



STANDARD  
PROFILES  
04/2020





## Extruded alloys- tempers & mechanical properties:

Standard alloys in production include:

EN-AW 6060 (Al MgSi0,5) DIN 3.3206  
 EN-AW 6063 (Al Mg0,7Si) DIN 3.2315  
 EN-AW 6005A (Al MgSi0,7) DIN 3.3210  
 EN-AW 6082 (Al Si1MgMn) DIN 3.2315  
 EN-AW 6061 (Al Mg1SiCu) DIN 3.3211\*

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

| Alloy chemical composition as per EN 573-3:2-13 |           |           |           |           |           |           |      |      |       |       |      |
|-------------------------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|------|------|-------|-------|------|
| Alloy                                           | Si        | Fe        | Cu        | Mn        | Mg        | Cr        | Zn   | Ti   | Other |       | Al   |
|                                                 |           |           |           |           |           |           |      |      | Each  | Total |      |
| <b>6060</b>                                     | 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>                                     | 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>                                    | 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>                                     | 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>                                    | 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 |

| Available combinations of Alloys & Tempers |             |              |             |             |
|--------------------------------------------|-------------|--------------|-------------|-------------|
| <b>6060</b>                                | <b>6063</b> | <b>6005A</b> | <b>6082</b> | <b>6061</b> |
| O                                          | O           | O            | O           | O           |
| T4                                         | T4          | T4           | T4          | T4          |
| T5                                         | T5          | -            | T5          | -           |
| T6                                         | T6          | T6           | T6          | T6          |
| T66                                        | T66         | -            | -           | -           |

| Temper designation EN 515:2017 |                                                                                                                                                                                                                                |
|--------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| O                              | Annealed wrought alloys                                                                                                                                                                                                        |
| T4                             | Solution heat treated & naturally aged.                                                                                                                                                                                        |
| T5                             | Cooled from an elevated temperature forming operation & artificially aged (precipitation hardened)                                                                                                                             |
| T6                             | Solution heat treated & artificially aged (precipitation hardened).<br>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.<br>Press quenching required. |

| Physical properties                | Alloys EN-AW |             |              |             |             |
|------------------------------------|--------------|-------------|--------------|-------------|-------------|
| Alloys EN-AW                       | <b>6060</b>  | <b>6063</b> | <b>6005A</b> | <b>6082</b> | <b>6061</b> |
| 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)**

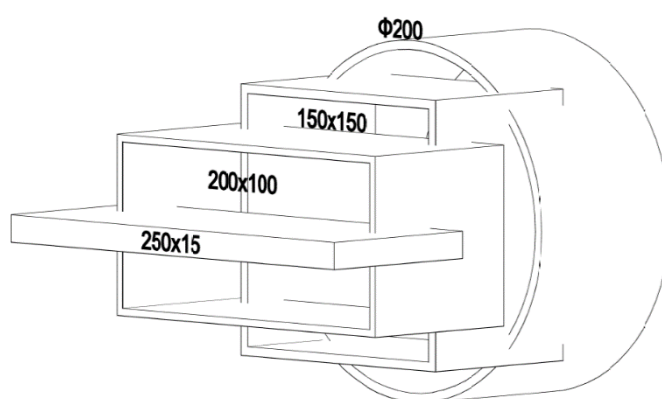
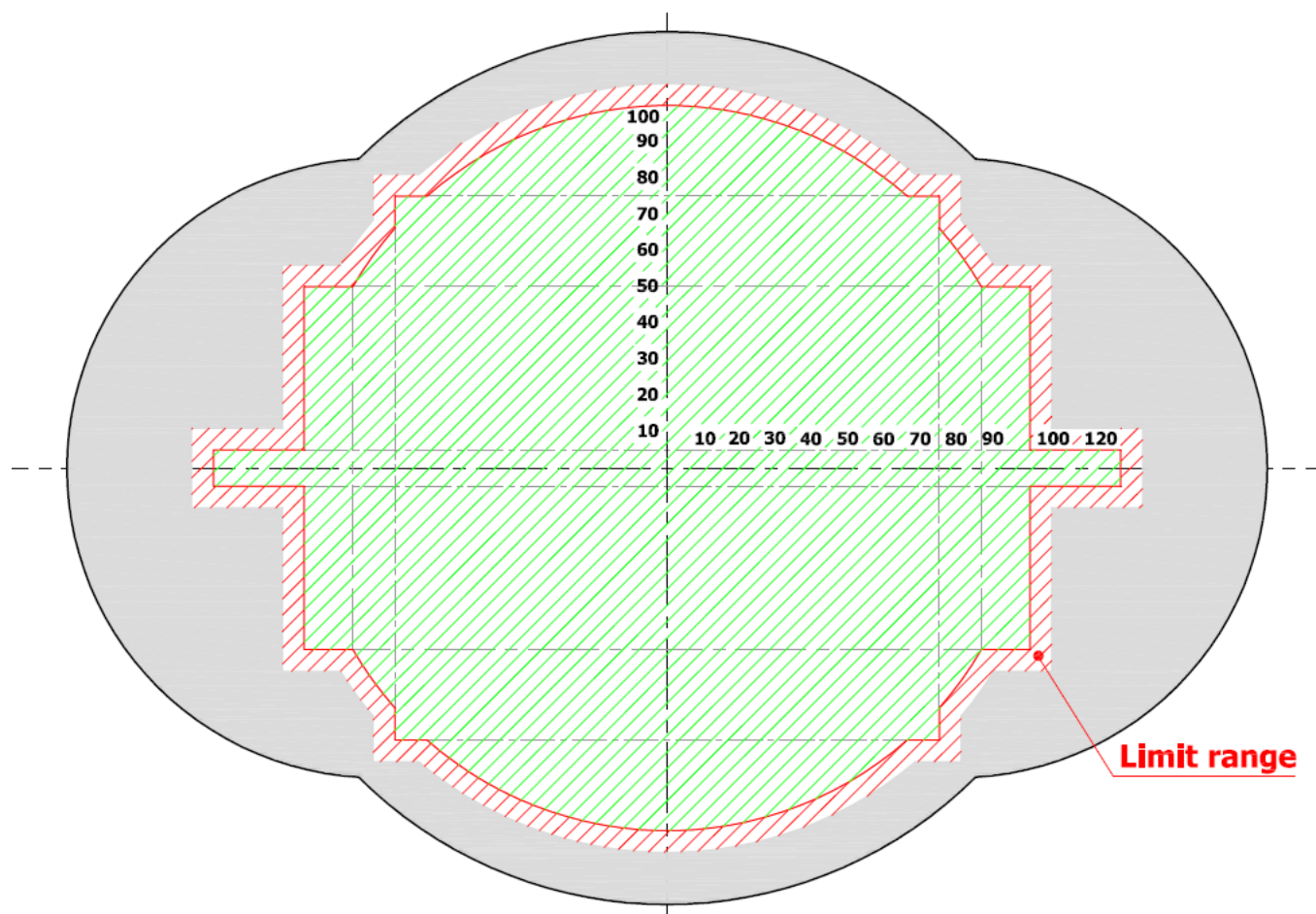
| Alloy       | Temper    | Wall Thickness | Tensile strength             | Yield strength                  | Elongation |                         | Brinell Hardness |
|-------------|-----------|----------------|------------------------------|---------------------------------|------------|-------------------------|------------------|
|             |           |                |                              |                                 | A % min    | A <sub>50mm</sub> % min |                  |
|             |           | e mm*          | R <sub>m</sub><br>MPa<br>min | R <sub>p0,2</sub><br>MPa<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               |
|             | 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               |
|             |           | 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.

