                         | 2,85                               |
| 05-0227         | 80        | 65        | 10        |                      | 1350                                         | 3,65                               |
| 05-0224         | 90        | 30        | 3         |                      | 351                                          | 0,95                               |
| 05-0128         | 90        | 40        | 2         |                      | 256                                          | 0,69                               |
| 05-0216         | 90        | 40        | 4         |                      | 504                                          | 1,36                               |
| 05-0222         | 90        | 40        | 5         |                      | 625                                          | 1,69                               |
| 05-0206         | 90        | 40        | 6         |                      | 744                                          | 2,01                               |
| 05-0041         | 100       | 20        | 2         |                      | 236                                          | 0,64                               |
| 05-0163         | 100       | 25        | 2         |                      | 246                                          | 0,67                               |
| 05-0193         | 100       | 25        | 3         |                      | 366                                          | 0,99                               |
| 05-0137         | 100       | 30        | 2         |                      | 256                                          | 0,69                               |
| 05-0042         | 100       | 30        | 3         |                      | 381                                          | 1,03                               |
| 05-0138         | 100       | 40        | 2         |                      | 276                                          | 0,75                               |
| 05-0043         | 100       | 40        | 3         |                      | 411                                          | 1,11                               |
| 05-0044         | 100       | 40        | 4         |                      | 544                                          | 1,47                               |
| 05-0198         | 100       | 40        | 6         |                      | 804                                          | 2,17                               |
| 05-0157         | 100       | 50        | 2         |                      | 296                                          | 0,80                               |
| 05-0045         | 100       | 50        | 3         |                      | 441                                          | 1,19                               |
| 05-0210         | 100       | 50        | 4         |                      | 584                                          | 1,58                               |
| 05-0046         | 100       | 50        | 5         |                      | 725                                          | 1,96                               |
| 05-0066         | 100       | 50        | 6         |                      | 864                                          | 2,33                               |
| 05-0197         | 100       | 50        | 7         |                      | 1001                                         | 2,71                               |
| 05-0104         | 100       | 50        | 8         |                      | 1136                                         | 3,07                               |
| 05-0087         | 100       | 50        | 10        |                      | 1400                                         | 3,78                               |
| 05-0135         | 100       | 60        | 4         |                      | 624                                          | 1,68                               |
| 05-0047         | 100       | 60        | 6         |                      | 924                                          | 2,49                               |
| 05-0119         | 100       | 60        | 8         |                      | 1216                                         | 3,28                               |
| 05-0230         | 100       | 60        | 10        |                      | 1500                                         | 4,05                               |
| 05-0117         | 100       | 64        | 8         |                      | 1248                                         | 3,37                               |
| 05-0116         | 100       | 70        | 2         |                      | 336                                          | 0,91                               |
| 05-0146         | 100       | 70        | 4         |                      | 664                                          | 1,79                               |
| 05-0179         | 100       | 75        | 8         |                      | 1336                                         | 3,62                               |
| 05-0220         | 100       | 80        | 3         |                      | 531                                          | 1,43                               |
| 05-0099         | 100       | 80        | 4         |                      | 704                                          | 1,90                               |
| 05-0069         | 100       | 80        | 6         |                      | 1044                                         | 2,82                               |
| 05-0161         | 100       | 80        | 8         |                      | 1376                                         | 3,71                               |
| 05-0190         | 100       | 80        | 10        |                      | 1700                                         | 4,61                               |
| 05-0148         | 110       | 30        | 2         |                      | 276                                          | 0,75                               |
| 05-0199         | 110       | 40        | 3         |                      | 441                                          | 1,19                               |
| 05-0169         | 110       | 80        | 10        |                      | 1800                                         | 4,88                               |

| Profile<br>Code | A<br>(mm) | B<br>(mm) | t<br>(mm) | Additional<br>charge | Area<br><i>Flaeche</i><br>(mm <sup>2</sup> ) | Weight<br><i>Gewicht</i><br>(Kg/m) |
|-----------------|-----------|-----------|-----------|----------------------|----------------------------------------------|------------------------------------|
| 05-0102         | 116       | 30        | 10        |                      | 1360                                         | 3,51                               |
| 05-0097         | 120       | 20        | 2         |                      | 276                                          | 0,75                               |
| 05-0075         | 120       | 20        | 2.5       |                      | 344                                          | 0,93                               |
| 05-0204         | 120       | 40        | 2.5       |                      | 394                                          | 1,06                               |
| 05-0050         | 120       | 40        | 3         |                      | 471                                          | 1,27                               |
| 05-0071         | 120       | 40        | 4         |                      | 624                                          | 1,69                               |
| 05-0051         | 120       | 50        | 5         |                      | 825                                          | 2,23                               |
| 05-0188         | 120       | 60        | 5         |                      | 875                                          | 2,37                               |
| 05-0052         | 120       | 60        | 6         |                      | 1044                                         | 2,82                               |
| 05-0053         | 120       | 60        | 8         |                      | 1376                                         | 3,72                               |
| 05-0112         | 120       | 60        | 10        |                      | 1700                                         | 4,59                               |
| 05-0054         | 120       | 80        | 3         |                      | 591                                          | 1,60                               |
| 05-0209         | 120       | 80        | 8         |                      | 1536                                         | 4,15                               |
| 05-0072         | 120       | 80        | 10        |                      | 1900                                         | 5,13                               |
| 05-0080         | 120       | 80        | 15        |                      | 2775                                         | 7,49                               |
| 05-0088         | 125       | 85        | 8         |                      | 1616                                         | 4,36                               |
| 05-0143         | 130       | 30        | 3         |                      | 471                                          | 1,27                               |
| 05-0183         | 130       | 65        | 8         |                      | 1496                                         | 4,05                               |
| 05-0173         | 130       | 80        | 6         |                      | 1224                                         | 3,32                               |
| 05-0140         | 130       | 80        | 8         |                      | 1616                                         | 4,36                               |
| 05-0203         | 130       | 100       | 8         |                      | 1776                                         | 5,94                               |
| 05-0131         | 135       | 40        | 3         |                      | 516                                          | 1,39                               |
| 05-0132         | 135       | 40        | 6         |                      | 1014                                         | 2,74                               |
| 05-0139         | 135       | 100       | 5         |                      | 1150                                         | 3,11                               |
| 05-0055         | 140       | 40        | 3         |                      | 531                                          | 1,43                               |
| 05-0231         | 150       | 35        | 10        |                      | 1750                                         | 4,73                               |
| 05-0064         | 150       | 40        | 3         |                      | 561                                          | 1,52                               |
| 05-0225         | 150       | 40        | 8         |                      | 1456                                         | 3,93                               |
| 05-0056         | 150       | 50        | 4         |                      | 784                                          | 2,12                               |
| 05-0098         | 150       | 50        | 5         |                      | 975                                          | 2,63                               |
| 05-0171         | 150       | 50        | 8         |                      | 1536                                         | 4,16                               |
| 05-0057         | 150       | 75        | 8         |                      | 1736                                         | 4,69                               |
| 05-0205         | 150       | 75        | 10        |                      | 2150                                         | 5,81                               |
| 05-0121         | 150       | 80        | 6         |                      | 1344                                         | 3,63                               |
| 05-0058         | 150       | 100       | 5         |                      | 1225                                         | 3,31                               |
| 05-0129         | 150       | 100       | 10        |                      | 2400                                         | 6,48                               |
| 05-0059         | 160       | 40        | 3         |                      | 591                                          | 1,60                               |
| 05-0147         | 160       | 40        | 4         |                      | 784                                          | 2,12                               |
| 05-0106         | 160       | 50        | 3         |                      | 621                                          | 1,68                               |
| 05-0060         | 180       | 40        | 3         |                      | 651                                          | 1,76                               |
| 05-0127         | 180       | 40        | 4         |                      | 864                                          | 2,33                               |
| 05-0176         | 180       | 50        | 3         |                      | 681                                          | 1,85                               |
| 05-0194         | 180       | 50        | 10        |                      | 2200                                         | 5,96                               |
| 05-0101         | 180       | 70        | 10        |                      | 2400                                         | 6,48                               |
| 05-0093         | 180       | 80        | 10        |                      | 2500                                         | 6,75                               |
| 05-0154         | 180       | 100       | 8         |                      | 2176                                         | 5,88                               |
| 05-0175         | 180       | 150       | 6         |                      | 1944                                         | 5,27                               |



| Profile<br>Code | A<br>(mm) | B<br>(mm) | t<br>(mm) | Additional<br>charge | Area<br><i>Flaeche</i><br>(mm <sup>2</sup> ) | Weight<br><i>Gewicht</i><br>(Kg/m) |
|-----------------|-----------|-----------|-----------|----------------------|----------------------------------------------|------------------------------------|
| 05-0061         | 200       | 40        | 3         |                      | 711                                          | 1,92                               |
| 05-0107         | 200       | 40        | 4         |                      | 944                                          | 2,55                               |
| 05-0200         | 200       | 60        | 5         |                      | 1275                                         | 3,44                               |
| 05-0158         | 200       | 70        | 12        |                      | 3096                                         | 8,36                               |
| 05-0181         | 200       | 100       | 5         |                      | 1475                                         | 4,00                               |
| 05-0062         | 200       | 100       | 10        |                      | 2900                                         | 7,83                               |
| 05-0191         | 200       | 100       | 15        |                      | 4275                                         | 11,58                              |
| 05-0108         | 220       | 40        | 3         |                      | 771                                          | 2,08                               |
| 05-0109         | 220       | 40        | 4         |                      | 1024                                         | 2,76                               |
| 05-0110         | 240       | 40        | 3         |                      | 831                                          | 2,24                               |
| 05-0111         | 240       | 40        | 4         |                      | 1104                                         | 2,98                               |

## T-Profiles

### T-Profile

06



#### Notes:

\* The weight of each profile is calculated by measuring it's cross-sectional area and multiplying it by the material density. The aluminium density is considered to be 2,70 gr/cm<sup>3</sup>.

\*\* Alloy and Length is subject to customer's request.

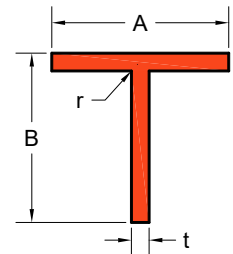
\*\*\* Radii less than 1mm are not stated.

A=Width

B=Height

t=thickness

r=Corner radius



#### EXPERTS IN ALUMINIUM™

| Profile Code | A<br>Width<br>(mm) | B<br>Height<br>(mm) | t<br>thickness<br>(mm) | Additional charge | Area<br>Flaeche<br>(mm <sup>2</sup> ) | Weight<br>Gewicht<br>(Kg/m) |
|--------------|--------------------|---------------------|------------------------|-------------------|---------------------------------------|-----------------------------|
| 06-0031      | 15                 | 15                  | 2                      |                   | 56                                    | 0,15                        |
| 06-0012      | 20                 | 20                  | 2                      |                   | 76                                    | 0,20                        |
| 06-0048      | 20                 | 20                  | 3                      |                   | 111                                   | 0,30                        |
| 06-0045      | 25                 | 25                  | 2                      |                   | 96                                    | 0,26                        |
| 06-0017      | 25                 | 25                  | 3                      |                   | 141                                   | 0,38                        |
| 06-0030      | 30                 | 30                  | 2                      |                   | 116                                   | 0,31                        |
| 06-0018      | 30                 | 30                  | 3                      |                   | 171                                   | 0,46                        |
| 06-0027      | 30                 | 40                  | 3                      |                   | 201                                   | 0,54                        |
| 06-0000      | 30                 | 60                  | 4                      |                   | 344                                   | 0,93                        |
| 06-0049      | 35                 | 35                  | 3                      |                   | 201                                   | 0,54                        |
| 06-0060      | 40                 | 20                  | 2                      |                   | 116                                   | 0,31                        |
| 06-0026      | 40                 | 25                  | 2                      |                   | 126                                   | 0,34                        |
| 06-0067      | 40                 | 40                  | 2                      |                   | 156                                   | 0,42                        |
| 06-0016      | 40                 | 40                  | 3                      |                   | 231                                   | 0,62                        |
| 06-0001      | 40                 | 40                  | 4                      |                   | 304                                   | 0,82                        |
| 06-0069      | 40                 | 50                  | 2                      |                   | 176                                   | 0,48                        |
| 06-0028      | 40                 | 60                  | 5                      |                   | 475                                   | 1,28                        |
| 06-0042      | 45                 | 45                  | 3                      |                   | 261                                   | 0,70                        |
| 06-0044      | 50                 | 25                  | 4                      |                   | 284                                   | 0,77                        |
| 06-0053      | 50                 | 30                  | 4                      |                   | 304                                   | 0,82                        |
| 06-0052      | 50                 | 50                  | 2                      |                   | 196                                   | 0,53                        |
| 06-0023      | 50                 | 50                  | 3                      |                   | 291                                   | 0,79                        |
| 06-0004      | 50                 | 50                  | 4                      |                   | 384                                   | 1,04                        |
| 06-0041      | 50                 | 50                  | 5                      |                   | 475                                   | 1,29                        |
| 06-0020      | 50                 | 80                  | 4                      |                   | 504                                   | 1,36                        |
| 06-0003      | 50                 | 80                  | 5                      |                   | 625                                   | 1,69                        |
| 06-0063      | 50                 | 100                 | 5                      |                   | 725                                   | 1,96                        |
| 06-0029      | 60                 | 40                  | 3                      |                   | 291                                   | 0,79                        |
| 06-0054      | 60                 | 40                  | 4                      |                   | 384                                   | 1,04                        |
| 06-0061      | 60                 | 40                  | 5                      |                   | 475                                   | 1,28                        |
| 06-0037      | 60                 | 60                  | 3                      |                   | 351                                   | 0,95                        |

