



STANDARD
PROFILES





Extruded alloys- tempers & mechanical properties:

Standard alloys in production include:

| Alloy chemical composition as per EN 573-3 | | | | | | | | | | | |
|---|-----------|-----------|-----------|-----------|-----------|-----------|------|------|-------|-------|------|
| Alloy | Si | Fe | Cu | Mn | Mg | Cr | Zn | Ti | Other | | Al |
| | | | | | | | | | Each | Total | |
| 6060 AlMgSi _{0,5} DIN3.3206 | 0,30-0,60 | 0,10-0,30 | 0,10 | 0,10 | 0,35-0,60 | 0,05 | 0,15 | 0,10 | 0,05 | 0,15 | Rest |
| 6063 AlMg _{0,7} Si | 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 |
| 6005A AlMgSi _{0,7} DIN3.3210 | 0,50-0,90 | 0,35 | 0,30 | 0,50 | 0,40-0,70 | 0,30 | 0,20 | 0,10 | 0,05 | 0,15 | Rest |
| 6082 AlSi ₁ MgMn DIN3.2315 | 0,70-1,30 | 0,50 | 0,10 | 0,40-1,00 | 0,60-1,20 | 0,25 | 0,20 | 0,10 | 0,05 | 0,15 | Rest |
| 6061* AlMg ₁ SiCu DIN3.3211 | 0,40-0,80 | 0,70 | 0,15-0,40 | 0,15 | 0,80-1,20 | 0,04-0,35 | 0,25 | 0,15 | 0,05 | 0,15 | Rest |