**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.                       |    |    |       |     |     |

## Profile size production range



Maximum extrusion dimensions per standard profile (shape) category.

| 01<br>Square | 02<br>Rect | 03<br>Round | 04<br>Angle | 05<br>Angle | 06<br>T-section | 07<br>U-Section | 09/12<br>Square | 10/13<br>Rect. | 11<br>Round |
|--------------|------------|-------------|-------------|-------------|-----------------|-----------------|-----------------|----------------|-------------|
|              |            |             |             |             |                 |                 |                 |                |             |
| 61x61        | 250x15     | 70          | 150x150x13  | 240x40x14   | 150x150x13      | 40x240x40x12    | 150x150x6       | 200x100x6      | 200x5       |

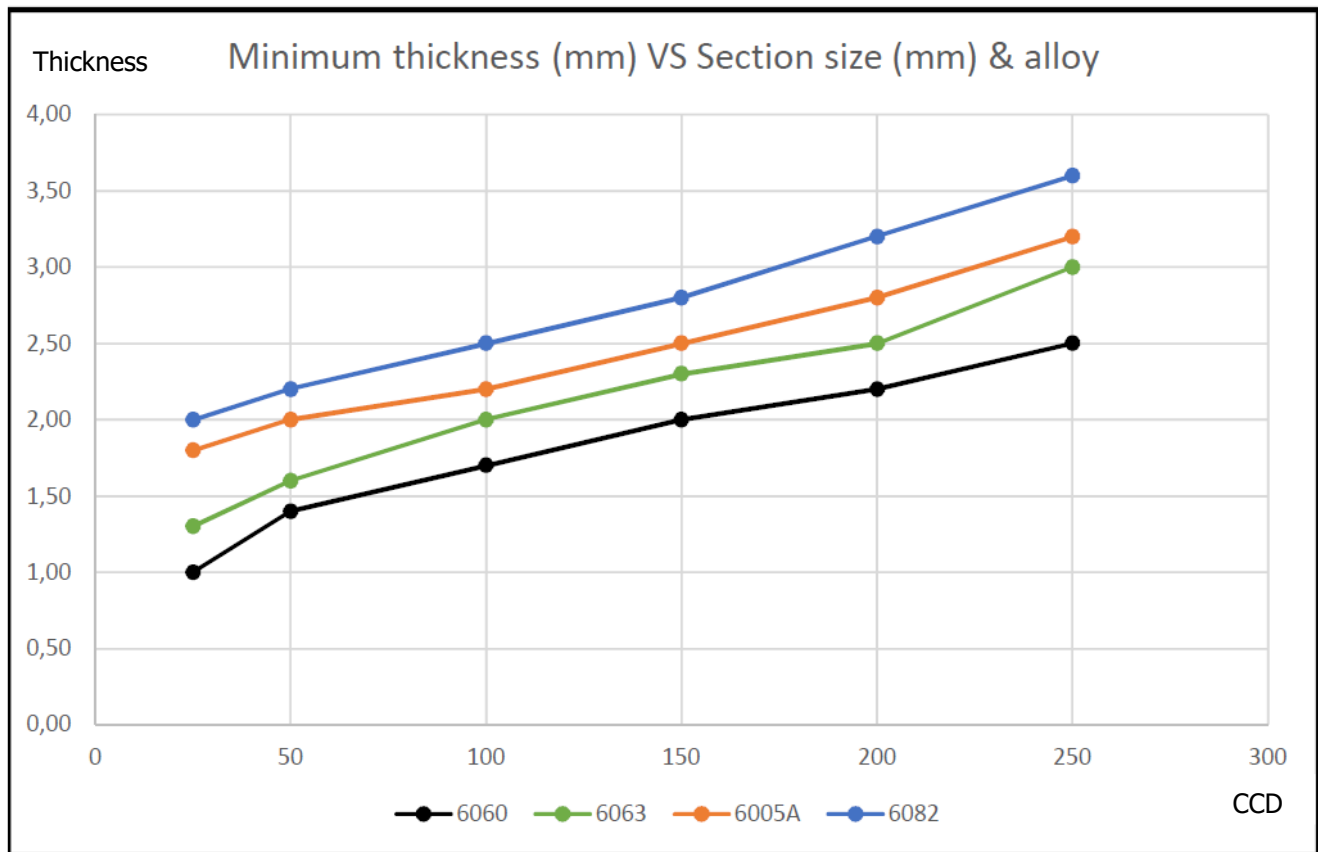


## Profile weight production range

| Minimum    | Maximum    |
|------------|------------|
| 0,100 Kg/m | 10,00 Kg/m |

## 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 | 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 | 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, electric motor housings, office equipment, special machine elements. |

## EXPERTS IN ALUMINIUM™

|             |                                                                                                                                                    |                                                                                                                                                                  |
|-------------|----------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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

Cosmos follow the inspection rules and control the shape quality characteristics and mechanical properties of the extruded sections under the following European norms:

| 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 aluminium is holding the following certificates:

| Cosmos Certificates                                                                       |
|-------------------------------------------------------------------------------------------|
| ISO 9001                                                                                  |
| ISO 14001                                                                                 |
| ISO 50001                                                                                 |
| OSHAS 18001                                                                               |
| Certificate of Conformity of Factory Production Control- No 0038/CPR/PIR1007756/A- Lloyds |
| LR Approved- No MD00/4306/0004/6a- Lloyds                                                 |
| REACH                                                                                     |
| RoHS                                                                                      |



## 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>.

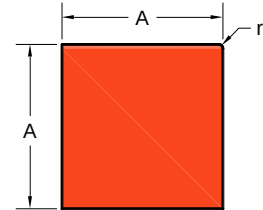
\*\* Alloy and Length is subject to customer's request.