| Profile<br>Code | A<br><i>Width</i><br>(mm) | B<br><i>Height</i><br>(mm) | t<br>thickness<br>(mm) | Additional<br>charge | Area<br><i>Flaeche</i><br>(mm <sup>2</sup> ) | Weight<br><i>Gewicht</i><br>(Kg/m) |
|-----------------|---------------------------|----------------------------|------------------------|----------------------|----------------------------------------------|------------------------------------|
| 06-0005         | 60                        | 60                         | 4                      |                      | 464                                          | 1,25                               |
| 06-0006         | 60                        | 60                         | 6                      |                      | 684                                          | 1,85                               |
| 06-0033         | 60                        | 70                         | 4                      |                      | 504                                          | 1,36                               |
| 06-0007         | 60                        | 100                        | 5                      |                      | 775                                          | 2,09                               |
| 06-0068         | 65                        | 60                         | 2                      |                      | 246                                          | 0,66                               |
| 06-0011         | 70                        | 50                         | 1.8                    |                      | 213                                          | 0,58                               |
| 06-0051         | 70                        | 50                         | 4                      |                      | 464                                          | 1,25                               |
| 06-0032         | 70                        | 70                         | 3                      |                      | 411                                          | 1,11                               |
| 06-0039         | 70                        | 70                         | 5                      |                      | 675                                          | 1,82                               |
| 06-0066         | 70                        | 70                         | 7                      |                      | 931                                          | 2,51                               |
| 06-0035         | 80                        | 45                         | 1.8                    |                      | 222                                          | 0,60                               |
| 06-0010         | 80                        | 50                         | 2                      |                      | 256                                          | 0,69                               |
| 06-0019         | 80                        | 80                         | 3                      |                      | 471                                          | 1,27                               |
| 06-0034         | 80                        | 80                         | 5                      |                      | 775                                          | 2,09                               |
| 06-0008         | 80                        | 80                         | 6                      |                      | 924                                          | 2,49                               |
| 06-0047         | 80                        | 80                         | 8                      |                      | 1216                                         | 3,29                               |
| 06-0056         | 80                        | 100                        | 3                      |                      | 531                                          | 1,43                               |
| 06-0038         | 80                        | 120                        | 8                      |                      | 1536                                         | 4,15                               |
| 06-0009         | 100                       | 50                         | 2                      |                      | 296                                          | 0,80                               |
| 06-0065         | 100                       | 50                         | 3                      |                      | 441                                          | 1,19                               |
| 06-0025         | 100                       | 50                         | 10                     |                      | 1400                                         | 3,78                               |
| 06-0057         | 100                       | 60                         | 2                      |                      | 316                                          | 0,85                               |
| 06-0050         | 100                       | 60                         | 3                      |                      | 471                                          | 1,28                               |
| 06-0014         | 100                       | 60                         | 5                      |                      | 775                                          | 2,09                               |
| 06-0055         | 100                       | 80                         | 2                      |                      | 356                                          | 0,96                               |
| 06-0013         | 100                       | 100                        | 2                      | *                    | 396                                          | 1,07                               |
| 06-0021         | 100                       | 100                        | 6                      |                      | 1164                                         | 3,14                               |
| 06-0024         | 100                       | 100                        | 10                     |                      | 1900                                         | 5,13                               |
| 06-0059         | 110                       | 50                         | 2                      |                      | 316                                          | 0,85                               |
| 06-0036         | 120                       | 45                         | 1.8                    |                      | 294                                          | 0,79                               |
| 06-0046         | 120                       | 45                         | 2                      |                      | 326                                          | 0,88                               |
| 06-0015         | 120                       | 50                         | 2                      |                      | 336                                          | 0,91                               |
| 06-0043         | 120                       | 60                         | 2                      |                      | 356                                          | 0,96                               |
| 06-0064         | 120                       | 60                         | 5                      |                      | 875                                          | 2,36                               |
| 06-0022         | 140                       | 50                         | 2                      |                      | 376                                          | 1,01                               |
| 06-0058         | 140                       | 60                         | 2                      |                      | 396                                          | 1,07                               |

## U-Profiles (U-Channels)

### U-Profile

07



#### Notes:

\* The weight of each profile is calculated by measuring it's cross-sectional area and multiplying it by the material density. The aluminium density is considered to be 2,70 gr/cm<sup>3</sup>.

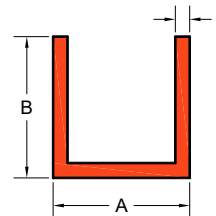
\*\* Alloy and Length is subject to customer's request.

\*\*\* Radii less than 1mm are not stated.

A = Width

B = Height

t = thickness



#### EXPERTS IN ALUMINIUM™

| Profile Code | B (mm) | A (mm) | B (mm) | t (mm) | Additional charge | Area Flaeche (mm <sup>2</sup> ) | Weight Gewicht (Kg/m) |
|--------------|--------|--------|--------|--------|-------------------|---------------------------------|-----------------------|
| 07-0079      | 10     | 10     | 10     | 1.5    |                   | 41                              | 0,11                  |
| 07-0055      | 10     | 10     | 10     | 2      |                   | 52                              | 0,14                  |
| 07-0143      | 15     | 10     | 15     | 2      |                   | 62                              | 0,19                  |
| 07-0085      | 20     | 10     | 20     | 2      |                   | 72                              | 0,25                  |
| 07-0005      | 15     | 15     | 15     | 2      |                   | 82                              | 0,22                  |
| 07-0146      | 20     | 15     | 20     | 1.5    |                   | 71                              | 0,21                  |
| 07-0095      | 20     | 15     | 20     | 2      |                   | 92                              | 0,28                  |
| 07-0070      | 25     | 15     | 25     | 1.5    |                   | 78                              | 0,25                  |
| 07-0037      | 10     | 20     | 10     | 2      |                   | 92                              | 0,19                  |
| 07-0126      | 15     | 20     | 15     | 2      |                   | 102                             | 0,25                  |
| 07-0064      | 20     | 20     | 20     | 1.5    |                   | 86                              | 0,23                  |
| 07-0000      | 20     | 20     | 20     | 2      |                   | 112                             | 0,30                  |
| 07-0084      | 20     | 20     | 20     | 3      |                   | 162                             | 0,44                  |
| 07-0128      | 25     | 20     | 25     | 2      |                   | 122                             | 0,36                  |
| 07-0003      | 30     | 20     | 30     | 2      |                   | 132                             | 0,41                  |
| 07-0121      | 30     | 20     | 30     | 3      |                   | 192                             | 0,60                  |
| 07-0018      | 40     | 20     | 40     | 2      |                   | 152                             | 0,52                  |
| 07-0082      | 40     | 20     | 40     | 2.5    |                   | 188                             | 0,64                  |
| 07-0111      | 40     | 20     | 40     | 4      |                   | 288                             | 0,99                  |
| 07-0110      | 23     | 23     | 23     | 1.5    |                   | 99                              | 0,27                  |
| 07-0063      | 12     | 25     | 12     | 2      |                   | 116                             | 0,24                  |
| 07-0150      | 15     | 25     | 15     | 2      |                   | 122                             | 0,28                  |
| 07-0006      | 20     | 25     | 20     | 2      |                   | 132                             | 0,33                  |
| 07-0158      | 20     | 25     | 20     | 3      |                   | 192                             | 0,48                  |
| 07-0002      | 25     | 25     | 25     | 2      |                   | 142                             | 0,38                  |
| 07-0010      | 25     | 25     | 25     | 3      |                   | 207                             | 0,56                  |
| 07-0077      | 35     | 25     | 35     | 2      |                   | 162                             | 0,49                  |
| 07-0019      | 40     | 25     | 40     | 2      |                   | 172                             | 0,55                  |
| 07-0057      | 15     | 30     | 15     | 2      |                   | 142                             | 0,30                  |
| 07-0001      | 20     | 30     | 20     | 2      |                   | 152                             | 0,36                  |
| 07-0156      | 20     | 30     | 20     | 3      |                   | 222                             | 0,52                  |

| Profile<br>Code | B<br>(mm) | A<br>(mm) | B<br>(mm) | t<br>(mm) | Additional<br>charge | Area<br><i>Flaeche</i><br>(mm <sup>2</sup> ) | Weight<br><i>Gewicht</i><br>(Kg/m) |
|-----------------|-----------|-----------|-----------|-----------|----------------------|----------------------------------------------|------------------------------------|
| 07-0050         | 30        | 30        | 30        | 2         |                      | 172                                          | 0,46                               |
| 07-0004         | 30        | 30        | 30        | 3         |                      | 252                                          | 0,68                               |
| 07-0074         | 35        | 30        | 35        | 2         |                      | 182                                          | 0,52                               |
| 07-0034         | 40        | 30        | 40        | 2         |                      | 192                                          | 0,57                               |
| 07-0042         | 40        | 30        | 40        | 3         |                      | 282                                          | 0,84                               |
| 07-0035         | 50        | 30        | 50        | 3         |                      | 312                                          | 1,00                               |
| 07-0067         | 60        | 30        | 60        | 2         |                      | 232                                          | 0,79                               |
| 07-0097         | 60        | 30        | 60        | 3         |                      | 342                                          | 1,17                               |
| 07-0007         | 20        | 35        | 20        | 2         |                      | 172                                          | 0,38                               |
| 07-0086         | 25        | 35        | 25        | 2         |                      | 182                                          | 0,44                               |
| 07-0016         | 35        | 35        | 35        | 2         |                      | 202                                          | 0,55                               |
| 07-0107         | 35        | 35        | 35        | 3         |                      | 297                                          | 0,80                               |
| 07-0114         | 30        | 36        | 30        | 2         |                      | 196                                          | 0,50                               |
| 07-0109         | 15        | 40        | 15        | 2         |                      | 182                                          | 0,36                               |
| 07-0008         | 20        | 40        | 20        | 2         |                      | 192                                          | 0,41                               |
| 07-0081         | 20        | 40        | 20        | 2.5       |                      | 238                                          | 0,51                               |
| 07-0083         | 20        | 40        | 20        | 3         |                      | 282                                          | 0,60                               |
| 07-0119         | 25        | 40        | 25        | 2         |                      | 202                                          | 0,47                               |
| 07-0104         | 25        | 40        | 25        | 3         |                      | 297                                          | 0,68                               |
| 07-0141         | 30        | 40        | 30        | 2         |                      | 212                                          | 0,52                               |
| 07-0011         | 30        | 40        | 30        | 3         |                      | 312                                          | 0,76                               |
| 07-0051         | 40        | 40        | 40        | 2         |                      | 232                                          | 0,63                               |
| 07-0106         | 40        | 40        | 40        | 2.5       |                      | 288                                          | 0,78                               |
| 07-0020         | 40        | 40        | 40        | 3         |                      | 342                                          | 0,92                               |
| 07-0021         | 40        | 40        | 40        | 4         |                      | 448                                          | 1,21                               |
| 07-0047         | 50        | 40        | 50        | 2         |                      | 252                                          | 0,73                               |
| 07-0160         | 50        | 40        | 50        | 4         |                      | 488                                          | 1,43                               |
| 07-0115         | 60        | 40        | 60        | 4         |                      | 528                                          | 1,65                               |
| 07-0048         | 60        | 40        | 60        | 5         |                      | 650                                          | 2,03                               |
| 07-0122         | 15        | 45        | 15        | 2         |                      | 202                                          | 0,38                               |
| 07-0009         | 20        | 45        | 20        | 2         |                      | 212                                          | 0,44                               |
| 07-0078         | 30        | 45        | 30        | 4         |                      | 448                                          | 1,05                               |
| 07-0133         | 45        | 45        | 45        | 2         |                      | 262                                          | 0,71                               |
| 07-0053         | 20        | 50        | 20        | 2         |                      | 232                                          | 0,47                               |
| 07-0102         | 20        | 50        | 20        | 5         |                      | 550                                          | 1,08                               |
| 07-0108         | 25        | 50        | 25        | 2.5       |                      | 300                                          | 0,64                               |
| 07-0091         | 25        | 50        | 25        | 3         |                      | 357                                          | 0,76                               |
| 07-0012         | 30        | 50        | 30        | 2         |                      | 252                                          | 0,57                               |
| 07-0013         | 30        | 50        | 30        | 3         |                      | 372                                          | 0,84                               |
| 07-0014         | 30        | 50        | 30        | 4         |                      | 488                                          | 1,10                               |
| 07-0092         | 30        | 50        | 30        | 5         |                      | 600                                          | 1,35                               |
| 07-0044         | 40        | 50        | 40        | 4         |                      | 528                                          | 1,32                               |
| 07-0101         | 40        | 50        | 40        | 5         |                      | 650                                          | 1,62                               |
| 07-0088         | 50        | 50        | 50        | 2         |                      | 292                                          | 0,79                               |
| 07-0025         | 50        | 50        | 50        | 3         |                      | 432                                          | 1,17                               |
| 07-0026         | 50        | 50        | 50        | 4         |                      | 568                                          | 1,53                               |
| 07-0027         | 50        | 50        | 50        | 5         |                      | 700                                          | 1,89                               |