* Available with a prior notice of 5 weeks

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

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

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

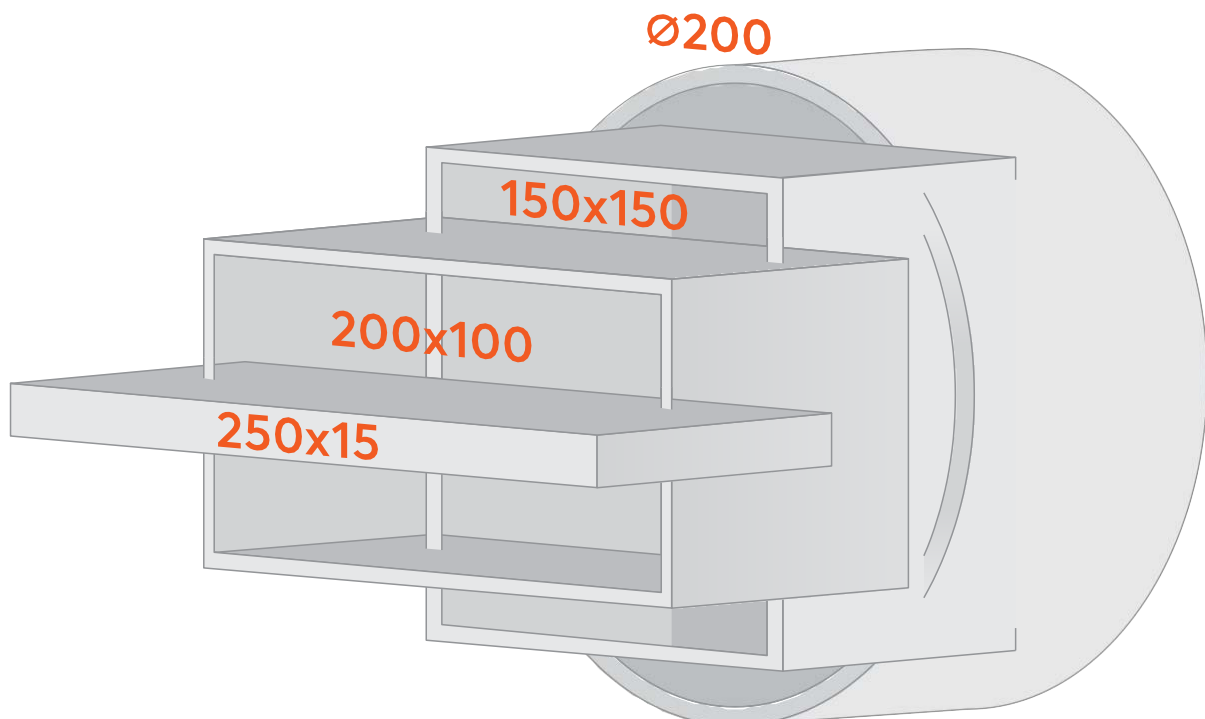
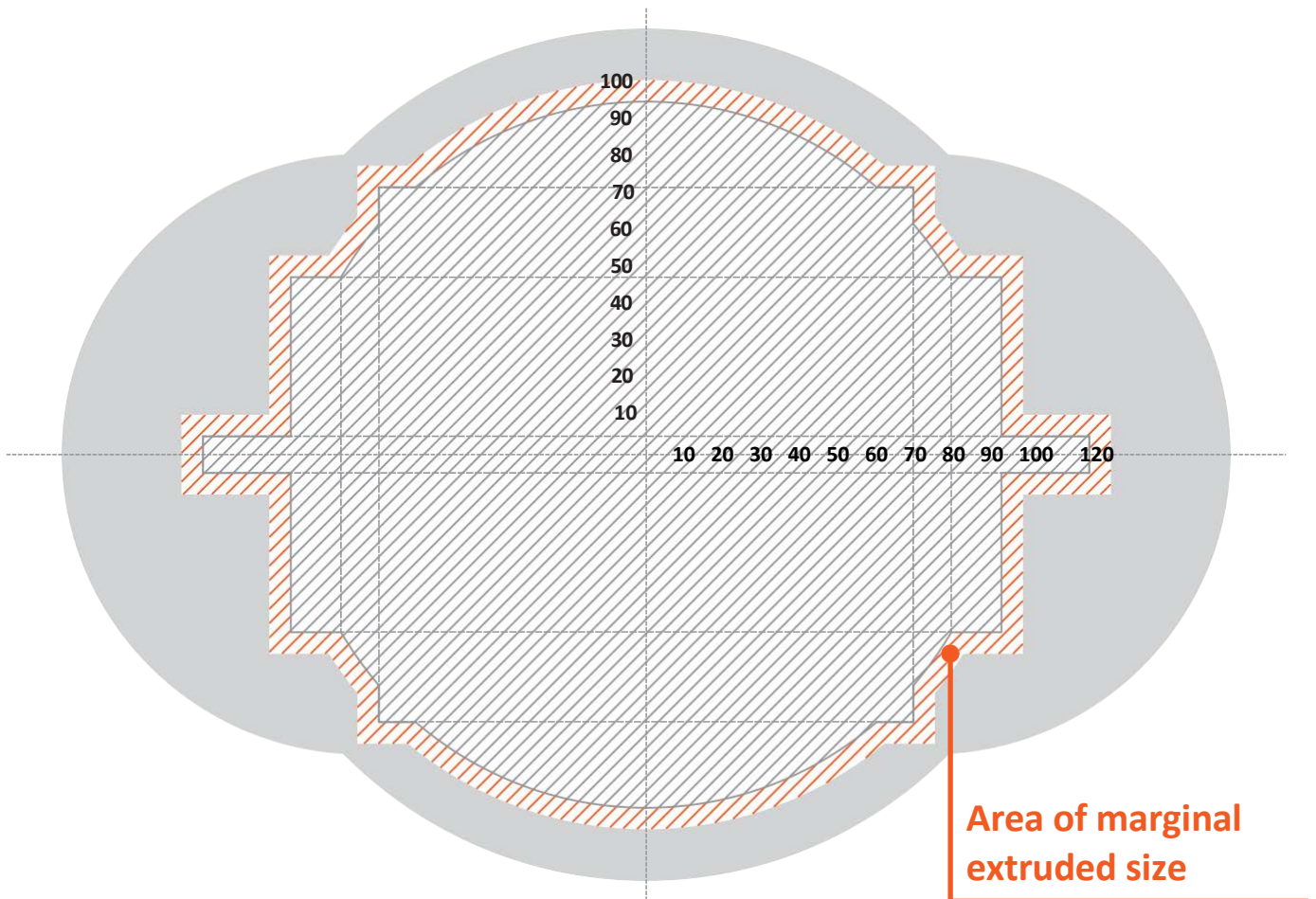
| Physical properties | Alloys EN-AW | | | | |
|------------------------------------|--------------|-------|---------|---------|---------|
| Alloys EN-AW | 6060 | 6063 | 6005A | 6082 | 6061 |
| Melting range °C | 585-650 | | 585-650 | 585-650 | 580-640 |
| Density g/cm ³ | 2,70 | 2,70 | 2,70 | 2,70 | 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 ⁻⁶ /K) | 21,8 | 23,4 | 23,4 | 23,4 | 23,0 |
| 20 to 100 °C (10 ⁻⁶ /K) | 23,4 | | | | |
| 20 to 200 °C (10 ⁻⁶ /K) | 24,5 | | | | |
| 20 to 300 °C (10 ⁻⁶ /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 _{50mm} % min | |
| | | e mm* | R _m MPa min | R _{p0,2} MPa min | | | HB** |
| EN-AW 6060 | T4 | e ≤ 25 | 120 | 60 | 16 | 14 | 50 |
| | T5 | e ≤ 5 | 160 | 120 | 8 | 6 | 60 |
| | | 5 < e ≤ 25 | 140 | 100 | 8 | 6 | 60 |
| | T6 | e ≤ 5 | 190 | 150 | 8 | 6 | 60 |
| | | 5 < e ≤ 25 | 170 | 140 | 8 | 6 | 60 |
| | T64 | e ≤ 15 | 180 | 120 | 12 | 10 | 60 |
| | T66 | e ≤ 5 | 215 | 160 | 8 | 6 | 75 |
| | | 5 < e ≤ 25 | 195 | 150 | 8 | 6 | 75 |
| EN-AW 6063 | T4 | e ≤ 25 | 130 | 65 | 14 | 12 | 50 |
| | T5 | e ≤ 10 | 175 | 130 | 8 | 6 | 65 |
| | | 10 < e ≤ 25 | 160 | 110 | 7 | 5 | 65 |
| | T6 | e ≤ 10 | 215 | 170 | 8 | 6 | 75 |
| | | 10 < e ≤ 25 | 195 | 160 | 8 | 6 | 75 |
| | T66 | e ≤ 10 | 245 | 200 | 8 | 6 | 80 |
| | | 10 < e ≤ 25 | 225 | 180 | 8 | 6 | 80 |
| EN-AW 6005A | T4 open | e ≤ 25 | 180 | 90 | 15 | 13 | 50 |
| | T4 hollow | e ≤ 10 | 180 | 90 | 15 | 13 | 50 |
| | T6 open | e ≤ 5 | 270 | 225 | 8 | 6 | 90 |
| | | 5 < e ≤ 10 | 260 | 215 | 8 | 6 | 85 |
| | | 10 < e ≤ 25 | 250 | 200 | 8 | 6 | 85 |
| | T6 hollow | e ≤ 5 | 255 | 215 | 8 | 6 | 85 |
| | | 5 < e ≤ 15 | 250 | 200 | 8 | 6 | 85 |
| EN-AW 6082 | T4 | e ≤ 25 | 205 | 110 | 14 | 12 | 35 |
| | T5 open | e ≤ 5 | 270 | 230 | 8 | 6 | 90 |
| | | hollow | e ≤ 5 | 270 | 230 | 8 | 6 |
| | T6 open | e ≤ 5 | 290 | 250 | 8 | 6 | 95 |
| | | 5 < e ≤ 25 | 310 | 260 | 10 | 8 | 95 |
| | T6 hollow | e ≤ 5 | 290 | 250 | 8 | 6 | 95 |
| | | 5 < e ≤ 15 | 310 | 260 | 10 | 8 | 95 |
| EN-AW 6061 | T4 | e ≤ 25 | 180 | 110 | 15 | 13 | 65 |
| | T6 | e ≤ 5 | 260 | 240 | 9 | 7 | 95 |
| | | 5 < e ≤ 25 | 260 | 240 | 10 | 8 | 95 |