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

A=Width

A=Height

r=Corner radius



#### EXPERTS IN ALUMINIUM™

| Profile Code | A (mm) | r <sup>(***)</sup> (mm) | Additional charge | Area<br>Fläche<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                        |
| 01-0011      | 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                       |



## Rectangular bars (Flat bars)

### *Rechteckstangen (Flachstangen)*

02

#### 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>.

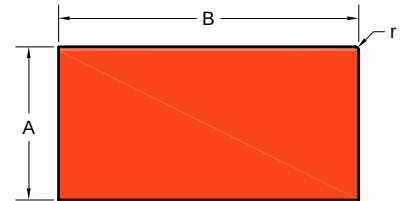
\*\* Alloy and Length is subject to customer's request.

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

A=Height

B=Width

r=Corner radius



#### EXPERTS IN ALUMINIUM™

| Profile Code | B (mm) | A (mm) | r <sup>(***)</sup> (mm) | Additional charge | Area<br>Flaeche<br>(mm <sup>2</sup> ) | Weight<br>Gewicht<br>(Kg/m) |
|--------------|--------|--------|-------------------------|-------------------|---------------------------------------|-----------------------------|
| 02-0152      | 10     | 2      |                         | *                 | 20                                    | 0,05                        |
| 02-0135      | 10     | 5      |                         |                   | 50                                    | 0,14                        |
| 02-0134      | 10     | 8      |                         |                   | 80                                    | 0,22                        |
| 02-0171      | 12     | 3      |                         |                   | 36                                    | 0,1                         |
| 02-0155      | 12     | 4      |                         |                   | 48                                    | 0,13                        |
| 02-0197      | 12     | 5      |                         |                   | 60                                    | 0,16                        |
| 02-0175      | 12     | 6      |                         |                   | 72                                    | 0,2                         |
| 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                                    | 0,2                         |
| 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                        |
| 02-0105      | 20     | 15     |                         |                   | 300                                   | 0,81                        |
| 02-0008      | 25     | 2      |                         |                   | 50                                    | 0,14                        |
| 02-0009      | 25     | 3      |                         |                   | 75                                    | 0,2                         |
| 02-0103      | 25     | 4      |                         |                   | 100                                   | 0,27                        |
| 02-0089      | 25     | 5      |                         |                   | 125                                   | 0,34                        |
| 02-0124      | 25     | 6      |                         |                   | 150                                   | 0,41                        |



| Profile<br>Code | B<br>(mm) | A<br>(mm) | r <sup>(***)</sup><br>(mm) | Additional<br>charge | Area<br><i>Fläche</i><br>(mm <sup>2</sup> ) | Weight<br><i>Gewicht</i><br>(Kg/m) |
|-----------------|-----------|-----------|----------------------------|----------------------|---------------------------------------------|------------------------------------|
| 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                                         | 1,3                                |
| 02-0034         | 40        | 15        |                            |                      | 600                                         | 1,62                               |
| 02-0035         | 40        | 20        |                            |                      | 800                                         | 2,16                               |
| 02-0108         | 40        | 25        |                            |                      | 1000                                        | 2,7                                |
| 02-0122         | 40        | 30        |                            |                      | 1200                                        | 3,24                               |
| 02-0203         | 40        | 35        |                            |                      | 1400                                        | 3,79                               |
| 02-0169         | 45        | 3         |                            |                      | 135                                         | 0,36                               |
| 02-0206         | 45        | 5         |                            |                      | 225                                         | 0,61                               |
| 02-0158         | 45        | 8         |                            |                      | 360                                         | 0,97                               |

| Profile Code | B (mm) | A (mm) | r <sup>(***)</sup> (mm) | Additional charge | Area <i>Flaeche</i> (mm <sup>2</sup> ) | Weight <i>Gewicht</i> (Kg/m) |
|--------------|--------|--------|-------------------------|-------------------|----------------------------------------|------------------------------|
| 02-0192      | 45     | 10     |                         |                   | 450                                    | 1,22                         |
| 02-0167      | 45     | 15     |                         |                   | 675                                    | 1,82                         |
| 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                                   | 2,7                          |
| 02-0099      | 50     | 25     |                         |                   | 1250                                   | 3,38                         |
| 02-0091      | 50     | 30     |                         |                   | 1500                                   | 4,05                         |
| 02-0125      | 50     | 40     |                         |                   | 2000                                   | 5,4                          |
| 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                                    | 1,3                          |
| 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                         |
| 02-0050      | 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                         |
| 02-0183      | 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                                   | 3,4                          |
| 02-0141      | 70     | 20     |                         |                   | 1400                                   | 3,78                         |
| 02-0149      | 70     | 25     |                         |                   | 1750                                   | 4,72                         |

| Profile<br>Code | B<br>(mm) | A<br>(mm) | r <sup>(***)</sup><br>(mm) | Additional<br>charge | Area<br><i>Fläche</i><br>(mm <sup>2</sup> ) | Weight<br><i>Gewicht</i><br>(Kg/m) |
|-----------------|-----------|-----------|----------------------------|----------------------|---------------------------------------------|------------------------------------|
| 02-0127         | 70        | 30        |                            |                      | 2100                                        | 5,67                               |
| 02-0156         | 70        | 40        |                            |                      | 2800                                        | 7,56                               |
| 02-0101         | 75        | 5         |                            |                      | 375                                         | 1,01                               |
| 02-0207         | 75        | 6         |                            |                      | 450                                         | 1,22                               |
| 02-0109         | 75        | 10        |                            |                      | 750                                         | 2,03                               |
| 02-0184         | 75        | 15        |                            |                      | 1125                                        | 3,05                               |
| 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                                         | 1,3                                |
| 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                                        | 5,4                                |
| 02-0100         | 80        | 30        |                            |                      | 2400                                        | 6,48                               |
| 02-0093         | 80        | 40        |                            |                      | 3200                                        | 8,64                               |
| 02-0058         | 80        | 50        |                            |                      | 4000                                        | 10,8                               |
| 02-0182         | 80        | 60        |                            |                      | 4800                                        | 13,01                              |
| 02-0194         | 85        | 10        |                            |                      | 850                                         | 2,3                                |
| 02-0142         | 90        | 4         |                            |                      | 360                                         | 0,97                               |
| 02-0137         | 90        | 5         |                            |                      | 450                                         | 1,22                               |
| 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                               |
| 02-0186         | 90        | 40        |                            |                      | 3600                                        | 9,76                               |
| 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                                        | 2,7                                |
| 02-0132         | 100       | 12        |                            |                      | 1200                                        | 3,24                               |
| 02-0064         | 100       | 15        |                            |                      | 1500                                        | 4,05                               |
| 02-0065         | 100       | 20        |                            |                      | 2000                                        | 5,4                                |
| 02-0143         | 100       | 25        |                            |                      | 2500                                        | 6,75                               |
| 02-0066         | 100       | 30        |                            |                      | 3000                                        | 8,1                                |
| 02-0067         | 100       | 40        |                            |                      | 4000                                        | 10,8                               |
| 02-0068         | 100       | 50        |                            |                      | 5000                                        | 13,5                               |
| 02-0211         | 110       | 5         |                            |                      | 550                                         | 1,49                               |
| 02-0162         | 110       | 10        |                            |                      | 1100                                        | 2,97                               |
| 02-0179         | 110       | 30        |                            |                      | 3300                                        | 8,94                               |