| Profile<br>Code | B<br>(mm) | A<br>(mm) | B<br>(mm) | t<br>(mm) | Additional<br>charge | Area<br><i>Flaeche</i><br>(mm <sup>2</sup> ) | Weight<br><i>Gewicht</i><br>(Kg/m) |
|-----------------|-----------|-----------|-----------|-----------|----------------------|----------------------------------------------|------------------------------------|
| 07-0094         | 25        | 55        | 25        | 2         |                      | 262                                          | 0,55                               |
| 07-0096         | 45        | 55        | 45        | 2         |                      | 302                                          | 0,76                               |
| 07-0144         | 50        | 55        | 50        | 2         |                      | 312                                          | 0,82                               |
| 07-0131         | 15        | 60        | 15        | 3         |                      | 387                                          | 0,68                               |
| 07-0049         | 20        | 60        | 20        | 2         |                      | 272                                          | 0,52                               |
| 07-0015         | 30        | 60        | 30        | 3         |                      | 432                                          | 0,92                               |
| 07-0080         | 30        | 60        | 30        | 4         |                      | 568                                          | 1,21                               |
| 07-0127         | 40        | 60        | 40        | 2.5       |                      | 388                                          | 0,91                               |
| 07-0022         | 40        | 60        | 40        | 3         |                      | 462                                          | 1,09                               |
| 07-0023         | 40        | 60        | 40        | 4         |                      | 608                                          | 1,43                               |
| 07-0036         | 40        | 60        | 40        | 5         |                      | 750                                          | 1,76                               |
| 07-0118         | 50        | 60        | 50        | 2         |                      | 332                                          | 0,85                               |
| 07-0112         | 50        | 60        | 50        | 3         |                      | 492                                          | 1,25                               |
| 07-0030         | 60        | 60        | 60        | 3         |                      | 522                                          | 1,41                               |
| 07-0046         | 60        | 60        | 60        | 4         |                      | 688                                          | 1,86                               |
| 07-0031         | 60        | 60        | 60        | 5         |                      | 850                                          | 2,30                               |
| 07-0113         | 25        | 65        | 25        | 2.5       |                      | 375                                          | 0,74                               |
| 07-0099         | 55        | 65        | 55        | 2.5       |                      | 450                                          | 1,15                               |
| 07-0116         | 40        | 70        | 40        | 3         |                      | 522                                          | 1,17                               |
| 07-0147         | 40        | 70        | 40        | 4         |                      | 688                                          | 1,53                               |
| 07-0132         | 70        | 70        | 70        | 5         |                      | 1000                                         | 2,71                               |
| 07-0065         | 80        | 72        | 80        | 5         |                      | 1070                                         | 3,00                               |
| 07-0041         | 20        | 80        | 20        | 2         |                      | 352                                          | 0,63                               |
| 07-0135         | 20        | 80        | 20        | 4         |                      | 688                                          | 1,21                               |
| 07-0052         | 30        | 80        | 30        | 3         |                      | 552                                          | 1,09                               |
| 07-0056         | 40        | 80        | 40        | 3         |                      | 582                                          | 1,25                               |
| 07-0075         | 40        | 80        | 40        | 4         |                      | 768                                          | 1,64                               |
| 07-0137         | 40        | 80        | 40        | 5         |                      | 950                                          | 2,03                               |
| 07-0103         | 40        | 80        | 40        | 6         |                      | 1128                                         | 2,40                               |
| 07-0130         | 45        | 80        | 45        | 6         |                      | 1158                                         | 2,57                               |
| 07-0028         | 50        | 80        | 50        | 3         |                      | 612                                          | 1,41                               |
| 07-0059         | 50        | 80        | 50        | 5         |                      | 1000                                         | 2,30                               |
| 07-0152         | 60        | 80        | 60        | 5         |                      | 1050                                         | 2,56                               |
| 07-0045         | 75        | 80        | 75        | 5         |                      | 1125                                         | 2,97                               |
| 07-0032         | 80        | 80        | 80        | 4         |                      | 928                                          | 2,51                               |
| 07-0076         | 80        | 80        | 80        | 5         |                      | 1150                                         | 3,11                               |
| 07-0090         | 85        | 85        | 85        | 3         |                      | 747                                          | 2,02                               |
| 07-0117         | 40        | 86        | 40        | 3         |                      | 618                                          | 1,30                               |
| 07-0071         | 30        | 90        | 30        | 2         |                      | 412                                          | 0,79                               |
| 07-0098         | 40        | 90        | 40        | 3         |                      | 642                                          | 1,33                               |
| 07-0029         | 50        | 90        | 50        | 3         |                      | 672                                          | 1,49                               |
| 07-0161         | 50        | 90        | 50        | 5         |                      | 1100                                         | 2,43                               |
| 07-0124         | 12        | 100       | 12        | 3         |                      | 618                                          | 0,96                               |
| 07-0040         | 20        | 100       | 20        | 2         |                      | 432                                          | 0,73                               |
| 07-0134         | 30        | 100       | 30        | 3         |                      | 672                                          | 1,25                               |
| 07-0159         | 40        | 100       | 40        | 2         |                      | 472                                          | 0,95                               |
| 07-0017         | 40        | 100       | 40        | 3         |                      | 702                                          | 1,41                               |

| Profile<br>Code | B<br>(mm) | A<br>(mm) | B<br>(mm) | t<br>(mm) | Additional<br>charge | Area<br><i>Flaeche</i><br>(mm <sup>2</sup> ) | Weight<br><i>Gewicht</i><br>(Kg/m) |
|-----------------|-----------|-----------|-----------|-----------|----------------------|----------------------------------------------|------------------------------------|
| 07-0062         | 40        | 100       | 40        | 4         |                      | 928                                          | 1,86                               |
| 07-0058         | 50        | 100       | 50        | 3         |                      | 732                                          | 1,57                               |
| 07-0060         | 50        | 100       | 50        | 4         |                      | 968                                          | 2,07                               |
| 07-0024         | 50        | 100       | 50        | 5         |                      | 1200                                         | 2,57                               |
| 07-0157         | 50        | 100       | 50        | 8         |                      | 1872                                         | 3,97                               |
| 07-0148         | 50        | 100       | 50        | 10        |                      | 2300                                         | 4,86                               |
| 07-0162         | 55        | 100       | 55        | 8         |                      | 1912                                         | 4,19                               |
| 07-0151         | 100       | 100       | 100       | 4         |                      | 1168                                         | 3,15                               |
| 07-0054         | 100       | 100       | 100       | 5         |                      | 1450                                         | 3,92                               |
| 07-0100         | 40        | 106       | 40        | 3         |                      | 738                                          | 1,46                               |
| 07-0120         | 50        | 108       | 50        | 3         |                      | 780                                          | 1,64                               |
| 07-0038         | 20        | 120       | 20        | 2         |                      | 512                                          | 0,84                               |
| 07-0136         | 20        | 120       | 20        | 2.5       |                      | 638                                          | 1,05                               |
| 07-0072         | 30        | 120       | 30        | 2         |                      | 532                                          | 0,95                               |
| 07-0039         | 40        | 120       | 40        | 3         |                      | 822                                          | 1,57                               |
| 07-0163         | 40        | 120       | 40        | 5         |                      | 1350                                         | 2,57                               |
| 07-0149         | 45        | 120       | 45        | 10        |                      | 2650                                         | 5,13                               |
| 07-0093         | 55        | 120       | 55        | 10        |                      | 2750                                         | 5,67                               |
| 07-0068         | 60        | 120       | 60        | 8         |                      | 2272                                         | 4,84                               |
| 07-0138         | 80        | 120       | 80        | 8         |                      | 2432                                         | 5,72                               |
| 07-0061         | 63        | 125       | 63        | 6         |                      | 1806                                         | 3,87                               |
| 07-0089         | 80        | 125       | 80        | 8         |                      | 2512                                         | 5,81                               |
| 07-0073         | 30        | 140       | 30        | 2         |                      | 612                                          | 1,06                               |
| 07-0129         | 40        | 140       | 40        | 3         |                      | 942                                          | 1,74                               |
| 07-0069         | 60        | 140       | 60        | 6         |                      | 1968                                         | 4,02                               |
| 07-9001         | 60        | 140       | 60        | 8         |                      | 2592                                         | 5,27                               |
| 07-0139         | 50        | 150       | 50        | 3         |                      | 1032                                         | 1,98                               |
| 07-0087         | 50        | 150       | 50        | 16        |                      | 5088                                         | 9,42                               |
| 07-0155         | 100       | 150       | 100       | 5         |                      | 1950                                         | 4,59                               |
| 07-0033         | 80        | 160       | 80        | 8         |                      | 3072                                         | 6,57                               |
| 07-0123         | 80        | 160       | 80        | 10        |                      | 3800                                         | 8,13                               |
| 07-0142         | 40        | 200       | 40        | 3         |                      | 1302                                         | 2,22                               |
| 07-0145         | 20        | 220       | 20        | 4         |                      | 1808                                         | 2,72                               |

## Z-Profiles

### Z-Profile

08



#### Notes:

\* The weight of each profile is calculated by measuring it's cross-sectional area and multiplying it by the material density. The aluminium density is considered to be 2,70 gr/cm<sup>3</sup>.

\*\* Alloy and Length is subject to customer's request.

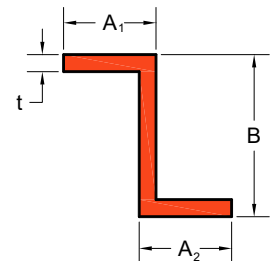
\*\*\* Radii less than 1mm are not stated.

A<sub>1</sub> = Width 1

A<sub>2</sub> = Width 2

B = Height

t = thickness



#### EXPERTS IN ALUMINIUM™

| Profile Code | A <sub>1</sub> (mm) | B (mm) | A <sub>2</sub> (mm) | t (mm) | Additional charge | Area Flaeche (mm <sup>2</sup> ) | Weight Gewicht (Kg/m) |
|--------------|---------------------|--------|---------------------|--------|-------------------|---------------------------------|-----------------------|
| 08-0010      | 15                  | 10     | 15                  | 2      |                   | 72                              | 0,19                  |
| 08-0005      | 15                  | 15     | 15                  | 2      |                   | 82                              | 0,22                  |
| 08-0006      | 15                  | 20     | 15                  | 2      |                   | 92                              | 0,25                  |
| 08-0000      | 20                  | 20     | 20                  | 2      |                   | 112                             | 0,30                  |
| 08-0007      | 25                  | 25     | 25                  | 2      |                   | 142                             | 0,38                  |
| 08-0011      | 25                  | 25     | 25                  | 3      |                   | 207                             | 0,56                  |
| 08-0008      | 30                  | 30     | 30                  | 2      |                   | 172                             | 0,46                  |
| 08-0001      | 30                  | 30     | 30                  | 3      |                   | 252                             | 0,68                  |
| 08-0009      | 40                  | 30     | 40                  | 2      |                   | 212                             | 0,57                  |
| 08-0003      | 30                  | 40     | 30                  | 3      |                   | 282                             | 0,76                  |
| 08-0002      | 40                  | 40     | 40                  | 3      |                   | 342                             | 0,92                  |
| 08-0004      | 18                  | 43     | 18                  | 3      |                   | 219                             | 0,59                  |
| 08-0012      | 30                  | 50     | 30                  | 3      |                   | 312                             | 0,84                  |
| 08-0013      | 40                  | 60     | 40                  | 4      |                   | 528                             | 1,43                  |



## Square tubes

### Vierkantrohre

09



#### Notes:

\* The weight of each profile is calculated by measuring it's cross-sectional area and multiplying it by the material density. The aluminium density is considered to be 2,70 gr/cm<sup>3</sup>.

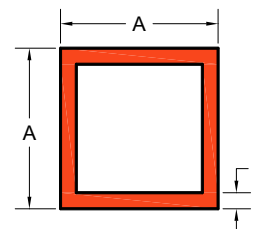
\*\* Alloy and Length is subject to customer's request.

\*\*\* Radii less than 1mm are not stated.