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

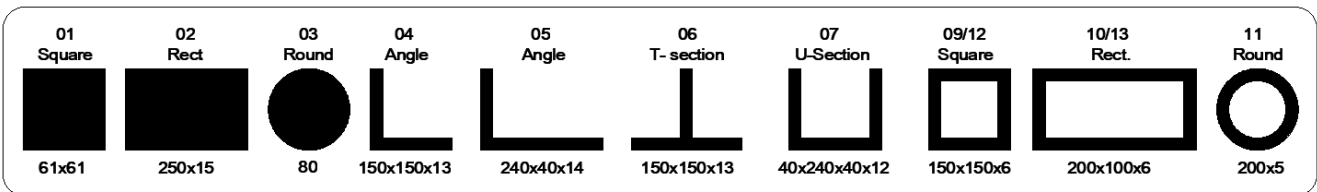


Profile size production range



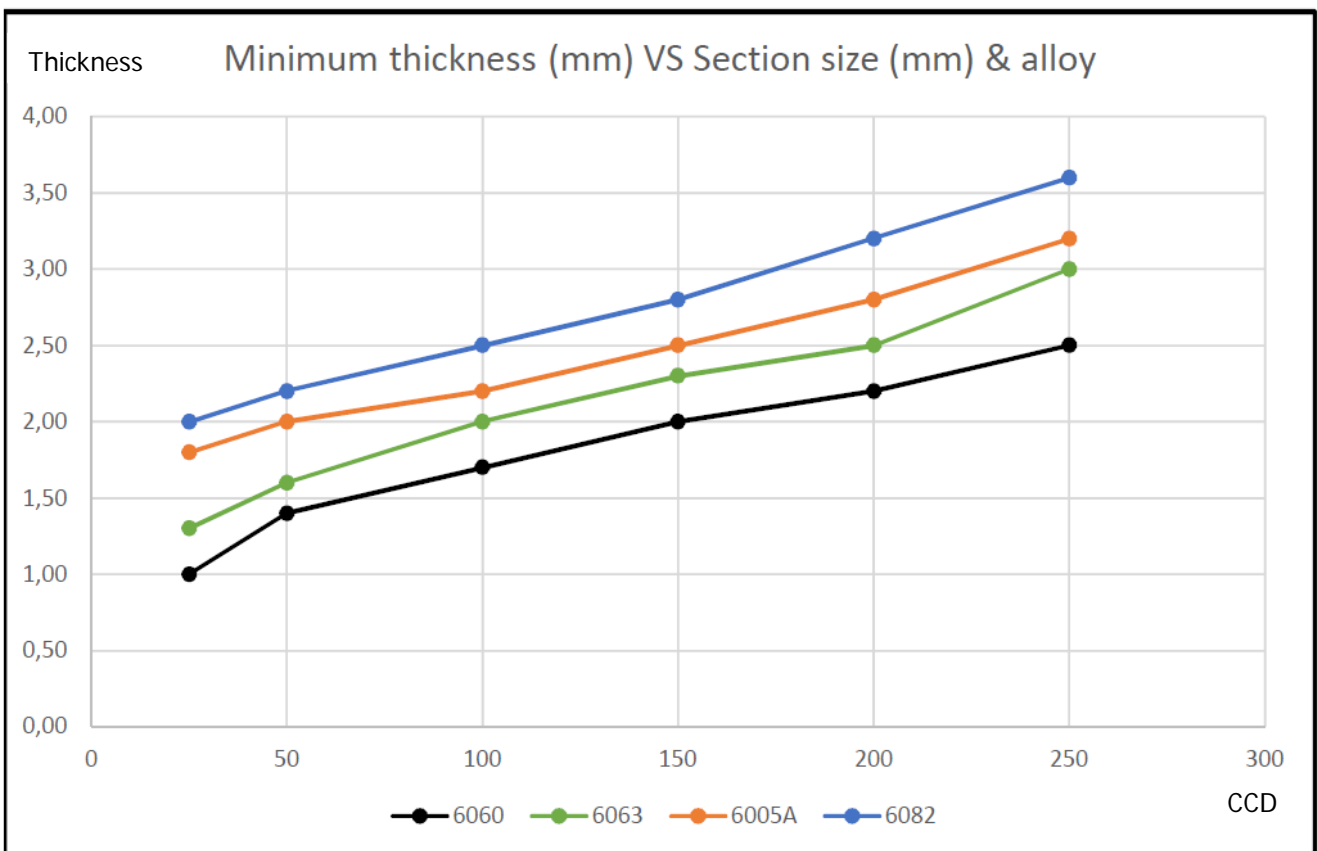
| | | | |
|------------------------------------|-------------------|---------------------|----------------|
| In tubes | ∅200 x 5 mm | Weight range | |
| In square hollow sections | 150 x 150 x 6 mm | | |
| In rectangular hollow sections | 200 x 100 x 6 mm | | |
| In equal leg angles and T sections | 150 x 150 x 13 mm | | |
| In unequal leg angles and channels | 240 x 40 x 12 mm | Minimum | Maximum |
| In rectangular (flat) bars | 250 x 15 mm | | |
| In square bars | 70 x 70 mm | | |
| In round bars | ∅80 mm | | |
| | | | |

Schematic extrusion maximums per shape



Thickness vs Alloy

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





Product forms & Applications

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

Quality control

We follow the European norms for:

| EN Standard | Description |
|---|--|
| Aluminium & aluminium alloys- Extruded rod/bar, tubes and profiles | |
| 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) |
| Metallic products- materials | |
| EN ISO 6892-1 | Tensile testing- part 1: Method of test at room temperature |
| EN- 10204 | Inspection certificates 2.3, 3.1, 3.2 |
| On special request | |
| ASTM B 221M-07 (Metric) | Standard specification for Aluminium and Aluminium alloy Extruded Bars, Rods, Wire, Profiles and Tubes |
| ASTM B 429M- 06 | Standard specification for Aluminium alloy Extruded Structural Pipe or Tube. |
| BS EN ISO 8493:2004 | Tube- Drift- expanding test |



Certifications

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



Square bars

01



Notes:

* The weight of each profile is calculated by measuring its cross-sectional area and multiplying it by the material density. The aluminium density is considered to be 2,70 gr/cm³.