| 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) |
|-----------------|-----------|-----------|----------------------------|----------------------|----------------------------------------------|------------------------------------|
| 02-0157         | 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                               |
| 02-0177         | 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                               |
| 02-0146         | 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                                         | 8,1                                |
| 02-0080         | 160       | 10        |                            |                      | 1600                                         | 4,32                               |
| 02-0144         | 160       | 12        |                            |                      | 1920                                         | 5,18                               |
| 02-0163         | 160       | 15        |                            |                      | 2400                                         | 6,48                               |
| 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                                         | 2,7                                |
| 02-0166         | 200       | 6         |                            |                      | 1200                                         | 3,24                               |
| 02-0083         | 200       | 8         |                            |                      | 1600                                         | 4,32                               |
| 02-0084         | 200       | 10        |                            |                      | 2000                                         | 5,4                                |
| 02-0212         | 200       | 12        |                            |                      | 2400                                         | 6,48                               |
| 02-0085         | 200       | 15        |                            |                      | 3000                                         | 8,1                                |
| 02-0086         | 200       | 20        |                            |                      | 4000                                         | 10,8                               |
| 02-0087         | 250       | 8         |                            |                      | 2000                                         | 5,4                                |
| 02-0088         | 250       | 10        |                            |                      | 2500                                         | 6,75                               |



## Round bars (Rods)

### Rundstangen

03

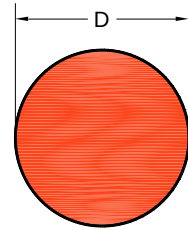
#### Notes:

\* 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<br>Fläche<br>(mm <sup>2</sup> ) | Weight<br>Gewicht<br>(Kg/m) |
|--------------|--------|-------------------|----------------------------------------|--------------------------------------|-----------------------------|
| 03-0035      | 6      | *                 | diameter tolerance $\pm 0,22\text{mm}$ | 28                                   | 0,08                        |
| 03-0026      | 7      | *                 | diameter tolerance $\pm 0,22\text{mm}$ | 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                        |
| 03-0031      | 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                        |
| 03-0006      | 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                        |
| 03-0020      | 38     |                   |                                        | 1134                                 | 3,06                        |
| 03-0007      | 40     |                   |                                        | 1257                                 | 3,39                        |

| 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) |
|-----------------|-----------|----------------------|----------------------------------------------|------------------------------------|
| 03-0025         | 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                               |
| 03-0022         | 55        |                      | 2376                                         | 6,42                               |
| 03-0009         | 60        |                      | 2827                                         | 7,63                               |
| 03-0023         | 65        |                      | 3318                                         | 8,96                               |
| 03-0014         | 68        |                      | 3632                                         | 9,81                               |
| 03-0024         | 70        |                      | 3848                                         | 10,39                              |



## Symmetrical L-Profiles (Angles)

### Gleichschenklige L-Profil (Winkelprofile)

04

#### 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>.

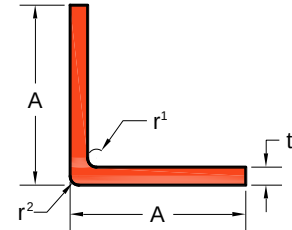
\*\* Alloy and Length is subject to customer's request.

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

A=Width

A=Height

t=thickness



#### EXPERTS IN ALUMINIUM™

| Profile Code | A (mm) | A (mm) | t (mm) | Additional charge | Area<br>Flaeche (mm <sup>2</sup> ) | Weight<br>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                     |
| 04-0005      | 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                     |
| 04-0070      | 38     | 38     | 6      |                   | 420                                | 1,14                     |
| 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) |
|-----------------|-----------|-----------|-----------|----------------------|----------------------------------------------|------------------------------------|
| 04-0057         | 45        | 45        | 1,8       |                      | 159                                          | 0,43                               |
| 04-0016         | 45        | 45        | 2         |                      | 176                                          | 0,48                               |
| 04-0071         | 45        | 45        | 3         |                      | 261                                          | 0,71                               |
| 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                               |
| 04-0046         | 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                               |
| 04-0032         | 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 (Winkelprofile)

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>.

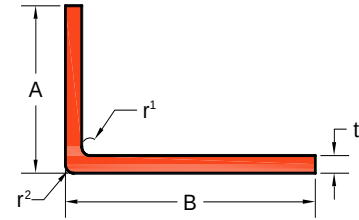
\*\* Alloy and Length is subject to customer's request.