A = Width

A = Height

t = Thickness



#### EXPERTS IN ALUMINIUM™

| Profile Code | A (mm) | t (mm) | Additional charge | Area<br>Fläche<br>(mm <sup>2</sup> ) | Weight<br>Gewicht<br>(Kg/m) |
|--------------|--------|--------|-------------------|--------------------------------------|-----------------------------|
| 09-0054      | 10     | 1.5    |                   | 51                                   | 0,14                        |
| 09-0004      | 15     | 1.5    |                   | 81                                   | 0,22                        |
| 09-0005      | 15     | 2      |                   | 104                                  | 0,28                        |
| 09-0006      | 20     | 1.5    |                   | 111                                  | 0,30                        |
| 09-0010      | 20     | 2      |                   | 144                                  | 0,38                        |
| 09-0051      | 20     | 3      |                   | 204                                  | 0,55                        |
| 09-0007      | 25     | 1.5    |                   | 141                                  | 0,38                        |
| 09-0008      | 25     | 2      |                   | 184                                  | 0,50                        |
| 09-0065      | 25     | 2.5    |                   | 225                                  | 0,61                        |
| 09-0009      | 25     | 3      |                   | 264                                  | 0,71                        |
| 09-0040      | 30     | 1.5    |                   | 171                                  | 0,46                        |
| 09-0000      | 30     | 2      |                   | 224                                  | 0,60                        |
| 09-0001      | 30     | 3      |                   | 324                                  | 0,87                        |
| 09-0066      | 30     | 4      |                   | 416                                  | 1,13                        |
| 09-0059      | 34     | 2      |                   | 256                                  | 0,69                        |
| 09-0002      | 35     | 2      |                   | 264                                  | 0,71                        |
| 09-0049      | 35     | 3      |                   | 384                                  | 1,04                        |
| 09-0050      | 35     | 4      |                   | 496                                  | 1,34                        |
| 09-0003      | 40     | 1.5    |                   | 231                                  | 0,62                        |
| 09-0012      | 40     | 2      |                   | 304                                  | 0,82                        |
| 09-0013      | 40     | 2.5    |                   | 375                                  | 1,01                        |
| 09-0014      | 40     | 3      |                   | 444                                  | 1,20                        |
| 09-0015      | 40     | 4      |                   | 576                                  | 1,56                        |
| 09-0044      | 40     | 5      |                   | 700                                  | 1,89                        |
| 09-0016      | 45     | 2      |                   | 344                                  | 0,93                        |
| 09-0072      | 45     | 4      |                   | 656                                  | 1,77                        |
| 09-0068      | 50     | 1.5    |                   | 291                                  | 0,79                        |
| 09-0017      | 50     | 2      |                   | 384                                  | 1,04                        |
| 09-0056      | 50     | 2.5    |                   | 475                                  | 1,28                        |
| 09-0018      | 50     | 3      |                   | 564                                  | 1,52                        |
| 09-0019      | 50     | 4      |                   | 736                                  | 1,99                        |

| Profile<br>Code | A<br>(mm) | t<br>(mm) | Additional<br>charge | Area<br><i>Flaeche</i><br>(mm <sup>2</sup> ) | Weight<br><i>Gewicht</i><br>(Kg/m) |
|-----------------|-----------|-----------|----------------------|----------------------------------------------|------------------------------------|
| 09-0020         | 50        | 5         |                      | 900                                          | 2,43                               |
| 09-0058         | 55        | 2         |                      | 424                                          | 1,14                               |
| 09-0042         | 60        | 1.5       |                      | 351                                          | 0,95                               |
| 09-0021         | 60        | 2         |                      | 464                                          | 1,25                               |
| 09-0063         | 60        | 2.5       |                      | 575                                          | 1,56                               |
| 09-0022         | 60        | 3         |                      | 684                                          | 1,85                               |
| 09-0023         | 60        | 4         |                      | 896                                          | 2,42                               |
| 09-0046         | 60        | 5         |                      | 1100                                         | 2,97                               |
| 09-0061         | 60        | 6         |                      | 1296                                         | 3,51                               |
| 09-0064         | 65        | 2.5       |                      | 625                                          | 1,69                               |
| 09-0024         | 70        | 2         |                      | 544                                          | 1,47                               |
| 09-0052         | 70        | 3         |                      | 804                                          | 2,17                               |
| 09-0025         | 70        | 4         |                      | 1056                                         | 2,85                               |
| 09-0026         | 80        | 2         | *                    | 624                                          | 1,68                               |
| 09-0027         | 80        | 3         |                      | 924                                          | 2,49                               |
| 09-0028         | 80        | 4         |                      | 1216                                         | 3,28                               |
| 09-0029         | 80        | 5         |                      | 1500                                         | 4,05                               |
| 09-0047         | 80        | 6         |                      | 1776                                         | 4,80                               |
| 09-0070         | 80        | 8         |                      | 2304                                         | 6,22                               |
| 09-0060         | 85        | 2         | *                    | 664                                          | 1,79                               |
| 09-0053         | 85        | 4         |                      | 1296                                         | 3,50                               |
| 09-0039         | 89        | 3.5       |                      | 1197                                         | 3,23                               |
| 09-0030         | 90        | 4         |                      | 1376                                         | 3,72                               |
| 09-0043         | 90        | 5         |                      | 1700                                         | 4,59                               |
| 09-0031         | 100       | 2         | *                    | 784                                          | 2,12                               |
| 09-0032         | 100       | 3         |                      | 1164                                         | 3,14                               |
| 09-0033         | 100       | 4         |                      | 1536                                         | 4,15                               |
| 09-0034         | 100       | 5         |                      | 1900                                         | 5,13                               |
| 09-0057         | 100       | 6         |                      | 2256                                         | 6,09                               |
| 09-0062         | 100       | 10        |                      | 3600                                         | 9,76                               |
| 09-0069         | 110       | 2         | *                    | 864                                          | 2,33                               |
| 09-0038         | 120       | 2         | *                    | 944                                          | 2,55                               |
| 09-0035         | 120       | 2.5       | *                    | 1175                                         | 3,17                               |
| 09-0036         | 120       | 4         |                      | 1856                                         | 5,01                               |
| 09-0037         | 120       | 5         |                      | 2300                                         | 6,21                               |
| 09-0071         | 120       | 8         |                      | 3584                                         | 9,68                               |
| 09-0048         | 145       | 3         | *                    | 1704                                         | 4,60                               |
| 09-0055         | 150       | 3         | *                    | 1764                                         | 4,76                               |
| 09-0073         | 150       | 4         |                      | 2336                                         | 6,31                               |
| 09-0041         | 150       | 5         |                      | 2900                                         | 7,83                               |
| 09-0067         | 150       | 8         |                      | 4544                                         | 12,27                              |

## Rectangular tubes

### Rechteckrohre

10



#### Notes:

\* The weight of each profile is calculated by measuring it's cross-sectional area and multiplying it by the material density. The aluminium density is considered to be 2,70 gr/cm<sup>3</sup>.

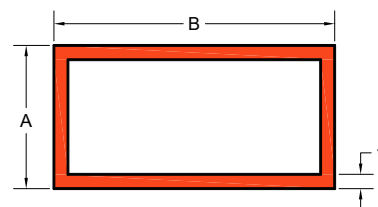
\*\* Alloy and Length is subject to customer's request.

\*\*\* Radii less than 1mm are not stated.

A=Width

B=Height

t=thickness



#### EXPERTS IN ALUMINIUM™

| Profile Code | A (mm) | B (mm) | t (mm) | Additional charge | Area Flaeche (mm <sup>2</sup> ) | Weight Gewicht (Kg/m) |
|--------------|--------|--------|--------|-------------------|---------------------------------|-----------------------|
| 10-0100      | 20     | 10     | 1.2    |                   | 66                              | 0,18                  |
| 10-0014      | 20     | 10     | 1.5    |                   | 81                              | 0,22                  |
| 10-0015      | 20     | 10     | 2      |                   | 104                             | 0,28                  |
| 10-0131      | 20     | 15     | 1.5    |                   | 96                              | 0,26                  |
| 10-0016      | 20     | 15     | 2      |                   | 124                             | 0,33                  |
| 10-0195      | 25     | 10     | 2      |                   | 124                             | 0,34                  |
| 10-0017      | 25     | 15     | 1.5    |                   | 111                             | 0,30                  |
| 10-0018      | 25     | 15     | 2      |                   | 144                             | 0,39                  |
| 10-0134      | 25     | 20     | 1.5    |                   | 126                             | 0,34                  |
| 10-0167      | 25     | 20     | 2      |                   | 164                             | 0,44                  |
| 10-0000      | 30     | 10     | 1.5    |                   | 111                             | 0,30                  |
| 10-0097      | 30     | 10     | 2      |                   | 144                             | 0,39                  |
| 10-0099      | 30     | 15     | 1.5    |                   | 126                             | 0,34                  |
| 10-0001      | 30     | 15     | 2      |                   | 164                             | 0,44                  |
| 10-0002      | 30     | 20     | 1.5    |                   | 141                             | 0,38                  |
| 10-0003      | 30     | 20     | 2      |                   | 184                             | 0,50                  |
| 10-0148      | 30     | 20     | 3      |                   | 264                             | 0,71                  |
| 10-0181      | 30     | 25     | 2      |                   | 204                             | 0,55                  |
| 10-0145      | 30     | 25     | 3      |                   | 294                             | 0,79                  |
| 10-0133      | 35     | 15     | 2      |                   | 184                             | 0,50                  |
| 10-0154      | 35     | 20     | 1.5    |                   | 156                             | 0,42                  |
| 10-0004      | 35     | 20     | 2      |                   | 204                             | 0,55                  |
| 10-0168      | 35     | 25     | 1.5    |                   | 171                             | 0,46                  |
| 10-0125      | 35     | 25     | 2      |                   | 224                             | 0,60                  |
| 10-0226      | 35     | 30     | 3      |                   | 354                             | 0,96                  |
| 10-0005      | 40     | 10     | 2      |                   | 184                             | 0,50                  |
| 10-0209      | 40     | 15     | 1.5    |                   | 156                             | 0,42                  |
| 10-0006      | 40     | 15     | 2      |                   | 204                             | 0,55                  |
| 10-0019      | 40     | 20     | 1.2    |                   | 138                             | 0,37                  |
| 10-0007      | 40     | 20     | 1.5    |                   | 171                             | 0,46                  |
| 10-0008      | 40     | 20     | 2      |                   | 224                             | 0,60                  |

| Profile<br>Code | A<br>(mm) | B<br>(mm) | t<br>(mm) | Additional<br>charge | Area<br><i>Flaeche</i><br>(mm <sup>2</sup> ) | Weight<br><i>Gewicht</i><br>(Kg/m) |
|-----------------|-----------|-----------|-----------|----------------------|----------------------------------------------|------------------------------------|
| 10-9003         | 40        | 20        | 2.5       |                      | 275                                          | 0,75                               |
| 10-0020         | 40        | 20        | 3         |                      | 324                                          | 0,87                               |
| 10-0178         | 40        | 20        | 4         |                      | 416                                          | 1,13                               |
| 10-0009         | 40        | 25        | 1.5       |                      | 186                                          | 0,50                               |
| 10-0010         | 40        | 25        | 2         |                      | 244                                          | 0,66                               |
| 10-0127         | 40        | 25        | 3         |                      | 354                                          | 0,96                               |
| 10-0196         | 40        | 30        | 1.5       |                      | 201                                          | 0,54                               |
| 10-0011         | 40        | 30        | 2         |                      | 264                                          | 0,71                               |
| 10-0201         | 40        | 30        | 2.5       |                      | 325                                          | 0,88                               |
| 10-0021         | 40        | 30        | 3         |                      | 384                                          | 1,04                               |
| 10-0132         | 40        | 30        | 4         |                      | 496                                          | 1,34                               |
| 10-0152         | 45        | 20        | 2         |                      | 244                                          | 0,66                               |
| 10-0105         | 45        | 25        | 2         |                      | 264                                          | 0,71                               |
| 10-0225         | 45        | 25        | 3         |                      | 384                                          | 1,04                               |
| 10-0112         | 45        | 34        | 3         |                      | 438                                          | 1,18                               |
| 10-0022         | 50        | 15        | 2         |                      | 244                                          | 0,66                               |
| 10-0120         | 50        | 20        | 1.5       |                      | 201                                          | 0,54                               |
| 10-0012         | 50        | 20        | 2         |                      | 264                                          | 0,71                               |
| 10-0023         | 50        | 20        | 3         |                      | 384                                          | 1,04                               |
| 10-0185         | 50        | 20        | 4         |                      | 496                                          | 1,34                               |
| 10-0126         | 50        | 25        | 1.5       |                      | 216                                          | 0,58                               |
| 10-0013         | 50        | 25        | 2         |                      | 284                                          | 0,77                               |
| 10-0232         | 50        | 25        | 2.5       |                      | 350                                          | 0,95                               |
| 10-0110         | 50        | 25        | 3         |                      | 414                                          | 1,12                               |
| 10-0221         | 50        | 30        | 1.5       |                      | 231                                          | 0,62                               |
| 10-0024         | 50        | 30        | 2         |                      | 304                                          | 0,82                               |
| 10-0159         | 50        | 30        | 2.5       |                      | 375                                          | 1,01                               |
| 10-0025         | 50        | 30        | 3         |                      | 444                                          | 1,20                               |
| 10-0224         | 50        | 30        | 4         |                      | 576                                          | 1,56                               |
| 10-0146         | 50        | 34        | 3         |                      | 468                                          | 1,26                               |
| 10-0026         | 50        | 40        | 2         |                      | 344                                          | 0,93                               |
| 10-0027         | 50        | 40        | 2.5       |                      | 425                                          | 1,15                               |
| 10-0028         | 50        | 40        | 3         |                      | 504                                          | 1,36                               |
| 10-0029         | 50        | 40        | 4         |                      | 656                                          | 1,77                               |
| 10-0210         | 50        | 45        | 2         |                      | 364                                          | 0,98                               |
| 10-0206         | 55        | 35        | 2         |                      | 344                                          | 0,93                               |
| 10-0211         | 55        | 50        | 3         |                      | 594                                          | 1,60                               |
| 10-0143         | 60        | 15        | 2         |                      | 284                                          | 0,77                               |
| 10-9004         | 60        | 18        | 1.5       |                      | 225                                          | 0,61                               |
| 10-0030         | 60        | 20        | 1.5       |                      | 231                                          | 0,62                               |
| 10-0031         | 60        | 20        | 2         |                      | 304                                          | 0,82                               |
| 10-0135         | 60        | 20        | 3         |                      | 444                                          | 1,20                               |
| 10-0032         | 60        | 20        | 4         |                      | 576                                          | 1,56                               |
| 10-0197         | 60        | 25        | 1.5       |                      | 246                                          | 0,67                               |
| 10-0033         | 60        | 25        | 2         |                      | 324                                          | 0,87                               |
| 10-0115         | 60        | 25        | 3         |                      | 474                                          | 1,28                               |
| 10-0111         | 60        | 30        | 1.5       |                      | 261                                          | 0,70                               |