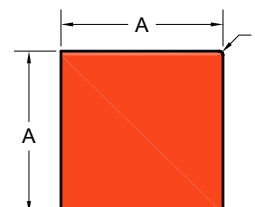
** Alloy and Length is subject to customer's request.

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

A=Width

A=Height

r=Corner radius



EXPERTS IN ALUMINIUM™

| Profile Code | Description | Additional charge | Weight Gewicht (Kg/m) |
|--------------|----------------------------|-------------------|-----------------------------|
| 01-0806 | SQUARE BAR 1/2" x 1/2" | | 0,44 |
| 01-0803 | SQUARE BAR 1" x 1" | | 1,74 |
| 01-0804 | SQUARE BAR 1.1/2" x 1.1/2" | | 3,92 |
| 01-0802 | SQUARE BAR 2" x 2" | | 6,97 |
| 01-0801 | SQUARE BAR 2.1/4" x 2.1/4" | | 8,82 |
| 01-0805 | SQUARE BAR 2.1/2" x 2.1/2" | | 10,89 |

Rectangular bars (Flat bars)

02



Notes:

* The weight of each profile is calculated by measuring its cross-sectional area and multiplying it by the material density. The aluminium density is considered to be 2,70 gr/cm³.

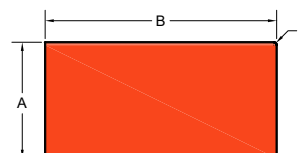
** Alloy and Length is subject to customer's request.

*** Corner Radii 0,0118 inch or 0,3 mm.

A=Height

B=Width

r=Corner radius



EXPERTS IN ALUMINIUM™

| Profile Code | Description | Additional charge | Weight Gewicht (Kg/m) |
|--------------|--------------------------|-------------------|-----------------------------|
| 02-0859 | FLAT BAR 5/8" x 1/8" | | 0,136 |
| 02-0880 | FLAT BAR 3/4"x1/16" | | 0,082 |
| 02-0801 | FLAT BAR 3/4" x 1/8" | | 0,163 |
| 02-0870 | FLAT BAR 3/4" x 3/16" | | 0,246 |
| 02-0832 | FLAT BAR 3/4" x 3/8" | | 0,489 |
| 02-0847 | FLAT BAR 3/4" x 1/2" | | 0,653 |
| 02-0823 | FLAT BAR 1" x 1/8" | | 0,218 |
| 02-0866 | FLAT BAR 1" x 3/16" | | 0,328 |
| 02-0807 | FLAT BAR 1" x 1/4" | | 0,435 |
| 02-0860 | FLAT BAR 1" x 1/2" | | 0,871 |
| 02-0861 | FLAT BAR 1" x 3/4" | | 1,306 |
| 02-0845 | FLAT BAR 1" x 1.1/4" | | 2,177 |
| 02-0835 | FLAT BAR 1.1/4" x 1/8" | | 0,272 |
| 02-0862 | FLAT BAR 1.1/4" x 1/4" | | 0,545 |
| 02-0848 | FLAT BAR 1.1/4" x 3/4" | | 1,633 |
| 02-0883 | FLAT BAR 1.1/4" x 1" | | 2,176 |
| 02-0844 | FLAT BAR 1.1/2" x 1/8" | | 0,326 |
| 02-0808 | FLAT BAR 1.1/2" x 1/4" | | 0,653 |
| 02-0809 | FLAT BAR 1.1/2" x 3/8" | | 0,98 |
| 02-0836 | FLAT BAR 1.1/2" x 1/2" | | 1,306 |
| 02-0877 | FLAT BAR 1.1/2" x 5/8" | | 1,633 |
| 02-0863 | FLAT BAR 1.1/2" x 3/4" | | 1,96 |
| 02-0824 | FLAT BAR 1.1/2" x 1" | | 2,613 |
| 02-0840 | FLAT BAR 1.1/2" x 1.1/4" | | 3,267 |
| 02-0846 | FLAT BAR 1.3/4" x 1/4" | | 0,762 |
| 02-0885 | FLAT BAR 1.3/4" x 3/4" | | 2,286 |
| 02-0881 | FLAT BAR 1.3/4" x 1" | | 3,048 |
| 02-0841 | FLAT BAR 1.3/4" x 1.1/4" | | 3,81 |