\*\*\* 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                        |
| 05-0084      | 25     | 10     | 2      |                   | 66                                    | 0,18                        |
| 05-0002      | 25     | 15     | 2      |                   | 76                                    | 0,21                        |
| 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                        |
| 05-0006      | 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                        |
| 05-0095      | 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                        |
| 05-0012      | 40     | 20     | 3      |                   | 171                                   | 0,46                        |
| 05-0013      | 40     | 20     | 4      |                   | 224                                   | 0,60                        |
| 05-0083      | 40     | 20     | 5      |                   | 275                                   | 0,74                        |

| 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) |
|-----------------|-----------|-----------|-----------|----------------------|----------------------------------------------|------------------------------------|
| 05-0123         | 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                               |
| 05-0168         | 45        | 20        | 3         |                      | 186                                          | 0,50                               |
| 05-0018         | 45        | 30        | 3         |                      | 216                                          | 0,58                               |
| 05-0073         | 50        | 15        | 2         |                      | 126                                          | 0,34                               |
| 05-0019         | 50        | 20        | 2         |                      | 136                                          | 0,37                               |
| 05-0113         | 50        | 20        | 3         |                      | 201                                          | 0,54                               |
| 05-0076         | 50        | 25        | 2         |                      | 146                                          | 0,39                               |
| 05-0020         | 50        | 25        | 3         |                      | 216                                          | 0,58                               |
| 05-0162         | 50        | 25        | 4         |                      | 284                                          | 0,77                               |
| 05-0021         | 50        | 30        | 2         |                      | 156                                          | 0,42                               |
| 05-0022         | 50        | 30        | 3         |                      | 231                                          | 0,62                               |
| 05-0078         | 50        | 30        | 4         |                      | 304                                          | 0,82                               |
| 05-0030         | 50        | 30        | 5         |                      | 375                                          | 1,01                               |
| 05-0063         | 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                               |
| 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                               |

| 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) |
|-----------------|-----------|-----------|-----------|----------------------|----------------------------------------------|------------------------------------|
| 05-0033         | 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                               |
| 05-0118         | 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                               |
| 05-0035         | 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                               |
| 05-0178         | 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                               |
| 05-0152         | 80        | 50        | 6         |                      | 744                                          | 2,01                               |
| 05-0196         | 80        | 50        | 8         |                      | 976                                          | 2,64                               |
| 05-9001         | 80        | 60        | 3         |                      | 411                                          | 1,11                               |
| 05-0120         | 80        | 60        | 4         |                      | 544                                          | 1,47                               |
| 05-0067         | 80        | 60        | 6         |                      | 804                                          | 2,17                               |
| 05-0128         | 90        | 40        | 2         |                      | 256                                          | 0,69                               |
| 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                               |

| 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) |
|-----------------|-----------|-----------|-----------|----------------------|----------------------------------------------|------------------------------------|
| 05-0042         | 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                               |
| 05-0046         | 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                               |
| 05-0117         | 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                               |
| 05-0099         | 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                               |
| 05-0194         | 100       | 80        | 10        |                      | 1700                                         | 5,96                               |
| 05-0148         | 110       | 30        | 2         |                      | 276                                          | 0,75                               |
| 05-0199         | 110       | 40        | 3         |                      | 441                                          | 1,19                               |
| 05-0169         | 110       | 80        | 10        |                      | 1800                                         | 4,88                               |
| 05-0102         | 116       | 30        | 10        |                      | 1360                                         | 3,51                               |
| 05-0097         | 120       | 20        | 2         |                      | 276                                          | 0,75                               |
| 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                               |
| 05-0072         | 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                               |
| 05-0131         | 135       | 40        | 3         |                      | 516                                          | 1,39                               |

| 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) |
|-----------------|-----------|-----------|-----------|----------------------|----------------------------------------------|------------------------------------|
| 05-0132         | 135       | 40        | 6         |                      | 1014                                         | 2,74                               |
| 05-0139         | 135       | 100       | 5         |                      | 1150                                         | 3,11                               |
| 05-0055         | 140       | 40        | 3         |                      | 531                                          | 1,43                               |
| 05-0064         | 150       | 40        | 3         |                      | 561                                          | 1,52                               |
| 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                               |
| 05-0121         | 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                               |
| 05-0065         | 180       | 40        | 3         |                      | 651                                          | 1,77                               |
| 05-0127         | 180       | 40        | 4         |                      | 864                                          | 2,33                               |
| 05-0176         | 180       | 50        | 3         |                      | 681                                          | 1,85                               |
| 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                               |
| 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.

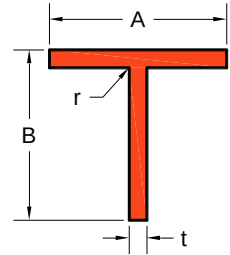
\*\*\* Radii less than 1mm are not stated.

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(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                        |
| 06-0026      | 40                 | 25                  | 2     |                   | 126                                   | 0,34                        |
| 06-0016      | 40                 | 40                  | 3     |                   | 231                                   | 0,62                        |
| 06-0001      | 40                 | 40                  | 4     |                   | 304                                   | 0,82                        |
| 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                        |
| 06-0051      | 50                 | 70                  | 4     |                   | 464                                   | 1,25                        |
| 06-0020      | 50                 | 80                  | 4     |                   | 504                                   | 1,36                        |
| 06-0003      | 50                 | 80                  | 5     |                   | 625                                   | 1,69                        |
| 06-0029      | 60                 | 40                  | 3     |                   | 291                                   | 0,79                        |
| 06-0054      | 60                 | 40                  | 4     |                   | 384                                   | 1,04                        |
| 06-0037      | 60                 | 60                  | 3     |                   | 351                                   | 0,95                        |
| 06-0005      | 60                 | 60                  | 4     |                   | 464                                   | 1,25                        |
| 06-0006      | 60                 | 60                  | 6     |                   | 684                                   | 1,85                        |
| 06-0033      | 60                 | 70                  | 4     |                   | 504                                   | 1,36                        |

| Profile<br>Code | A<br><i>Width</i><br>(mm) | B<br><i>Height</i><br>(mm) | t(mm) | Additional<br>charge | Area<br><i>Flaeche</i><br>(mm <sup>2</sup> ) | Weight<br><i>Gewicht</i><br>(Kg/m) |
|-----------------|---------------------------|----------------------------|-------|----------------------|----------------------------------------------|------------------------------------|
| 06-0007         | 60                        | 100                        | 5     |                      | 775                                          | 2,09                               |
| 06-0011         | 70                        | 50                         | 1,8   |                      | 213                                          | 0,58                               |
| 06-0032         | 70                        | 70                         | 3     |                      | 411                                          | 1,11                               |
| 06-0039         | 70                        | 70                         | 5     |                      | 675                                          | 1,82                               |
| 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                               |
| 06-0009         | 100                       | 50                         | 2     |                      | 296                                          | 0,80                               |
| 06-0025         | 100                       | 50                         | 10    |                      | 1400                                         | 3,78                               |
| 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                               |
| 06-0036         | 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                               |
| 06-0038         | 120                       | 80                         | 8     |                      | 1536                                         | 4,15                               |
| 06-0022         | 140                       | 50                         | 2     |                      | 376                                          | 1,01                               |

## 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>.

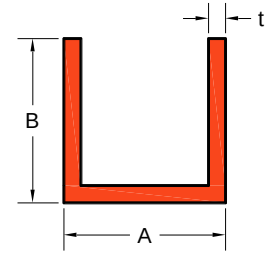
\*\* Alloy and Length is subject to customer's request.