| Profile<br>Code | A<br>(mm) | B<br>(mm) | t<br>(mm) | Additional<br>charge | Area<br><i>Flaeche</i><br>(mm <sup>2</sup> ) | Weight<br><i>Gewicht</i><br>(Kg/m) |
|-----------------|-----------|-----------|-----------|----------------------|----------------------------------------------|------------------------------------|
| 10-0034         | 60        | 30        | 2         |                      | 344                                          | 0,93                               |
| 10-0035         | 60        | 30        | 3         |                      | 504                                          | 1,36                               |
| 10-0036         | 60        | 30        | 4         |                      | 656                                          | 1,77                               |
| 10-0140         | 60        | 34        | 3         |                      | 528                                          | 1,43                               |
| 10-0037         | 60        | 40        | 2         |                      | 384                                          | 1,04                               |
| 10-0038         | 60        | 40        | 2.5       |                      | 475                                          | 1,28                               |
| 10-0039         | 60        | 40        | 3         |                      | 564                                          | 1,52                               |
| 10-0040         | 60        | 40        | 4         |                      | 736                                          | 1,99                               |
| 10-0165         | 60        | 40        | 5         |                      | 900                                          | 2,43                               |
| 10-0138         | 60        | 50        | 2         |                      | 424                                          | 1,14                               |
| 10-0041         | 60        | 50        | 3         |                      | 624                                          | 1,68                               |
| 10-0042         | 60        | 50        | 4         |                      | 816                                          | 2,20                               |
| 10-0194         | 60        | 50        | 5         |                      | 1000                                         | 2,71                               |
| 10-0155         | 65        | 20        | 2         |                      | 324                                          | 0,88                               |
| 10-0149         | 70        | 20        | 1.5       |                      | 261                                          | 0,70                               |
| 10-0137         | 70        | 20        | 2         |                      | 344                                          | 0,93                               |
| 10-0190         | 70        | 25        | 2.5       |                      | 450                                          | 1,22                               |
| 10-0235         | 70        | 25        | 3         |                      | 534                                          | 1,44                               |
| 10-0213         | 70        | 30        | 2         |                      | 384                                          | 1,04                               |
| 10-0160         | 70        | 30        | 3         |                      | 564                                          | 1,52                               |
| 10-0043         | 70        | 40        | 3         |                      | 624                                          | 1,69                               |
| 10-0163         | 70        | 40        | 4         |                      | 816                                          | 2,20                               |
| 10-0220         | 70        | 50        | 3         |                      | 684                                          | 1,85                               |
| 10-0189         | 70        | 50        | 4         |                      | 896                                          | 2,43                               |
| 10-0164         | 75        | 35        | 2.5       |                      | 525                                          | 1,42                               |
| 10-0156         | 75        | 45        | 2         |                      | 464                                          | 1,25                               |
| 10-0186         | 75        | 50        | 3         |                      | 714                                          | 1,93                               |
| 10-9005         | 80        | 18        | 1.5       |                      | 285                                          | 0,77                               |
| 10-0192         | 80        | 18        | 2         |                      | 376                                          | 1,02                               |
| 10-0044         | 80        | 20        | 1.5       |                      | 291                                          | 0,79                               |
| 10-0045         | 80        | 20        | 2         |                      | 384                                          | 1,04                               |
| 10-0170         | 80        | 25        | 2         |                      | 404                                          | 1,09                               |
| 10-0180         | 80        | 25        | 2.5       |                      | 500                                          | 1,35                               |
| 10-0046         | 80        | 30        | 2         |                      | 424                                          | 1,15                               |
| 10-0047         | 80        | 30        | 3         |                      | 624                                          | 1,69                               |
| 10-0169         | 80        | 30        | 4         |                      | 816                                          | 2,20                               |
| 10-0048         | 80        | 40        | 1.5       |                      | 351                                          | 0,95                               |
| 10-0049         | 80        | 40        | 2         |                      | 464                                          | 1,25                               |
| 10-0050         | 80        | 40        | 2.5       |                      | 575                                          | 1,55                               |
| 10-0051         | 80        | 40        | 3         |                      | 684                                          | 1,85                               |
| 10-0052         | 80        | 40        | 4         |                      | 896                                          | 2,42                               |
| 10-0188         | 80        | 40        | 6         |                      | 1296                                         | 3,51                               |
| 10-0053         | 80        | 50        | 2         |                      | 504                                          | 1,36                               |
| 10-0054         | 80        | 50        | 3         |                      | 744                                          | 2,01                               |
| 10-0055         | 80        | 50        | 4         |                      | 976                                          | 2,64                               |
| 10-0212         | 80        | 50        | 5         |                      | 1200                                         | 3,24                               |
| 10-0222         | 80        | 60        | 2         |                      | 544                                          | 1,47                               |

| Profile<br>Code | A<br>(mm) | B<br>(mm) | t<br>(mm) | Additional<br>charge | Area<br><i>Flaeche</i><br>(mm <sup>2</sup> ) | Weight<br><i>Gewicht</i><br>(Kg/m) |
|-----------------|-----------|-----------|-----------|----------------------|----------------------------------------------|------------------------------------|
| 10-0173         | 80        | 60        | 2.5       |                      | 675                                          | 1,82                               |
| 10-0056         | 80        | 60        | 3         |                      | 804                                          | 2,17                               |
| 10-0057         | 80        | 60        | 4         |                      | 1056                                         | 2,85                               |
| 10-0203         | 80        | 60        | 5         |                      | 1300                                         | 3,52                               |
| 10-0128         | 80        | 70        | 5         |                      | 1400                                         | 3,78                               |
| 10-0123         | 85        | 30        | 2         |                      | 444                                          | 1,20                               |
| 10-0117         | 90        | 40        | 3         |                      | 744                                          | 2,01                               |
| 10-0219         | 90        | 50        | 3         |                      | 804                                          | 2,17                               |
| 10-9006         | 100       | 18        | 1.5       |                      | 345                                          | 0,93                               |
| 10-0124         | 100       | 18        | 1.8       |                      | 412                                          | 1,11                               |
| 10-0151         | 100       | 18        | 2         |                      | 456                                          | 1,23                               |
| 10-0227         | 100       | 20        | 1.5       |                      | 351                                          | 0,95                               |
| 10-0058         | 100       | 20        | 2         |                      | 464                                          | 1,25                               |
| 10-0059         | 100       | 25        | 2         |                      | 484                                          | 1,31                               |
| 10-0104         | 100       | 30        | 2         |                      | 504                                          | 1,36                               |
| 10-0193         | 100       | 30        | 2.5       |                      | 625                                          | 1,69                               |
| 10-0060         | 100       | 30        | 3         |                      | 744                                          | 2,01                               |
| 10-0119         | 100       | 40        | 2         |                      | 544                                          | 1,47                               |
| 10-0200         | 100       | 40        | 2.5       |                      | 675                                          | 1,83                               |
| 10-0061         | 100       | 40        | 3         |                      | 804                                          | 2,17                               |
| 10-0062         | 100       | 40        | 4         |                      | 1056                                         | 2,85                               |
| 10-0063         | 100       | 50        | 2         |                      | 584                                          | 1,58                               |
| 10-0064         | 100       | 50        | 3         |                      | 864                                          | 2,33                               |
| 10-0065         | 100       | 50        | 4         |                      | 1136                                         | 3,07                               |
| 10-0102         | 100       | 50        | 5         |                      | 1400                                         | 3,78                               |
| 10-0177         | 100       | 60        | 2         |                      | 624                                          | 1,68                               |
| 10-0118         | 100       | 60        | 2.5       |                      | 775                                          | 2,09                               |
| 10-0066         | 100       | 60        | 3         |                      | 924                                          | 2,50                               |
| 10-0067         | 100       | 60        | 4         |                      | 1216                                         | 3,28                               |
| 10-0136         | 100       | 60        | 5         |                      | 1500                                         | 4,05                               |
| 10-0068         | 100       | 80        | 3         |                      | 1044                                         | 2,82                               |
| 10-0229         | 100       | 80        | 4         |                      | 1376                                         | 3,72                               |
| 10-0174         | 100       | 80        | 5         |                      | 1700                                         | 4,59                               |
| 10-9007         | 120       | 18        | 1.5       |                      | 405                                          | 1,09                               |
| 10-0108         | 120       | 18        | 2         |                      | 536                                          | 1,45                               |
| 10-0069         | 120       | 20        | 2         |                      | 544                                          | 1,47                               |
| 10-0176         | 120       | 30        | 2         |                      | 584                                          | 1,58                               |
| 10-0121         | 120       | 30        | 3         |                      | 864                                          | 2,33                               |
| 10-0070         | 120       | 40        | 2         |                      | 624                                          | 1,68                               |
| 10-0191         | 120       | 40        | 2.5       |                      | 775                                          | 2,10                               |
| 10-0207         | 120       | 40        | 3         |                      | 924                                          | 2,49                               |
| 10-0071         | 120       | 40        | 4         |                      | 1216                                         | 3,28                               |
| 10-0182         | 120       | 50        | 2         |                      | 664                                          | 1,80                               |
| 10-0109         | 120       | 50        | 3         |                      | 984                                          | 2,66                               |
| 10-0072         | 120       | 50        | 4         |                      | 1296                                         | 3,50                               |
| 10-0175         | 120       | 60        | 1.5       | *                    | 531                                          | 1,43                               |
| 10-0228         | 120       | 60        | 2         | *                    | 704                                          | 1,90                               |

| Profile<br>Code | A<br>(mm) | B<br>(mm) | t<br>(mm) | Additional<br>charge | Area<br><i>Flaeche</i><br>(mm <sup>2</sup> ) | Weight<br><i>Gewicht</i><br>(Kg/m) |
|-----------------|-----------|-----------|-----------|----------------------|----------------------------------------------|------------------------------------|
| 10-0073         | 120       | 60        | 3         |                      | 1044                                         | 2,82                               |
| 10-0074         | 120       | 60        | 4         |                      | 1376                                         | 3,72                               |
| 10-0075         | 120       | 80        | 3         |                      | 1164                                         | 3,14                               |
| 10-0218         | 120       | 80        | 4         |                      | 1536                                         | 4,15                               |
| 10-0204         | 120       | 80        | 6         |                      | 2256                                         | 6,11                               |
| 10-0147         | 120       | 90        | 2         | *                    | 824                                          | 2,22                               |
| 10-9002         | 120       | 100       | 8         |                      | 3264                                         | 8,85                               |
| 10-0208         | 128       | 75        | 4         |                      | 1560                                         | 4,21                               |
| 10-0183         | 130       | 20        | 2         |                      | 584                                          | 1,58                               |
| 10-0113         | 130       | 30        | 3         |                      | 924                                          | 2,50                               |
| 10-0076         | 130       | 50        | 4         |                      | 1376                                         | 3,72                               |
| 10-0129         | 130       | 50        | 5         |                      | 1700                                         | 4,59                               |
| 10-0230         | 130       | 60        | 3         |                      | 1104                                         | 2,98                               |
| 10-0077         | 140       | 18        | 2         |                      | 616                                          | 1,66                               |
| 10-0217         | 140       | 20        | 3         |                      | 924                                          | 2,50                               |
| 10-0078         | 140       | 40        | 4         |                      | 1376                                         | 3,72                               |
| 10-0233         | 140       | 50        | 4         |                      | 1456                                         | 3,93                               |
| 10-0098         | 140       | 60        | 2.5       |                      | 975                                          | 2,63                               |
| 10-0114         | 140       | 60        | 4         |                      | 1536                                         | 4,15                               |
| 10-0130         | 140       | 60        | 8         |                      | 2944                                         | 7,95                               |
| 10-0236         | 140       | 70        | 5         |                      | 2000                                         | 5,40                               |
| 10-0079         | 140       | 80        | 4         |                      | 1696                                         | 4,58                               |
| 10-0101         | 150       | 18        | 2         |                      | 656                                          | 1,77                               |
| 10-0179         | 150       | 20        | 2         |                      | 664                                          | 1,80                               |
| 10-0107         | 150       | 30        | 2         |                      | 704                                          | 1,90                               |
| 10-0103         | 150       | 30        | 2.5       |                      | 875                                          | 2,36                               |
| 10-0231         | 150       | 40        | 3         |                      | 1104                                         | 2,98                               |
| 10-0080         | 150       | 40        | 4         |                      | 1456                                         | 3,93                               |
| 10-0081         | 150       | 50        | 2         |                      | 784                                          | 2,12                               |
| 10-0106         | 150       | 50        | 3         |                      | 1164                                         | 3,14                               |
| 10-0082         | 150       | 50        | 4         |                      | 1536                                         | 4,15                               |
| 10-0139         | 150       | 50        | 5         |                      | 1900                                         | 5,13                               |
| 10-0122         | 150       | 50        | 6         |                      | 2256                                         | 6,09                               |
| 10-0083         | 150       | 60        | 3         |                      | 1224                                         | 3,31                               |
| 10-0161         | 150       | 60        | 4         |                      | 1616                                         | 4,36                               |
| 10-0084         | 150       | 60        | 5         |                      | 2000                                         | 5,40                               |
| 10-0158         | 150       | 80        | 4         |                      | 1776                                         | 4,80                               |
| 10-0085         | 150       | 100       | 3         | *                    | 1464                                         | 3,95                               |
| 10-0214         | 150       | 100       | 8         |                      | 3744                                         | 10,11                              |
| 10-0141         | 150       | 120       | 5         |                      | 2600                                         | 7,02                               |
| 10-0086         | 160       | 40        | 2         | *                    | 784                                          | 2,12                               |
| 10-0162         | 160       | 40        | 4         |                      | 1536                                         | 4,15                               |
| 10-0087         | 160       | 60        | 4         |                      | 1696                                         | 4,58                               |
| 10-0088         | 160       | 60        | 5         |                      | 2100                                         | 5,67                               |
| 10-0089         | 160       | 80        | 4         |                      | 1856                                         | 5,01                               |
| 10-0166         | 180       | 18        | 2         |                      | 776                                          | 2,10                               |
| 10-0199         | 180       | 40        | 2.5       | *                    | 1075                                         | 2,91                               |