| Profile Code | Description | Additional charge | Weight Gewicht (Kg/m) |
|--------------|--------------------------|-------------------|-----------------------------|
| 02-0825 | FLAT BAR 2" x 1/8" | | 0,436 |
| 02-0826 | FLAT BAR 2" x 3/16" | | 0,653 |
| 02-0802 | FLAT BAR 2" x 1/4" | | 0,871 |
| 02-0810 | FLAT BAR 2" x 3/8" | | 1,306 |
| 02-0818 | FLAT BAR 2" x 1/2" | | 1,742 |
| 02-0856 | FLAT BAR 2" x 5/8" | | 2,177 |
| 02-0864 | FLAT BAR 2" x 3/4" | | 2,613 |
| 02-0811 | FLAT BAR 2" x 1" | | 3,483 |
| 02-0842 | FLAT BAR 2" x 1.1/4" | | 4,355 |
| 02-0812 | FLAT BAR 2" x 1.1/2" | | 5,226 |
| 02-0852 | FLAT BAR 2.1/4" x 3/4" | | 2,939 |
| 02-0865 | FLAT BAR 2.1/4" x 1.1/4" | | 4,899 |
| 02-0879 | FLAT BAR 2.1/2" x 1/8" | | 0,544 |
| 02-0837 | FLAT BAR 2.1/2" x 1/4" | | 1,088 |
| 02-0834 | FLAT BAR 2.1/2" x 3/8" | | 1,633 |
| 02-0831 | FLAT BAR 2.1/2" x 1/2" | | 2,177 |
| 02-0876 | FLAT BAR 2.1/2" x 5/8" | | 2,722 |
| 02-0819 | FLAT BAR 2.1/2" x 1" | | 4,355 |
| 02-0886 | FLAT BAR 2.1/2" x 1.1/4" | | 5,443 |
| 02-0822 | FLAT BAR 2.1/2" x 1.1/2" | | 6,532 |
| 02-0843 | FLAT BAR 2.1/2" x 2" | | 8,71 |
| 02-0827 | FLAT BAR 3" x 1/4" | | 1,306 |
| 02-0803 | FLAT BAR 3" x 3/8" | | 1,96 |
| 02-0828 | FLAT BAR 3" x 1/2" | | 2,611 |
| 02-0857 | FLAT BAR 3" x 5/8" | | 3,266 |
| 02-0887 | FLAT BAR 3" x 3/4" | | 3,919 |
| 02-0820 | FLAT BAR 3" x 1" | | 5,225 |
| 02-0853 | FLAT BAR 3" x 1.1/4" | | 6,532 |
| 02-0849 | FLAT BAR 3" x 1.1/2" | | 7,838 |
| 02-0838 | FLAT BAR 3" x 2" | | 10,451 |
| 02-0890 | FLAT BAR 3.1/2" x 1/2" | | 3,048 |
| 02-0850 | FLAT BAR 3.1/2" x 1" | | 6,097 |
| 02-0854 | FLAT BAR 3.1/2" x 1.1/2" | | 9,145 |
| 02-0888 | FLAT BAR 3.1/2" x 2" | | 12,193 |
| 02-0806 | FLAT BAR 4" x 1/4" | | 1,742 |
| 02-0813 | FLAT BAR 4" x 3/8" | | 2,613 |
| 02-0804 | FLAT BAR 4" x 1/2" | | 3,484 |
| 02-0839 | FLAT BAR 4" x 5/8" | | 4,355 |
| 02-0829 | FLAT BAR 4" x 3/4" | | 5,225 |
| 02-0821 | FLAT BAR 4" x 1" | | 6,967 |
| 02-0833 | FLAT BAR 4" x 1.1/4" | | 8,71 |

| Profile Code | Description | Additional charge | Weight Gewicht (Kg/m) |
|--------------|----------------------|-------------------|-----------------------------|
| 02-0873 | FLAT BAR 4" x 1.1/2" | | 10,451 |
| 02-0871 | FLAT BAR 4" x 1.3/4" | | 12,193 |
| 02-0872 | FLAT BAR 4" x 2" | | 13,935 |
| 02-0814 | FLAT BAR 5" x 1/4" | | 2,177 |
| 02-0858 | FLAT BAR 5" x 1/2" | | 4,355 |
| 02-0874 | FLAT BAR 5" x 3/4" | | 6,532 |
| 02-0851 | FLAT BAR 5" x 1" | | 8,71 |
| 02-0878 | FLAT BAR 5" x 1.1/4" | | 10,887 |
| 02-0805 | FLAT BAR 6" x 1/4" | | 2,613 |
| 02-0815 | FLAT BAR 6" x 3/8" | | 3,919 |
| 02-0816 | FLAT BAR 6" x 1/2" | | 5,226 |
| 02-0875 | FLAT BAR 6" x 3/4" | | 7,838 |
| 02-0817 | FLAT BAR 6" x 1" | | 10,452 |
| 02-0889 | FLAT BAR 8" x 1/2" | | 6,968 |

Round bars (Rods)

03

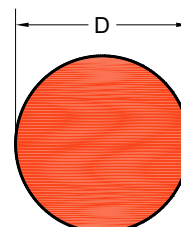


Notes:

* 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/cm³.

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

D = Diameter



EXPERTS IN ALUMINIUM™

| Profile Code | Description | Additional charge | Weight Gewicht (Kg/m) |
|--------------|-------------------------|-------------------|-----------------------------|
| 03-0805 | ROUND BAR Φ 1/2" | | 0,34 |
| 03-0807 | ROUND BAR Φ 5/8" | | 0,54 |
| 03-0806 | ROUND BAR Φ 3/4" | | 0,77 |
| 03-0808 | ROUND BAR Φ 7/8" | | 1,05 |
| 03-0801 | ROUND BAR Φ 1" | | 1,37 |
| 03-0819 | ROUND BAR Φ 1.1/8" | | 1,73 |
| 03-0804 | ROUND BAR Φ 1.1/4" | | 2,14 |
| 03-0809 | ROUND BAR Φ 1.3/8" | | 2,59 |
| 03-0810 | ROUND BAR Φ 1.1/2" | | 3,08 |
| 03-0817 | ROUND BAR Φ 1.5/8" | | 3,61 |
| 03-0802 | ROUND BAR Φ 1.3/4" | | 4,19 |
| 03-0811 | ROUND BAR Φ 1.7/8" | | 4,81 |
| 03-0803 | ROUND BAR Φ 2" | | 5,47 |
| 03-0816 | ROUND BAR Φ 2.1/8" | | 6,20 |
| 03-0815 | ROUND BAR Φ 2.1/4" | | 6,93 |
| 03-0812 | ROUND BAR Φ 2.3/8" | | 7,72 |
| 03-0813 | ROUND BAR Φ 2.1/2" | | 8,55 |
| 03-0814 | ROUND BAR Φ 2.3/4" | | 10,35 |
| 03-0818 | ROUND BAR Φ 3" | | 12,31 |

Symmetrical L-Profiles (Angles)

04



Notes:

* The weight of each profile is calculated by measuring its cross-sectional area and multiplying it by the material density. The aluminium density is considered to be 2,70 gr/cm³.