\*\*\* 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                  |
| 07-0085      | 20     | 10     | 20     | 2      |                   | 72                              | 0,25                  |
| 07-0005      | 15     | 15     | 15     | 2      |                   | 82                              | 0,22                  |
| 07-0095      | 20     | 15     | 20     | 2      |                   | 92                              | 0,28                  |
| 07-0070      | 25     | 15     | 25     | 1,5    |                   | 78                              | 0,25                  |
| 07-0140      | 19     | 19     | 19     | 2      |                   | 106                             | 0,29                  |
| 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                  |
| 07-0006      | 20     | 25     | 20     | 2      |                   | 132                             | 0,33                  |
| 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                  |
| 07-0050      | 30     | 30     | 30     | 2      |                   | 172                             | 0,46                  |
| 07-0004      | 30     | 30     | 30     | 3      |                   | 252                             | 0,68                  |



| 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) |
|-----------------|-----------|-----------|-----------|-----------|----------------------|----------------------------------------------|------------------------------------|
| 07-0074         | 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                               |
| 07-0011         | 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                               |
| 07-0115         | 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                               |
| 07-0094         | 25        | 55        | 25        | 2         |                      | 262                                          | 0,55                               |
| 07-0096         | 45        | 55        | 45        | 2         |                      | 302                                          | 0,76                               |

| Profile Code | B (mm) | A (mm) | B (mm) | t (mm) | Additional charge | Area <i>Flaeche</i> (mm <sup>2</sup> ) | Weight <i>Gewicht</i> (Kg/m) |
|--------------|--------|--------|--------|--------|-------------------|----------------------------------------|------------------------------|
| 07-0043      | 35     | 58     | 35     | 2      |                   | 294                                    | 0,67                         |
| 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                         |
| 07-0066      | 70     | 62     | 70     | 5      |                   | 920                                    | 2,59                         |
| 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                         |
| 07-0132      | 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                         |
| 07-0045      | 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                         |
| 07-0124      | 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                         |
| 07-0017      | 40     | 100    | 40     | 3      |                   | 702                                    | 1,41                         |
| 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                         |

| 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) |
|-----------------|-----------|-----------|-----------|-----------|----------------------|----------------------------------------------|------------------------------------|
| 07-0024         | 50        | 100       | 50        | 5         |                      | 1200                                         | 2,57                               |
| 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                               |
| 07-0093         | 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                               |
| 07-0139         | 50        | 150       | 50        | 3         |                      | 1032                                         | 1,98                               |
| 07-0087         | 50        | 150       | 50        | 16        |                      | 5088                                         | 9,42                               |
| 07-0033         | 80        | 160       | 80        | 8         |                      | 3072                                         | 6,57                               |
| 07-0123         | 80        | 160       | 80        | 10        |                      | 3800                                         | 8,13                               |

## Z-Profiles

### Z-Profile

#### Notes:

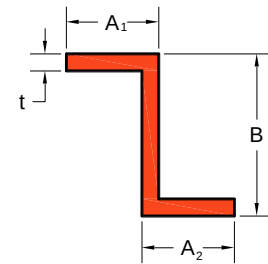
\* The weight of each profile is calculated by measuring it's cross-sectional area and multiplying it by the material density. The aluminium density is considered to be 2,70 gr/cm<sup>3</sup>.

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

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

#### EXPERTS IN ALUMINIUM™

# 08



$A_1$  = Width 1

$A_2$  = Width 2

$B$  = Height

$t$  = thickness

| Profile Code | $A_1$ (mm) | $B$ (mm) | $A_2$ (mm) | $t$ (mm) | Additional charge | Area<br>Flaeche<br>(mm <sup>2</sup> ) | Weight<br>Gewicht<br>(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                        |
| 08-0004      | 18         | 43       | 18         | 3        |                   | 219                                   | 0,59                        |
| 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                        |
| 08-0003      | 30         | 40       | 30         | 3        |                   | 282                                   | 0,76                        |
| 08-0012      | 30         | 50       | 30         | 3        |                   | 312                                   | 0,84                        |
| 08-0009      | 40         | 30       | 40         | 2        |                   | 212                                   | 0,57                        |
| 08-0002      | 40         | 40       | 40         | 3        |                   | 342                                   | 0,92                        |



## 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>.

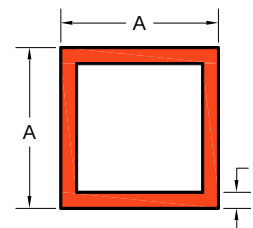
\*\* Alloy and Length is subject to customer's request.

\*\*\* 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                        |
| 09-0011      | 30     | 1,8    |                   | 203                                  | 0,45                        |
| 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                        |
| 09-0017      | 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                               |
| 09-0060         | 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                               |
| 09-0038         | 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                               |
| 09-0048         | 145       | 3         | *                    | 1704                                         | 4,60                               |
| 09-0055         | 150       | 3         | *                    | 1764                                         | 4,76                               |
| 09-0041         | 150       | 5         |                      | 2900                                         | 7,83                               |



## Rectangular tubes

### Rechteckrohre

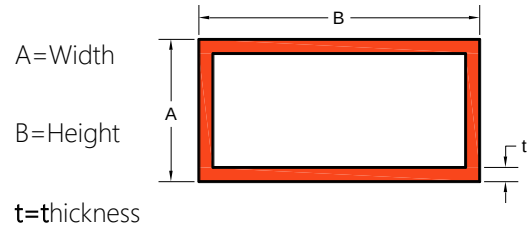
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#### Notes:

\* 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.