| Profile<br>Code | A<br>(mm) | B<br>(mm) | t<br>(mm) | Additional<br>charge | Area<br><i>Flaeche</i><br>(mm <sup>2</sup> ) | Weight<br><i>Gewicht</i><br>(Kg/m) |
|-----------------|-----------|-----------|-----------|----------------------|----------------------------------------------|------------------------------------|
| 10-0090         | 180       | 40        | 4         |                      | 1696                                         | 4,58                               |
| 10-0091         | 180       | 50        | 4         |                      | 1776                                         | 4,80                               |
| 10-0092         | 180       | 60        | 3         |                      | 1404                                         | 3,79                               |
| 10-0234         | 180       | 60        | 4         |                      | 1856                                         | 5,01                               |
| 10-0093         | 180       | 80        | 4         |                      | 2016                                         | 5,44                               |
| 10-0187         | 180       | 80        | 6         |                      | 2976                                         | 8,06                               |
| 10-0142         | 200       | 18        | 2         |                      | 856                                          | 2,31                               |
| 10-0198         | 200       | 20        | 2         |                      | 864                                          | 2,34                               |
| 10-0202         | 200       | 25        | 2         |                      | 884                                          | 2,40                               |
| 10-0153         | 200       | 30        | 2.8       |                      | 1257                                         | 3,39                               |
| 10-0116         | 200       | 40        | 3         |                      | 1404                                         | 3,79                               |
| 10-0094         | 200       | 50        | 2.5       |                      | 1225                                         | 3,31                               |
| 10-0216         | 200       | 50        | 3         |                      | 1464                                         | 3,95                               |
| 10-0095         | 200       | 50        | 4         |                      | 1936                                         | 5,23                               |
| 10-0205         | 200       | 60        | 3         |                      | 1524                                         | 4,13                               |
| 10-0096         | 200       | 60        | 4         |                      | 2016                                         | 5,44                               |
| 10-0144         | 200       | 65        | 3         |                      | 1554                                         | 4,20                               |
| 10-0172         | 200       | 80        | 4         |                      | 2176                                         | 5,88                               |
| 10-0171         | 200       | 100       | 4         |                      | 2336                                         | 6,31                               |
| 10-0223         | 200       | 100       | 5         |                      | 2900                                         | 7,83                               |



## Round tubes

### Rundrohre

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#### Notes:

\* The weight of each profile is calculated by measuring it's cross-sectional area and multiplying it by the material density. The aluminium density is considered to be 2,70 gr/cm<sup>3</sup>.

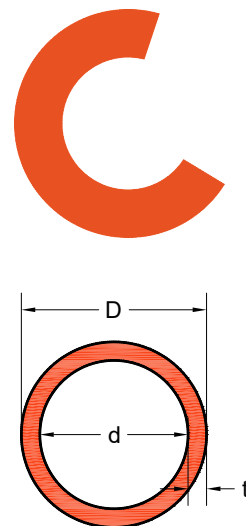
\*\* Alloy and Length is subject to customer's request.

\*\*\* Radii less than 1mm are not stated.

D=Outer Diameter

d=Inner diameter

t=thickness



#### EXPERTS IN ALUMINIUM™

| Profile Code | D (mm) | d (mm) | t (mm) | Additional charge         | Area Flaeche (mm <sup>2</sup> ) | Weight Gewicht (Kg/m) |
|--------------|--------|--------|--------|---------------------------|---------------------------------|-----------------------|
| 11-0073      | 8      | 6      | 1      | * THICK. ACC. TO EN 755-9 | 22                              | 0,06                  |
| 11-0167      | 8      | 5      | 1.5    | *                         | 31                              | 0,08                  |
| 11-0078      | 10     | 8      | 1      | * THICK. ACC. TO EN 755-9 | 28                              | 0,08                  |
| 11-0125      | 10     | 7      | 1.5    |                           | 40                              | 0,11                  |
| 11-0061      | 10     | 6      | 2      |                           | 50                              | 0,14                  |
| 11-0170      | 10     | 5      | 2.5    |                           | 59                              | 0,16                  |
| 11-0136      | 10     | 4      | 3      |                           | 66                              | 0,18                  |
| 11-0145      | 11     | 9      | 1      | * THICK. ACC. TO EN 755-9 | 31                              | 0,09                  |
| 11-0091      | 12     | 10     | 1      | *                         | 35                              | 0,09                  |
| 11-0157      | 12     | 9      | 1.5    | *                         | 49                              | 0,13                  |
| 11-0062      | 12     | 8      | 2      |                           | 63                              | 0,17                  |
| 11-0203      | 12     | 6      | 3      |                           | 85                              | 0,23                  |
| 11-0117      | 13     | 11     | 1      | * THICK. ACC. TO EN 755-9 | 38                              | 0,10                  |
| 11-0232      | 13     | 10     | 1.5    | *                         | 54                              | 0,15                  |
| 11-0108      | 13     | 9      | 2      |                           | 69                              | 0,19                  |
| 11-0233      | 13     | 7      | 3      |                           | 94                              | 0,26                  |
| 11-0129      | 14     | 12     | 1      | * THICK. ACC. TO EN 755-9 | 41                              | 0,11                  |
| 11-0072      | 14     | 10     | 2      |                           | 75                              | 0,20                  |
| 11-0077      | 15     | 13     | 1      | * THICK. ACC. TO EN 755-9 | 44                              | 0,12                  |
| 11-0223      | 15     | 12     | 1.5    |                           | 64                              | 0,17                  |
| 11-0090      | 15     | 11     | 2      |                           | 82                              | 0,22                  |
| 11-0164      | 15     | 7      | 4      |                           | 138                             | 0,37                  |
| 11-9004      | 16     | 14     | 1      | * THICK. ACC. TO EN 755-9 | 47                              | 0,13                  |
| 11-0242      | 16     | 13     | 1.5    |                           | 68                              | 0,18                  |
| 11-0063      | 16     | 12     | 2      |                           | 88                              | 0,24                  |
| 11-0096      | 16     | 11     | 2.5    |                           | 106                             | 0,29                  |
| 11-0144      | 16     | 10     | 3      |                           | 123                             | 0,33                  |
| 11-0146      | 17     | 10     | 3.5    |                           | 148                             | 0,40                  |
| 11-0224      | 18     | 16     | 1      | *                         | 53                              | 0,14                  |
| 11-0217      | 18     | 15     | 1.5    |                           | 78                              | 0,21                  |
| 11-0070      | 18     | 14     | 2      |                           | 101                             | 0,27                  |

| Profile Code | D (mm) | d (mm) | t (mm) | Additional charge         | Area<br><i>Flaeche</i><br>(mm <sup>2</sup> ) | Weight<br><i>Gewicht</i><br>(Kg/m) |
|--------------|--------|--------|--------|---------------------------|----------------------------------------------|------------------------------------|
| 11-0220      | 18     | 12     | 3      |                           | 141                                          | 0,38                               |
| 11-0131      | 19     | 17     | 1      | * THICK. ACC. TO EN 755-9 | 57                                           | 0,15                               |
| 11-0158      | 19     | 16     | 1.5    |                           | 82                                           | 0,22                               |
| 11-0133      | 19     | 15     | 2      |                           | 107                                          | 0,29                               |
| 11-0107      | 20     | 18     | 1      | * THICK. ACC. TO EN 755-9 | 60                                           | 0,16                               |
| 11-0082      | 20     | 17     | 1.5    |                           | 87                                           | 0,24                               |
| 11-0000      | 20     | 16     | 2      |                           | 113                                          | 0,31                               |
| 11-0149      | 20     | 15     | 2.5    |                           | 137                                          | 0,37                               |
| 11-0001      | 20     | 14     | 3      |                           | 160                                          | 0,43                               |
| 11-0067      | 20     | 12     | 4      |                           | 201                                          | 0,54                               |
| 11-0075      | 20     | 10     | 5      |                           | 236                                          | 0,64                               |
| 11-0115      | 22     | 20     | 1      | * THICK. ACC. TO EN 755-9 | 66                                           | 0,18                               |
| 11-0187      | 22     | 19     | 1.5    |                           | 97                                           | 0,26                               |
| 11-0074      | 22     | 18     | 2      |                           | 126                                          | 0,34                               |
| 11-0253      | 22     | 17     | 2.5    |                           | 153                                          | 0,41                               |
| 11-0245      | 22     | 16     | 3      |                           | 179                                          | 0,48                               |
| 11-0199      | 22     | 14     | 4      |                           | 226                                          | 0,61                               |
| 11-0216      | 22     | 12     | 5      |                           | 267                                          | 0,72                               |
| 11-9005      | 23     | 21     | 1      | * THICK. ACC. TO EN 755-9 | 69                                           | 0,19                               |
| 11-0184      | 24     | 21     | 1.5    |                           | 106                                          | 0,29                               |
| 11-0097      | 25     | 23     | 1      | * THICK. ACC. TO EN 755-9 | 75                                           | 0,20                               |
| 11-9006      | 25     | 22,6   | 1.2    | * THICK. ACC. TO EN 755-9 | 90                                           | 0,24                               |
| 11-0069      | 25     | 22     | 1.5    |                           | 111                                          | 0,30                               |
| 11-0002      | 25     | 21     | 2      |                           | 145                                          | 0,39                               |
| 11-0161      | 25     | 20     | 2.5    |                           | 177                                          | 0,48                               |
| 11-0003      | 25     | 19     | 3      |                           | 207                                          | 0,56                               |
| 11-0084      | 25     | 15     | 5      |                           | 314                                          | 0,85                               |
| 11-9018      | 25     | 13     | 6      |                           | 358                                          | 0,97                               |
| 11-0238      | 27     | 24     | 1.5    |                           | 120                                          | 0,32                               |
| 11-0168      | 27     | 23     | 2      |                           | 157                                          | 0,43                               |
| 11-0098      | 28     | 26     | 1      | * THICK. ACC. TO EN 755-9 | 85                                           | 0,23                               |
| 11-0175      | 28     | 25     | 1.5    |                           | 125                                          | 0,34                               |
| 11-0086      | 28     | 24     | 2      |                           | 163                                          | 0,44                               |
| 11-0221      | 28     | 20     | 4      |                           | 302                                          | 0,81                               |
| 11-0185      | 28     | 18     | 5      |                           | 361                                          | 0,98                               |
| 11-0080      | 30     | 27     | 1.5    |                           | 134                                          | 0,36                               |
| 11-0004      | 30     | 26     | 2      |                           | 176                                          | 0,48                               |
| 11-0166      | 30     | 25     | 2.5    |                           | 216                                          | 0,58                               |
| 11-0005      | 30     | 24     | 3      |                           | 254                                          | 0,69                               |
| 11-0132      | 30     | 22     | 4      |                           | 327                                          | 0,88                               |
| 11-0011      | 30     | 20     | 5      |                           | 393                                          | 1,06                               |
| 11-0237      | 30     | 15     | 7.5    |                           | 530                                          | 1,43                               |
| 11-0251      | 30     | 10     | 10     |                           | 628                                          | 1,70                               |
| 11-0249      | 31     | 28     | 1.5    |                           | 139                                          | 0,38                               |
| 11-0099      | 32     | 30     | 1      | * THICK. ACC. TO EN 755-9 | 97                                           | 0,26                               |
| 11-0151      | 32     | 29     | 1.5    |                           | 144                                          | 0,39                               |
| 11-0012      | 32     | 28     | 2      |                           | 188                                          | 0,51                               |