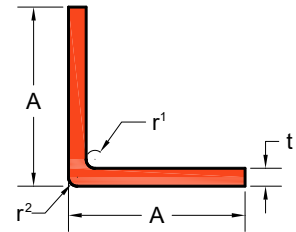
** Alloy and Length is subject to customer's request.

*** Corner Radii 0,0118 inch or 0,3 mm.

A=Width

A=Height

t=thickness



EXPERTS IN ALUMINIUM™

| Profile Code | Description | Additional charge | Weight Gewicht (Kg/m) |
|--------------|--------------------------------|-------------------|-----------------------------|
| 04-0822 | SYM. L 3/4" x 3/4" x 1/8" | | 0,30 |
| 04-0816 | SYM. L 1" x 1" x 1/16" | | 0,21 |
| 04-0801 | SYM. L 1" x 1" x 1/8" | | 0,41 |
| 04-0811 | SYM. L 1" x 1" x 3/16" | | 0,59 |
| 04-0819 | SYM. L 1" x 1" x 1/4" | | 0,76 |
| 04-0818 | SYM. L 1.1/4" x 1.1/4" x 1/16" | | 0,27 |
| 04-0807 | SYM. L 1.1/4" x 1.1/4" x 1/8" | | 0,52 |
| 04-0820 | SYM. L 1.1/4" x 1.1/4" x 1/4" | | 0,98 |
| 04-0828 | SYM. L 1.1/2" x 1.1/2" x 1/16" | | 0,32 |
| 04-0802 | SYM. L 1.1/2" x 1.1/2" x 1/8" | | 0,63 |
| 04-0817 | SYM. L 1.1/2" x 1.1/2" x 3/16" | | 0,92 |
| 04-0803 | SYM. L 1.1/2" x 1.1/2" x 1/4" | | 1,20 |
| 04-0824 | SYM. L 1.3/4" x 1.3/4" x 3/16" | | 1,08 |
| 04-0823 | SYM. L 2" x 2" x 1/16" | | 0,43 |
| 04-0804 | SYM. L 2" x 2" x 1/8" | | 0,84 |
| 04-0813 | SYM. L 2" x 2" x 3/16" | | 1,24 |
| 04-0805 | SYM. L 2" x 2" x 1/4" | | 1,63 |
| 04-0821 | SYM. L 2" x 2" x 3/8" | | 2,37 |
| 04-0815 | SYM. L 2.1/2" x 2.1/2" x 3/16" | | 1,57 |
| 04-0809 | SYM. L 2.1/2" x 2.1/2" x 1/4" | | 2,07 |
| 04-0808 | SYM. L 3" x 3" x 1/8" | | 1,28 |
| 04-0806 | SYM. L 3" x 3" x 1/4" | | 2,50 |
| 04-0810 | SYM. L 3" x 3" x 3/8" | | 3,67 |
| 04-0825 | SYM. L 3.1/2" x 3.1/2" x 1/4" | | 2,94 |
| 04-0814 | SYM. L 4" x 4" x 1/4" | | 3,38 |
| 04-0812 | SYM. L 4" x 4" x 3/8" | | 4,98 |

Asymmetrical L-Profiles (Angles)

05



Notes:

* The weight of each profile is calculated by measuring its cross-sectional area and multiplying it by the material density. The aluminium density is considered to be 2,70 gr/cm³.

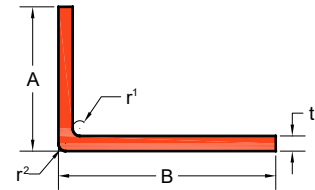
** Alloy and Length is subject to customer's request.

*** Corner Radii 0,0118 inch or 0,3 mm.

A=Height

B=Width

t=thickness



EXPERTS IN ALUMINIUM™

| Profile Code | Description | Additional charge | Weight Gewicht (Kg/m) |
|--------------|---------------------------------|-------------------|-----------------------------|
| 05-0806 | ASYM. L 1" x 1/2" x 1/16" | | 0,16 |
| 05-0820 | ASYM. L 1" x 5/8" x 1/8" | | 0,33 |
| 05-0823 | ASYM. L 1.1/2" x 3/4" x 1/8" | | 0,46 |
| 05-0822 | ASYM. L 1.1/2" x 3/4" x 1/4" | | 0,87 |
| 05-0808 | ASYM. L 1.1/2" x 1" x 1/8" | | 0,52 |
| 05-0801 | ASYM. L 2" x 1" x 1/8" | | 0,63 |
| 05-0809 | ASYM. L 2" x 1" x 1/4" | | 1,20 |
| 05-0813 | ASYM. L 2" x 1.1/2" x 1/8" | | 0,73 |
| 05-0810 | ASYM. L 2" x 1.1/2" x 1/4" | | 1,42 |
| 05-0821 | ASYM. L 2.1/2" x 1.1/2" x 3/16" | | 1,25 |
| 05-0807 | ASYM. L 3" x 1" x 1/8" | | 0,84 |
| 05-0811 | ASYM. L 3" x 1.1/2" x 1/8" | | 0,95 |
| 05-0812 | ASYM. L 3" x 2" x 1/8" | | 1,06 |
| 05-0805 | ASYM. L 3" x 2" x 3/16" | | 1,57 |
| 05-0802 | ASYM. L 3" x 2" x 1/4" | | 2,07 |
| 05-0819 | ASYM. L 4" x 1" x 1/8" | | 1,07 |
| 05-0803 | ASYM. L 4" x 2" x 1/4" | | 2,50 |
| 05-0804 | ASYM. L 4" x 3" x 1/4" | | 2,94 |
| 05-0816 | ASYM. L 5" x 2" x 3/8" | | 4,34 |
| 05-0817 | ASYM. L 5" x 3" x 1/4" | | 3,39 |
| 05-0818 | ASYM. L 6" x 3" x 1/4" | | 3,82 |
| 05-0815 | ASYM. L 6" x 3" x 3/8" | | 5,66 |
| 05-0814 | ASYM. L 7" x 3" x 3/8" | | 6,31 |

T-Profiles

06



Notes:

* The weight of each profile is calculated by measuring its cross-sectional area and multiplying it by the material density. The aluminium density is considered to be 2,70 gr/cm³.