#### 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) |
|--------------|--------|--------|--------|-------------------|---------------------------------------|-----------------------------|
| 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                        |
| 10-0005      | 40     | 10     | 2      |                   | 184                                   | 0,50                        |
| 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) |
|-----------------|-----------|-----------|-----------|----------------------|----------------------------------------------|------------------------------------|
| 10-0020         | 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                               |
| 10-0150         | 44        | 27,5      | 1,2       |                      | 166                                          | 0,45                               |
| 10-0152         | 45        | 20        | 2         |                      | 244                                          | 0,66                               |
| 10-0105         | 45        | 25        | 2         |                      | 264                                          | 0,71                               |
| 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                               |
| 10-0110         | 50        | 25        | 3         |                      | 414                                          | 1,12                               |
| 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                               |
| 10-0146         | 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                               |
| 10-0206         | 55        | 35        | 2         |                      | 344                                          | 0,93                               |
| 10-0143         | 60        | 15        | 2         |                      | 284                                          | 0,77                               |
| 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                               |
| 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                               |



| 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) |
|-----------------|-----------|-----------|-----------|----------------------|----------------------------------------------|------------------------------------|
| 10-0038         | 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                               |
| 10-0160         | 70        | 30        | 3         |                      | 564                                          | 1,52                               |
| 10-0043         | 70        | 40        | 3         |                      | 624                                          | 1,69                               |
| 10-0163         | 70        | 40        | 4         |                      | 816                                          | 2,20                               |
| 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                               |
| 10-0192         | 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                               |
| 10-0173         | 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                               |
| 10-0124         | 100       | 18        | 1,8       |                      | 412                                          | 1,11                               |
| 10-0151         | 100       | 18        | 2         |                      | 456                                          | 1,23                               |

| 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) |
|-----------------|-----------|-----------|-----------|----------------------|----------------------------------------------|------------------------------------|
| 10-0058         | 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                               |
| 10-0174         | 100       | 80        | 5         |                      | 1700                                         | 4,59                               |
| 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                               |
| 10-0071         | 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                               |
| 10-0073         | 120       | 60        | 3         |                      | 1044                                         | 2,82                               |
| 10-0074         | 120       | 60        | 4         |                      | 1376                                         | 3,72                               |
| 10-0075         | 120       | 80        | 3         |                      | 1164                                         | 3,14                               |
| 10-0204         | 120       | 80        | 6         |                      | 2256                                         | 6,11                               |
| 10-0147         | 120       | 90        | 2         | *                    | 824                                          | 2,22                               |
| 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                               |
| 10-0077         | 140       | 18        | 2         |                      | 616                                          | 1,66                               |
| 10-0078         | 140       | 40        | 4         |                      | 1376                                         | 3,72                               |
| 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                               |

| 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) |
|-----------------|-----------|-----------|-----------|----------------------|----------------------------------------------|------------------------------------|
| 10-0079         | 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                               |
| 10-0080         | 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                               |
| 10-0141         | 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                               |
| 10-0090         | 180       | 40        | 4         |                      | 1696                                         | 4,58                               |
| 10-0091         | 180       | 50        | 4         |                      | 1776                                         | 4,80                               |
| 10-0092         | 180       | 60        | 3         |                      | 1404                                         | 3,79                               |
| 10-9001         | 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                               |
| 10-0095         | 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                               |



## 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>.

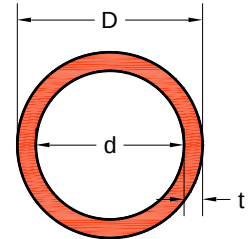
\*\* Alloy and Length is subject to customer's request.

\*\*\* 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      | *                 | acc. to EN 755-9 | 22                              | 0,06                  |
| 11-0167      | 8      | 5      | 1,5    | *                 |                  | 31                              | 0,08                  |
| 11-0078      | 10     | 8      | 1      | *                 | 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      | *                 | acc. to EN 755-9 | 31                              | 0,09                  |
| 11-0091      | 12     | 10     | 1      | *                 | acc. to EN 755-9 | 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      | *                 | acc. to EN 755-9 | 38                              | 0,10                  |
| 11-0108      | 13     | 9      | 2      |                   |                  | 69                              | 0,19                  |
| 11-0129      | 14     | 12     | 1      | *                 | acc. to EN 755-9 | 41                              | 0,11                  |
| 11-0072      | 14     | 10     | 2      |                   |                  | 75                              | 0,20                  |
| 11-0077      | 15     | 13     | 1      | *                 | acc. to EN 755-9 | 44                              | 0,12                  |
| 11-0090      | 15     | 11     | 2      |                   |                  | 82                              | 0,22                  |
| 11-0164      | 15     | 7      | 4      |                   |                  | 138                             | 0,37                  |
| 11-9004      | 16     | 14     | 1      | *                 |                  | 47                              | 0,13                  |
| 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                  |
| 11-0217      | 18     | 15     | 1,5    |                   |                  | 78                              | 0,21                  |
| 11-0070      | 18     | 14     | 2      |                   |                  | 101                             | 0,27                  |
| 11-0131      | 19     | 17     | 1      | *                 | 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                  |

| 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) |
|-----------------|-----------|-----------|-----------|---------------------------|----------------------------------------------|------------------------------------|
| 11-0107         | 20        | 18        | 1         | * <i>acc. to EN 755-9</i> | 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         | * <i>acc. to EN 755-9</i> | 66                                           | 0,18                               |
| 11-0187         | 22        | 19        | 1,5       | *                         | 97                                           | 0,26                               |
| 11-0074         | 22        | 18        | 2         |                           | 126                                          | 0,34                               |
| 11-0199         | 22        | 14        | 4         |                           | 226                                          | 0,61                               |
| 11-0216         | 22        | 12        | 5         |                           | 267                                          | 0,72                               |
| 11-9005         | 23        | 21        | 1         | *                         | 69                                           | 0,19                               |
| 11-0184         | 24        | 21        | 1,5       |                           | 106                                          | 0,29                               |
| 11-0097         | 25        | 23        | 1         | * <i>acc. to EN 755-9</i> | 75                                           | 0,20                               |
| 11-9006         | 25        | 22,6      | 1,2       | *                         | 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                               |
| 11-0168         | 27        | 23        | 2         |                           | 157                                          | 0,43                               |
| 11-0098         | 28        | 26        | 1         | * <i>acc. to EN 755-9</i> | 85                                           | 0,23                               |
| 11-0175         | 28        | 25        | 1,5       |                           | 125                                          | 0,34                               |
| 11-0086         | 28        | 24        | 2         |                           | 163                                          | 0,44                               |
| 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                               |
| 11-0099         | 32        | 30        | 1         | * <i>acc. to EN 755-9</i> | 97                                           | 0,26                               |
| 11-9014         | 32        | 29,6      | 1,2       | *                         | 116                                          | 0,31                               |
| 11-0151         | 32        | 29        | 1,5       |                           | 144                                          | 0,39                               |
| 11-0012         | 32        | 28        | 2         |                           | 188                                          | 0,51                               |
| 11-0210         | 32        | 26        | 3         |                           | 273                                          | 0,74                               |
| 11-0155         | 32        | 25        | 3,5       |                           | 313                                          | 0,85                               |
| 11-0148         | 35        | 33        | 1         | * <i>acc. to EN 755-9</i> | 107                                          | 0,29                               |
| 11-9001         | 35        | 32,4      | 1,3       | *                         | 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                               |