| Profile Code | D (mm) | d (mm) | t (mm) | Additional charge |                         | Area<br><i>Flaeche</i><br>(mm <sup>2</sup> ) | Weight<br><i>Gewicht</i><br>(Kg/m) |
|--------------|--------|--------|--------|-------------------|-------------------------|----------------------------------------------|------------------------------------|
| 11-0244      | 32     | 27     | 2.5    |                   |                         | 232                                          | 0,63                               |
| 11-0210      | 32     | 26     | 3      |                   |                         | 273                                          | 0,74                               |
| 11-0155      | 32     | 25     | 3.5    |                   |                         | 313                                          | 0,85                               |
| 11-0219      | 34     | 30     | 2      |                   |                         | 201                                          | 0,54                               |
| 11-0235      | 34     | 28     | 3      |                   |                         | 292                                          | 0,79                               |
| 11-0148      | 35     | 33     | 1      | *                 | THICK. ACC. TO EN 755-9 | 107                                          | 0,29                               |
| 11-9001      | 35     | 32,4   | 1.3    | *                 | THICK. ACC. TO EN 755-9 | 138                                          | 0,37                               |
| 11-0169      | 35     | 32     | 1.5    |                   |                         | 158                                          | 0,43                               |
| 11-0006      | 35     | 31     | 2      |                   |                         | 207                                          | 0,56                               |
| 11-0066      | 35     | 30     | 2.5    |                   |                         | 255                                          | 0,69                               |
| 11-0007      | 35     | 29     | 3      |                   |                         | 302                                          | 0,81                               |
| 11-0126      | 35     | 27     | 4      |                   |                         | 390                                          | 1,05                               |
| 11-0013      | 35     | 25     | 5      |                   |                         | 471                                          | 1,27                               |
| 11-0189      | 35     | 21     | 7      |                   |                         | 616                                          | 1,67                               |
| 11-0179      | 35     | 17     | 9      |                   |                         | 735                                          | 1,99                               |
| 11-0195      | 36     | 33     | 1.5    |                   |                         | 163                                          | 0,44                               |
| 11-0123      | 38     | 36     | 1      | *                 | THICK. ACC. TO EN 755-9 | 116                                          | 0,31                               |
| 11-0134      | 38     | 34     | 2      |                   |                         | 226                                          | 0,61                               |
| 11-0119      | 38     | 30     | 4      |                   |                         | 427                                          | 1,15                               |
| 11-9007      | 40     | 37,6   | 1.2    | *                 | THICK. ACC. TO EN 755-9 | 146                                          | 0,39                               |
| 11-0014      | 40     | 37     | 1.5    |                   |                         | 181                                          | 0,49                               |
| 11-0008      | 40     | 36     | 2      |                   |                         | 239                                          | 0,64                               |
| 11-0094      | 40     | 35     | 2.5    |                   |                         | 295                                          | 0,80                               |
| 11-0009      | 40     | 34     | 3      |                   |                         | 349                                          | 0,94                               |
| 11-0246      | 40     | 33     | 3.5    |                   |                         | 401                                          | 1,08                               |
| 11-0015      | 40     | 32     | 4      |                   |                         | 452                                          | 1,22                               |
| 11-0180      | 40     | 31     | 4.5    |                   |                         | 502                                          | 1,36                               |
| 11-0016      | 40     | 30     | 5      |                   |                         | 550                                          | 1,48                               |
| 11-0121      | 40     | 28     | 6      |                   |                         | 641                                          | 1,73                               |
| 11-0226      | 40     | 24     | 8      |                   |                         | 804                                          | 2,17                               |
| 11-0198      | 40     | 20     | 10     |                   |                         | 942                                          | 2,55                               |
| 11-0200      | 42     | 39     | 1.5    | *                 |                         | 191                                          | 0,52                               |
| 11-0176      | 42     | 38     | 2      |                   |                         | 251                                          | 0,68                               |
| 11-0017      | 42     | 36     | 3      |                   |                         | 368                                          | 0,99                               |
| 11-0201      | 42     | 35     | 3.5    |                   |                         | 423                                          | 1,15                               |
| 11-0186      | 42     | 34     | 4      |                   |                         | 478                                          | 1,29                               |
| 11-0165      | 42     | 32     | 5      |                   |                         | 581                                          | 1,57                               |
| 11-0247      | 42     | 30     | 6      |                   |                         | 679                                          | 1,83                               |
| 11-0010      | 45     | 41     | 2      |                   |                         | 270                                          | 0,73                               |
| 11-0127      | 45     | 40     | 2.5    |                   |                         | 334                                          | 0,90                               |
| 11-0018      | 45     | 39     | 3      |                   |                         | 396                                          | 1,07                               |
| 11-0209      | 45     | 37     | 4      |                   |                         | 515                                          | 1,40                               |
| 11-0093      | 45     | 35     | 5      |                   |                         | 628                                          | 1,70                               |
| 11-0240      | 46     | 40     | 3      |                   |                         | 405                                          | 1,09                               |
| 11-0183      | 46     | 38     | 4      |                   |                         | 528                                          | 1,43                               |
| 11-0103      | 46     | 33     | 6.5    |                   |                         | 807                                          | 2,18                               |
| 11-0019      | 48     | 44     | 2      |                   |                         | 289                                          | 0,78                               |

| Profile<br>Code | D<br>(mm) | d<br>(mm) | t<br>(mm) | Additional<br>charge             | Area<br><i>Flaeche</i><br>(mm <sup>2</sup> ) | Weight<br><i>Gewicht</i><br>(Kg/m) |
|-----------------|-----------|-----------|-----------|----------------------------------|----------------------------------------------|------------------------------------|
| 11-0128         | 48        | 43        | 2.5       |                                  | 357                                          | 0,97                               |
| 11-0174         | 48        | 42,4      | 2.8       |                                  | 398                                          | 1,08                               |
| 11-0020         | 48        | 42        | 3         |                                  | 424                                          | 1,15                               |
| 11-0021         | 48        | 40        | 4         |                                  | 553                                          | 1,49                               |
| 11-9008         | 48.3      | 43,3      | 2.5       |                                  | 360                                          | 0,97                               |
| 11-9013         | 48.3      | 43,1      | 2.6       |                                  | 373                                          | 1,01                               |
| 11-0205         | 48.3      | 42,3      | 3         |                                  | 427                                          | 1,16                               |
| 11-0118         | 48.3      | 40,7      | 3.8       |                                  | 531                                          | 1,43                               |
| 11-9010         | 48.3      | 40,3      | 4         |                                  | 557                                          | 1,50                               |
| 11-0159         | 48.3      | 40,2      | 4.05      |                                  | 563                                          | 1,52                               |
| 11-0089         | 50        | 48        | 1         | * <i>THICK. ACC. TO EN 755-9</i> | 154                                          | 0,42                               |
| 11-0022         | 50        | 47        | 1.5       | *                                | 229                                          | 0,62                               |
| 11-0023         | 50        | 46        | 2         |                                  | 302                                          | 0,81                               |
| 11-0024         | 50        | 45        | 2.5       |                                  | 373                                          | 1,01                               |
| 11-0025         | 50        | 44        | 3         |                                  | 443                                          | 1,20                               |
| 11-0026         | 50        | 42        | 4         |                                  | 578                                          | 1,56                               |
| 11-0027         | 50        | 40        | 5         |                                  | 707                                          | 1,91                               |
| 11-0196         | 50        | 38        | 6         |                                  | 829                                          | 2,24                               |
| 11-0239         | 50        | 34        | 8         |                                  | 1056                                         | 2,85                               |
| 11-0064         | 50        | 30        | 10        |                                  | 1257                                         | 3,39                               |
| 11-9002         | 50        | 26        | 12        |                                  | 1433                                         | 4,08                               |
| 11-0095         | 50        | 20        | 15        |                                  | 1649                                         | 4,45                               |
| 11-0204         | 51        | 47        | 2         |                                  | 308                                          | 0,83                               |
| 11-0140         | 53        | 47        | 3         |                                  | 471                                          | 1,27                               |
| 11-0202         | 54        | 50        | 2         |                                  | 327                                          | 0,89                               |
| 11-0076         | 55        | 51        | 2         |                                  | 333                                          | 0,90                               |
| 11-0083         | 55        | 50        | 2.5       |                                  | 412                                          | 1,11                               |
| 11-0194         | 55        | 49        | 3         |                                  | 490                                          | 1,33                               |
| 11-0102         | 55        | 45        | 5         |                                  | 785                                          | 2,12                               |
| 11-0243         | 55        | 35        | 10        |                                  | 1414                                         | 3,82                               |
| 11-0172         | 58        | 34        | 12        |                                  | 1734                                         | 4,70                               |
| 11-0028         | 60        | 57        | 1.5       | *                                | 276                                          | 0,74                               |
| 11-0029         | 60        | 56        | 2         | *                                | 364                                          | 0,99                               |
| 11-0030         | 60        | 55        | 2.5       |                                  | 452                                          | 1,22                               |
| 11-0031         | 60        | 54        | 3         |                                  | 537                                          | 1,45                               |
| 11-0032         | 60        | 52        | 4         |                                  | 704                                          | 1,90                               |
| 11-0033         | 60        | 50        | 5         |                                  | 864                                          | 2,33                               |
| 11-0182         | 60        | 48        | 6         |                                  | 1018                                         | 2,76                               |
| 11-0260         | 60        | 44        | 8         |                                  | 1307                                         | 3,53                               |
| 11-0156         | 60        | 40        | 10        |                                  | 1571                                         | 4,24                               |
| 11-0154         | 60        | 30        | 15        |                                  | 2121                                         | 5,73                               |
| 11-0081         | 60        | 20        | 20        |                                  | 2513                                         | 6,79                               |
| 11-0120         | 63        | 53        | 5         |                                  | 911                                          | 2,46                               |
| 11-0034         | 65        | 61        | 2         | *                                | 396                                          | 1,07                               |
| 11-0035         | 65        | 60        | 2.5       |                                  | 491                                          | 1,33                               |
| 11-0104         | 65        | 55        | 5         |                                  | 942                                          | 2,55                               |
| 11-0079         | 65        | 50        | 7.5       |                                  | 1355                                         | 3,66                               |

| Profile<br>Code | D<br>(mm) | d<br>(mm) | t<br>(mm) | Additional<br>charge | Area<br><i>Flaeche</i><br>(mm <sup>2</sup> ) | Weight<br><i>Gewicht</i><br>(Kg/m) |
|-----------------|-----------|-----------|-----------|----------------------|----------------------------------------------|------------------------------------|
| 11-0255         | 65        | 45        | 10        |                      | 1728                                         | 4,67                               |
| 11-0147         | 65        | 25        | 20        |                      | 2827                                         | 7,63                               |
| 11-0036         | 70        | 66        | 2         | *                    | 427                                          | 1,15                               |
| 11-0037         | 70        | 64        | 3         |                      | 631                                          | 1,71                               |
| 11-0101         | 70        | 62        | 4         |                      | 829                                          | 2,24                               |
| 11-0038         | 70        | 60        | 5         |                      | 1021                                         | 2,76                               |
| 11-0191         | 70        | 58        | 6         |                      | 1206                                         | 3,27                               |
| 11-0110         | 70        | 54        | 8         |                      | 1558                                         | 4,21                               |
| 11-0150         | 70        | 50        | 10        |                      | 1885                                         | 5,09                               |
| 11-0234         | 70        | 40        | 15        |                      | 2592                                         | 7,00                               |
| 11-0113         | 70        | 30        | 20        |                      | 3142                                         | 8,48                               |
| 11-9015         | 75        | 71        | 2         | *                    | 459                                          | 1,24                               |
| 11-0039         | 75        | 70        | 2.5       |                      | 569                                          | 1,54                               |
| 11-0231         | 75        | 69        | 3         |                      | 679                                          | 1,83                               |
| 11-0040         | 75        | 65        | 5         |                      | 1100                                         | 2,97                               |
| 11-0230         | 75        | 55        | 10        |                      | 2042                                         | 5,51                               |
| 11-0071         | 75        | 45        | 15        |                      | 2827                                         | 7,63                               |
| 11-0137         | 76        | 71        | 2.5       |                      | 577                                          | 1,56                               |
| 11-0068         | 76        | 70        | 3         |                      | 688                                          | 1,86                               |
| 11-0041         | 80        | 76        | 2         | *                    | 490                                          | 1,32                               |
| 11-0105         | 80        | 75        | 2.5       | *                    | 609                                          | 1,64                               |
| 11-0042         | 80        | 74        | 3         |                      | 726                                          | 1,96                               |
| 11-0092         | 80        | 72        | 4         |                      | 955                                          | 2,58                               |
| 11-0043         | 80        | 70        | 5         |                      | 1178                                         | 3,18                               |
| 11-0248         | 80        | 68        | 6         |                      | 1395                                         | 3,77                               |
| 11-0197         | 80        | 64        | 8         |                      | 1810                                         | 4,90                               |
| 11-0163         | 80        | 60        | 10        |                      | 2199                                         | 5,94                               |
| 11-0213         | 80        | 50        | 15        |                      | 3063                                         | 8,27                               |
| 11-0193         | 80        | 40        | 20        |                      | 3770                                         | 10,22                              |
| 11-0088         | 83        | 73        | 5         |                      | 1225                                         | 3,31                               |
| 11-0229         | 86        | 80        | 3         |                      | 782                                          | 2,11                               |
| 11-0259         | 90        | 86        | 2         | *                    | 553                                          | 1,49                               |
| 11-0044         | 90        | 85        | 2.5       | *                    | 687                                          | 1,86                               |
| 11-0087         | 90        | 84        | 3         |                      | 820                                          | 2,21                               |
| 11-0162         | 90        | 82        | 4         |                      | 1081                                         | 2,92                               |
| 11-0045         | 90        | 80        | 5         |                      | 1335                                         | 3,60                               |
| 11-0212         | 90        | 70        | 10        |                      | 2513                                         | 6,81                               |
| 11-0227         | 90        | 60        | 15        |                      | 3534                                         | 9,54                               |
| 11-0257         | 92        | 62        | 15        |                      | 3629                                         | 9,80                               |
| 11-0046         | 100       | 96        | 2         | *                    | 616                                          | 1,66                               |
| 11-0160         | 100       | 95        | 2.5       | *                    | 766                                          | 2,07                               |
| 11-0047         | 100       | 94        | 3         | *                    | 914                                          | 2,47                               |
| 11-0048         | 100       | 92        | 4         |                      | 1206                                         | 3,26                               |
| 11-0049         | 100       | 90        | 5         |                      | 1492                                         | 4,03                               |
| 11-0208         | 100       | 88        | 6         |                      | 1772                                         | 4,80                               |
| 11-0211         | 100       | 84        | 8         |                      | 2312                                         | 6,27                               |
| 11-0122         | 100       | 80        | 10        |                      | 2827                                         | 7,63                               |