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

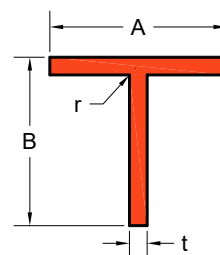
*** Corner Radii 0,0118 inch or 0,3 mm (otherwise stated).

A=Width

B=Height

t=thickness

r=Corner radius



EXPERTS IN ALUMINIUM™

| Profile Code | Description | Additional charge | Weight Gewicht (Kg/m) |
|--------------|------------------|-------------------|-----------------------------|
| 06-0801 | T 3" x 3" x 1/4" | | 2,50 |

U-Profiles (U-Channels)

07



Notes:

* The weight of each profile is calculated by measuring its cross-sectional area and multiplying it by the material density. The aluminium density is considered to be 2,70 gr/cm³.

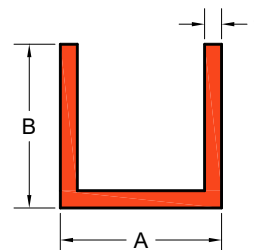
** Alloy and Length is subject to customer's request.

*** Corner Radii 0,0118 inch or 0,3 mm (otherwise stated)

A = Width

B = Height

t = thickness



EXPERTS IN ALUMINIUM™

| Profile Code | Description | Additional charge | Weight Gewicht (Kg/m) |
|--------------|-----------------------------------|-------------------|-----------------------------|
| 07-0801 | U 1" x 3/4" x 1" x 1/16" | | 0,37 |
| 07-0807 | U 2" x 1" x 2" x 1/8" | | 1,03 |
| 07-0813 | U 1.1/4" x 1.1/4" x 1.1/4" x 1/8" | | 0,76 |
| 07-0806 | U 1" x 2" x 1" x 1/8" | | 0,82 |
| 07-0808 | U 2"x 2" x 2" x 1/8" | | 1,25 |
| 07-0804 | U 5" x 2.3/4" x 3/16" x 5/16" | | 4,49 |
| 07-0805 | U 1" x 4" x 1" x 1/8" | | 1,20 |
| 07-0802 | U 2" x 4" x 1/4" x 2" x 5/16" | | 3,65 |
| 07-0803 | U 2" x 3/8" x 6" x 1/4" | | 4,92 |



Notes:

* The weight of each profile is calculated by measuring its cross-sectional area and multiplying it by the material density. The aluminium density is considered to be 2,70 gr/cm³.

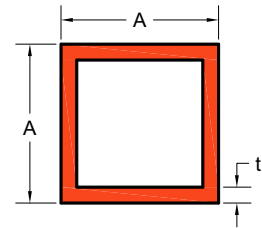
** Alloy and Length is subject to customer's request.

*** Corner Radii 0,0118 inch or 0,3 mm (otherwise stated).

A = Width

A = Height

t = Thickness



EXPERTS IN ALUMINIUM™

| Profile Code | Description | Additional charge | Weight Gewicht (Kg/m) |
|--------------|----------------------------------|-------------------|-----------------------------|
| 09-0811 | SQ. TUBE 1/2" x 1/2" x 16SWG | | 0,19 |
| 09-0809 | SQ. TUBE 3/4" x 3/4" x 16SWG | | 0,31 |
| 09-0808 | SQ. TUBE 1" x 1" x 16SWG | | 0,42 |
| 09-0802 | SQ. TUBE 1" x 1" x 10SWG | | 0,78 |
| 09-0814 | SQ. TUBE 1.1/4" x 1.1/4" x 16SWG | | 0,53 |
| 09-0803 | SQ. TUBE 1.1/4" x 1.1/4" x 10SWG | | 1,00 |
| 09-0813 | SQ. TUBE 1.1/2" x 1.1/2" x 16SWG | | 0,64 |
| 09-0810 | SQ. TUBE 1.1/2" x 1.1/2" x 10SWG | | 1,22 |
| 09-0815 | SQ. TUBE 1.1/2" x 1.1/2" x 4mm | | 1,49 |
| 09-0801 | SQ. TUBE 2" x 2" x 10SWG | | 1,67 |
| 09-0806 | SQ. TUBE 2" x 2" x 1/4" | | 3,05 |
| 09-0812 | SQ. TUBE 2.1/2" x 2.1/2" x 10SWG | | 2,12 |
| 09-0804 | SQ. TUBE 3" x 3" x 10SWG | | 2,56 |
| 09-0816 | SQ.TUBE 3" x 3" x 1/4" | | 4,79 |
| 09-0805 | SQ. TUBE 4" x 4" x 10SW | | 3,45 |
| 09-0807 | SQ. TUBE 4" x 4" x 1/4" | | 6,53 |

Rectangular tubes

10



Notes:

* The weight of each profile is calculated by measuring its cross-sectional area and multiplying it by the material density. The aluminium density is considered to be 2,70 gr/cm³.

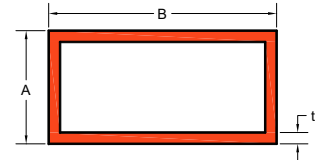
** Alloy and Length is subject to customer's request.