| 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) |
|-----------------|-----------|-----------|-----------|---------------------------|----------------------------------------------|------------------------------------|
| 11-0013         | 35        | 25        | 5         |                           | 471                                          | 1,27                               |
| 11-0179         | 35        | 17        | 9         |                           | 735                                          | 1,99                               |
| 11-0138         | 37,5      | 29,5      | 4         |                           | 421                                          | 1,14                               |
| 11-0123         | 38        | 36        | 1         | * <i>acc. to EN 755-9</i> | 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       | *                         | 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                               |
| 11-0015         | 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                               |
| 11-0198         | 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                               |
| 11-0010         | 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                               |
| 11-0183         | 46        | 38        | 4         |                           | 528                                          | 1,43                               |
| 11-0103         | 46        | 33        | 6,5       |                           | 807                                          | 2,18                               |
| 11-0019         | 48        | 44        | 2         |                           | 289                                          | 0,78                               |
| 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>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                               |

| 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) |
|-----------------|-----------|-----------|-----------|----------------------|----------------------------------------------|------------------------------------|
| 11-0026         | 50        | 42        | 4         |                      | 578                                          | 1,56                               |
| 11-0027         | 50        | 40        | 5         |                      | 707                                          | 1,91                               |
| 11-0196         | 50        | 38        | 6         |                      | 829                                          | 2,52                               |
| 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                               |
| 11-0172         | 58        | 34        | 12        |                      | 1734                                         | 4,70                               |
| 11-0028         | 60        | 57        | 1,5       | *                    | 276                                          | 0,74                               |
| 11-0029         | 60        | 56        | 2         | *                    | 364                                          | 0,98                               |
| 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                               |
| 11-0156         | 60        | 40        | 10        |                      | 1571                                         | 4,24                               |
| 11-0154         | 60        | 30        | 15        |                      | 2121                                         | 5,73                               |
| 11-0081         | 60        | 20        | 20        |                      | 2513                                         | 6,79                               |
| 11-0065         | 62,5      | 58,5      | 2         | *                    | 380                                          | 1,03                               |
| 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                               |
| 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                               |
| 11-0113         | 70        | 30        | 20        |                      | 3142                                         | 8,48                               |
| 11-9015         | 75        | 71        | 2         | *                    | 459                                          | 1,24                               |
| 11-0039         | 75        | 70        | 2,5       |                      | 569                                          | 1,54                               |
| 11-0040         | 75        | 65        | 5         |                      | 1100                                         | 2,97                               |
| 11-0071         | 75        | 45        | 15        |                      | 2827                                         | 7,63                               |
| 11-0153         | 75,5      | 69        | 3,25      |                      | 738                                          | 1,99                               |
| 11-0137         | 76        | 71        | 2,5       |                      | 577                                          | 1,56                               |

| 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) |
|-----------------|-----------|-----------|-----------|----------------------|----------------------------------------------|------------------------------------|
| 11-0068         | 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                               |
| 11-0197         | 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                               |
| 11-0044         | 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                               |
| 11-9009         | 93        | 89        | 2         | *                    | 572                                          | 1,54                               |
| 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                               |
| 11-0214         | 100       | 70        | 15        |                      | 4006                                         | 10,82                              |
| 11-9011         | 105       | 101       | 2         | *                    | 647                                          | 1,75                               |
| 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                               |
| 11-0188         | 110       | 90        | 10        |                      | 3142                                         | 8,51                               |
| 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                               |



| 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) |
|-----------------|-----------|-----------|-----------|----------------------|----------------------------------------------|------------------------------------|
| 11-0177         | 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                               |
| 11-0116         | 133       | 127       | 3         | *                    | 1225                                         | 3,31                               |
| 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                               |
| 11-0112         | 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                               |
| 11-9012         | 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                               |
| 11-0106         | 180       | 170       | 5         | *                    | 2749                                         | 7,42                               |
| 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.

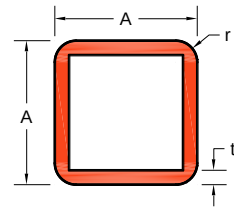
\*\*\* Radii less than 1mm are not stated.

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>Fläche<br>(mm <sup>2</sup> ) | Weight<br>Gewicht<br>(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    | 2                       |                   | 222                                  | 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                        |
| 12-0011      | 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                        |
| 12-0018      | 60     | 4,3    | 10                      |                   | 872                                  | 2,47                        |
| 12-0029      | 70     | 2      | 4                       |                   | 530                                  | 1,45                        |
| 12-0020      | 70     | 2,5    | 4                       |                   | 661                                  | 1,80                        |
| 12-0004      | 80     | 4      | 6                       |                   | 1185                                 | 3,22                        |
| 12-0019      | 90     | 4      | 3                       |                   | 1368                                 | 3,70                        |

| 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) |
|-----------------|-----------|-----------|----------------------------|----------------------|----------------------------------------------|------------------------------------|
| 12-0015         | 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.

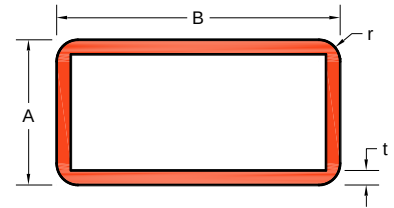
\*\*\* Radii less than 1mm are not stated.

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<br>Fläche<br>(mm <sup>2</sup> ) | Weight<br>Gewicht<br>(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                        |
| 13-0010      | 40     | 25     | 2      | 5                       |                   | 223                                  | 0,62                        |
| 13-0024      | 40     | 25     | 2      | 3                       |                   | 236                                  | 0,64                        |
| 13-0011      | 40     | 30     | 2      | 5                       |                   | 243                                  | 0,68                        |
| 13-0012      | 50     | 30     | 2      | 2                       |                   | 301                                  | 0,81                        |
| 13-0015      | 50     | 30     | 3      | 3                       |                   | 436                                  | 1,18                        |
| 13-0019      | 50     | 30     | 3      | 6                       |                   | 413                                  | 1,14                        |
| 13-0021      | 60     | 30     | 2      | 3                       |                   | 336                                  | 0,91                        |
| 13-9002      | 60     | 30     | 2,6    | 3                       |                   | 433                                  | 1,18                        |
| 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                        |
| 13-0022      | 60     | 40     | 4      | 4                       |                   | 722                                  | 2,00                        |
| 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                        |
| 13-0014      | 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                        |