| Profile Code | D (mm) | d (mm) | t (mm) | Additional charge | Area<br><i>Flaeche</i><br>(mm <sup>2</sup> ) | Weight<br><i>Gewicht</i><br>(Kg/m) |
|--------------|--------|--------|--------|-------------------|----------------------------------------------|------------------------------------|
| 11-0214      | 100    | 70     | 15     |                   | 4006                                         | 10,82                              |
| 11-9011      | 105    | 101    | 2      | *                 | 647                                          | 1,75                               |
| 11-0241      | 105    | 100    | 2.5    |                   | 805                                          | 2,17                               |
| 11-0258      | 105    | 75     | 15     |                   | 4241                                         | 11,45                              |
| 11-0114      | 106    | 100    | 3      | *                 | 971                                          | 2,62                               |
| 11-0050      | 108    | 102    | 3      | *                 | 990                                          | 2,67                               |
| 11-0051      | 108    | 100    | 4      |                   | 1307                                         | 3,53                               |
| 11-0052      | 108    | 98     | 5      |                   | 1618                                         | 4,37                               |
| 11-0135      | 110    | 107    | 1.5    | *                 | 511                                          | 1,38                               |
| 11-0171      | 110    | 106    | 2      | *                 | 679                                          | 1,84                               |
| 11-9016      | 110    | 105    | 2.5    | *                 | 844                                          | 2,28                               |
| 11-0190      | 110    | 104    | 3      | *                 | 1008                                         | 2,73                               |
| 11-0053      | 110    | 100    | 5      |                   | 1649                                         | 4,45                               |
| 11-0236      | 110    | 98     | 6      |                   | 1960                                         | 5,29                               |
| 11-0188      | 110    | 90     | 10     |                   | 3142                                         | 8,51                               |
| 11-0228      | 115    | 105    | 5      |                   | 1728                                         | 4,67                               |
| 11-0256      | 115    | 85     | 15     | MAX LENGTH 5000MM | 4712                                         | 12,72                              |
| 11-0054      | 120    | 116    | 2      | *                 | 741                                          | 2,00                               |
| 11-0055      | 120    | 114    | 3      | *                 | 1103                                         | 2,98                               |
| 11-0111      | 120    | 112    | 4      |                   | 1458                                         | 3,94                               |
| 11-0056      | 120    | 110    | 5      |                   | 1806                                         | 4,88                               |
| 11-0207      | 120    | 100    | 10     |                   | 3456                                         | 9,37                               |
| 11-0109      | 125    | 120    | 2.5    | *                 | 962                                          | 2,60                               |
| 11-0100      | 125    | 119    | 3      | *                 | 1150                                         | 3,11                               |
| 11-0124      | 125    | 117    | 4      |                   | 1521                                         | 4,11                               |
| 11-0177      | 125    | 115    | 5      |                   | 1885                                         | 5,11                               |
| 11-0139      | 125    | 110    | 7.5    |                   | 2769                                         | 7,48                               |
| 11-0152      | 130    | 124    | 3      | *                 | 1197                                         | 3,23                               |
| 11-0085      | 130    | 120    | 5      |                   | 1963                                         | 5,30                               |
| 11-0192      | 130    | 118    | 6      |                   | 2337                                         | 6,33                               |
| 11-0116      | 133    | 127    | 3      | *                 | 1225                                         | 3,31                               |
| 11-0222      | 133    | 125    | 4      | *                 | 1621                                         | 4,38                               |
| 11-0252      | 135    | 125    | 5      |                   | 2042                                         | 5,51                               |
| 11-0142      | 138    | 132    | 3      | *                 | 1272                                         | 3,44                               |
| 11-0141      | 140    | 136    | 2      | *                 | 867                                          | 2,34                               |
| 11-0178      | 140    | 132    | 4      | *                 | 1709                                         | 4,63                               |
| 11-0057      | 140    | 130    | 5      | *                 | 2121                                         | 5,73                               |
| 11-0254      | 140    | 124    | 8      |                   | 3318                                         | 8,96                               |
| 11-0112      | 145    | 137    | 4      | *                 | 1772                                         | 4,78                               |
| 11-0058      | 150    | 146    | 2      | *                 | 930                                          | 2,51                               |
| 11-0059      | 150    | 144    | 3      | *                 | 1385                                         | 3,74                               |
| 11-0060      | 150    | 140    | 5      |                   | 2278                                         | 6,15                               |
| 11-0261      | 150    | 134    | 8      |                   | 3569                                         | 9,64                               |
| 11-9012      | 156    | 150    | 3      | *                 | 1442                                         | 3,89                               |
| 11-0173      | 160    | 154    | 3      | *                 | 1480                                         | 4,01                               |
| 11-0130      | 160    | 150    | 5      |                   | 2435                                         | 6,57                               |
| 11-0215      | 170    | 160    | 5      | *                 | 2592                                         | 7,00                               |

| Profile<br>Code | D<br>(mm) | d<br>(mm) | t<br>(mm) | Additional<br>charge | Area<br><i>Flaeche</i><br>(mm <sup>2</sup> ) | Weight<br><i>Gewicht</i><br>(Kg/m) |
|-----------------|-----------|-----------|-----------|----------------------|----------------------------------------------|------------------------------------|
| 11-0106         | 180       | 170       | 5         | *                    | 2749                                         | 7,42                               |
| 11-0225         | 180       | 168       | 6         | *                    | 3280                                         | 8,86                               |
| 11-0181         | 200       | 190       | 5         | *                    | 3063                                         | 8,30                               |



## Square tubes with rounded corners

### Vierkantrohre mit gerundeten Ecken

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#### Notes:

\* The weight of each profile is calculated by measuring it's cross-sectional area and multiplying it by the material density. The aluminium density is considered to be 2,70 gr/cm<sup>3</sup>.

\*\* Alloy and Length is subject to customer's request.

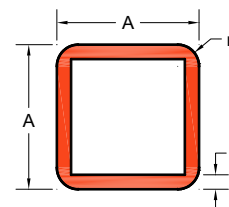
\*\*\* Radii less than 1mm are not stated.

A=Width

A=Height

t=thickness

r=Corner radius



#### EXPERTS IN ALUMINIUM™

| Profile Code | A (mm) | t (mm) | r <sup>(***)</sup> (mm) | Additional charge | Area<br>Flaeche (mm <sup>2</sup> ) | Weight<br>Gewicht (Kg/m) |
|--------------|--------|--------|-------------------------|-------------------|------------------------------------|--------------------------|
| 12-0012      | 20     | 1.5    | 2                       |                   | 108                                | 0,29                     |
| 12-0021      | 20     | 2      | 2                       |                   | 141                                | 0,38                     |
| 12-0028      | 23     | 2      | 2                       |                   | 165                                | 0,45                     |
| 12-0000      | 25     | 2      | 2                       |                   | 181                                | 0,49                     |
| 12-0008      | 25     | 2.5    | 3                       |                   | 217                                | 0,59                     |
| 12-0001      | 30     | 2      | 2                       |                   | 221                                | 0,60                     |
| 12-0010      | 30     | 3      | 3                       |                   | 316                                | 0,85                     |
| 12-0007      | 30     | 4      | 5.5                     |                   | 390                                | 1,05                     |
| 12-0030      | 35     | 2      | 2                       |                   | 261                                | 0,71                     |
| 12-0002      | 40     | 2      | 2                       |                   | 301                                | 0,81                     |
| 12-0006      | 40     | 2.5    | 2                       |                   | 372                                | 1,01                     |
| 12-0009      | 40     | 2.5    | 4                       |                   | 361                                | 0,98                     |
| 12-0022      | 40     | 3      | 3                       |                   | 436                                | 1,18                     |
| 12-0016      | 40     | 4      | 4                       |                   | 562                                | 1,52                     |
| 12-0013      | 50     | 3      | 2                       |                   | 561                                | 1,51                     |
| 12-0014      | 50     | 3      | 3                       |                   | 556                                | 1,50                     |
| 12-0025      | 50     | 4      | 4                       |                   | 722                                | 1,96                     |
| 12-0031      | 50     | 5      | 5                       |                   | 879                                | 2,38                     |
| 12-0037      | 60     | 2      | 3                       |                   | 456                                | 1,23                     |
| 12-0034      | 60     | 2.5    | 3                       |                   | 567                                | 1,53                     |
| 12-0011      | 60     | 3      | 3                       |                   | 676                                | 1,83                     |
| 12-0027      | 60     | 3      | 6                       |                   | 653                                | 1,79                     |
| 12-0017      | 60     | 3      | 8                       |                   | 629                                | 1,76                     |
| 12-9001      | 60     | 4      | 2                       |                   | 893                                | 2,42                     |
| 12-0026      | 60     | 4      | 3                       |                   | 888                                | 2,41                     |
| 12-0024      | 60     | 4      | 4                       |                   | 882                                | 2,39                     |
| 12-0038      | 70     | 2      | 3                       |                   | 536                                | 1,45                     |
| 12-0029      | 70     | 2      | 4                       |                   | 530                                | 1,45                     |
| 12-0020      | 70     | 2.5    | 4                       |                   | 661                                | 1,80                     |
| 12-0036      | 80     | 2      | 2.5                     | *                 | 619                                | 1,67                     |
| 12-0039      | 80     | 2      | 3                       |                   | 616                                | 1,67                     |



| Profile<br>Code | A<br>(mm) | t<br>(mm) | r <sup>(***)</sup><br>(mm) | Additional<br>charge | Area<br><i>Flaeche</i><br>(mm <sup>2</sup> ) | Weight<br><i>Gewicht</i><br>(Kg/m) |
|-----------------|-----------|-----------|----------------------------|----------------------|----------------------------------------------|------------------------------------|
| 12-0032         | 80        | 3         | 5                          |                      | 903                                          | 2,45                               |
| 12-0004         | 80        | 4         | 6                          |                      | 1185                                         | 3,22                               |
| 12-0035         | 80        | 6         | 8                          |                      | 1721                                         | 4,66                               |
| 12-0019         | 90        | 4         | 3                          |                      | 1368                                         | 3,70                               |
| 12-0033         | 100       | 3         | 8                          |                      | 1109                                         | 3,05                               |
| 12-0015         | 100       | 4         | 7                          |                      | 1494                                         | 4,06                               |
| 12-0023         | 120       | 4         | 10                         |                      | 1770                                         | 4,88                               |



## Rectangular tubes with rounded corners

### Rechteckrohre mit gerundeten Ecken

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#### Notes:

\* The weight of each profile is calculated by measuring it's cross-sectional area and multiplying it by the material density. The aluminium density is considered to be 2,70 gr/cm<sup>3</sup>.

\*\* Alloy and Length is subject to customer's request.

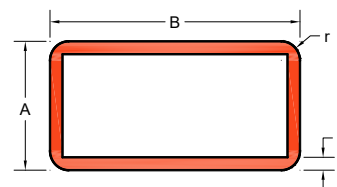
\*\*\* Radii less than 1mm are not stated.

A=Height

B=Width

t=thickness

r=Corner radius



#### EXPERTS IN ALUMINIUM™

| Profile Code | B (mm) | A (mm) | t (mm) | r <sup>(***)</sup> (mm) | Additional charge | Area Flaeche (mm <sup>2</sup> ) | Weight Gewicht (Kg/m) |
|--------------|--------|--------|--------|-------------------------|-------------------|---------------------------------|-----------------------|
| 13-9001      | 25     | 15     | 2      | 3                       |                   | 136                             | 0,37                  |
| 13-0000      | 30     | 20     | 2      | 2                       |                   | 181                             | 0,49                  |
| 13-0001      | 35     | 25     | 2      | 2                       |                   | 221                             | 0,60                  |
| 13-0002      | 40     | 20     | 2      | 2                       |                   | 221                             | 0,60                  |
| 13-0023      | 40     | 20     | 3      | 3                       |                   | 316                             | 0,88                  |
| 13-0024      | 40     | 25     | 2      | 3                       |                   | 236                             | 0,64                  |
| 13-0010      | 40     | 25     | 2      | 5                       |                   | 223                             | 0,62                  |
| 13-0011      | 40     | 30     | 2      | 5                       |                   | 243                             | 0,68                  |
| 13-0027      | 40     | 30     | 4      | 4                       |                   | 482                             | 1,30                  |
| 13-0029      | 45     | 25     | 2      | 2                       |                   | 261                             | 0,70                  |
| 13-0025      | 50     | 30     | 2      | 5                       |                   | 283                             | 0,77                  |
| 13-0012      | 50     | 30     | 2      | 2                       |                   | 301                             | 0,81                  |
| 13-0019      | 50     | 30     | 3      | 6                       |                   | 413                             | 1,14                  |
| 13-0015      | 50     | 30     | 3      | 3                       |                   | 436                             | 1,18                  |
| 13-0021      | 60     | 30     | 2      | 3                       |                   | 336                             | 0,91                  |
| 13-0007      | 60     | 40     | 2      | 2                       |                   | 381                             | 1,03                  |
| 13-0006      | 60     | 40     | 2.5    | 2                       |                   | 472                             | 1,27                  |
| 13-0004      | 60     | 40     | 3      | 3                       |                   | 556                             | 1,51                  |
| 13-0032      | 60     | 40     | 3      | 4                       |                   | 550                             | 1,50                  |
| 13-0031      | 60     | 40     | 4      | 4                       |                   | 722                             | 1,96                  |
| 13-0016      | 60     | 50     | 3      | 3                       |                   | 616                             | 1,69                  |
| 13-0018      | 80     | 20     | 2      | 3                       |                   | 376                             | 1,02                  |
| 13-0009      | 80     | 30     | 3      | 3                       |                   | 616                             | 1,67                  |
| 13-9003      | 80     | 40     | 3      | 6                       |                   | 653                             | 1,79                  |
| 13-0014      | 80     | 40     | 4      | 3                       |                   | 888                             | 2,41                  |
| 13-0017      | 80     | 50     | 3      | 3                       |                   | 736                             | 2,01                  |
| 13-0020      | 80     | 50     | 4      | 4                       |                   | 962                             | 2,61                  |
| 13-0008      | 80     | 60     | 4      | 6                       |                   | 1025                            | 2,79                  |
| 13-0013      | 100    | 30     | 4      | 4                       |                   | 962                             | 2,60                  |
| 13-0033      | 100    | 40     | 4      | 4                       |                   | 1042                            | 2,82                  |

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