*** Corner Radii 0,0118 inch or 0,3 mm (otherwise stated).

A=Width

B=Height

t=thickness



EXPERTS IN ALUMINIUM™

| Profile Code | Description | Additional charge | Weight Gewicht (Kg/m) |
|--------------|------------------------------------|-------------------|-----------------------------|
| 10-0813 | RECT. TUBE 1" x 1/2" x 16SWG | | 0,31 |
| 10-0812 | RECT. TUBE 1.1/2" x 3/4" x 1/16" | | 0,46 |
| 10-0819 | RECT. TUBE 1.1/2" x 1" x 16SWG | | 0,53 |
| 10-0802 | RECT. TUBE 2" x 1" x 10SWG | | 1,22 |
| 10-0801 | RECT. TUBE 2" x 1.1/2" x 10SWG | | 1,45 |
| 10-0815 | RECT. TUBE 2.1/2" x 1.1/4" x 10SWG | | 1,56 |
| 10-0803 | RECT. TUBE 3" x 1" x 10SWG | | 1,67 |
| 10-0808 | RECT. TUBE 3" x 1.1/2" x 10SWG | | 1,89 |
| 10-0814 | RECT. TUBE 3" x 1.3/4" x 10SWG | | 2,00 |
| 10-0807 | RECT. TUBE 3" x 2" x 10SWG | | 2,11 |
| 10-0804 | RECT. TUBE 4" x 1" x 10SWG | | 2,12 |
| 10-0805 | RECT. TUBE 4" x 1.3/4" x 10SWG | | 2,45 |
| 10-0806 | RECT. TUBE 4" x 2" x 10SWG | | 2,56 |

| SWG | (in) | (mm) | SWG | (in) | (mm) | SWG | (in) | (mm) |
|-----|-------|-------|-----|-------|-------|-----|-------|-------|
| 0 | 0.324 | 8.230 | 9 | 0.144 | 3.658 | 18 | 0.048 | 1.219 |
| 1 | 0.300 | 7.620 | 10 | 0.128 | 3.251 | 19 | 0.040 | 1.016 |
| 2 | 0.276 | 7.010 | 11 | 0.116 | 2.946 | 20 | 0.036 | 0.914 |
| 3 | 0.252 | 6.401 | 12 | 0.104 | 2.642 | 21 | 0.032 | 0.813 |
| 4 | 0.232 | 5.893 | 13 | 0.092 | 2.337 | 22 | 0.028 | 0.711 |
| 5 | 0.212 | 5.385 | 14 | 0.080 | 2.032 | 23 | 0.024 | 0.610 |
| 6 | 0.192 | 4.877 | 15 | 0.072 | 1.829 | 24 | 0.022 | 0.559 |
| 7 | 0.176 | 4.470 | 16 | 0.064 | 1.626 | 25 | 0.020 | 0.508 |
| 8 | 0.160 | 4.064 | 17 | 0.056 | 1.422 | | | |

Round tubes

11



Notes:

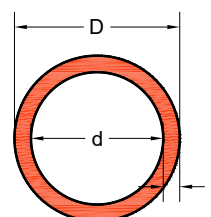
* The weight of each profile is calculated by measuring its cross-sectional area and multiplying it by the material density. The aluminium density is considered to be 2,70 gr/cm³.

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

D=Outer Diameter

d=Inner diameter

t=thickness



EXPERTS IN ALUMINIUM™

| Profile Code | Description | Additional charge | Weight Gewicht (Kg/m) |
|--------------|-----------------------------------|-------------------|-----------------------------|
| 11-0825 | ROUND TUBE Φ 3/8" OD x 16SWG | | 0,11 |
| 11-9801 | ROUND TUBE Φ 1/2" x 10SWG | | 0,26 |
| 11-0821 | ROUND TUBE Φ 3/4" OD x 10SWG | | 0,44 |
| 11-0827 | ROUND TUBE Φ 1" x 16SWG | | 0,33 |
| 11-0802 | ROUND TUBE Φ 1" x 10SWG | | 0,61 |
| 11-0809 | ROUND TUBE Φ 1.1/8" x 10SWG | | 0,70 |
| 11-0817 | ROUND TUBE Φ 1.1/4" x 10SWG | | 0,79 |
| 11-0822 | ROUND TUBE Φ 1.3/8" x 10SWG | | 0,88 |
| 11-0815 | ROUND TUBE Φ 1.1/2" x 10SWG | | 0,96 |
| 11-0810 | ROUND TUBE Φ 1.1/2" x 1/4" | | 1,71 |
| 11-0811 | ROUND TUBE Φ 1.5/8" x 10SWG | | 1,05 |
| 11-0820 | ROUND TUBE Φ 1.3/4" x 10SWG | | 1,14 |
| 11-0814 | ROUND TUBE Φ 2" x 16SWG | * | 0,68 |
| 11-0806 | ROUND TUBE Φ 2" x 10SWG | | 1,31 |
| 11-0808 | ROUND TUBE Φ 2" x 3/16" | | 1,86 |
| 11-0818 | ROUND TUBE Φ 2" x 1/4" | | 2,39 |
| 11-0807 | ROUND TUBE Φ 2.1/2" x 10SWG | | 1,66 |
| 11-0812 | ROUND TUBE Φ 2.1/2" x 1/4" | | 3,08 |
| 11-0813 | ROUND TUBE Φ 3" x 16SWG | * | 1,03 |
| 11-0803 | ROUND TUBE Φ 3" x 10SWG | | 2,01 |
| 11-0805 | ROUND TUBE Φ 3" x 1/4" | | 3,76 |
| 11-0823 | ROUND TUBE Φ 3.1/2" x 10SWG | | 2,36 |
| 11-0824 | ROUND TUBE Φ 3.1/2" x 1/4" | | 4,46 |
| 11-0819 | ROUND TUBE Φ 4" OD x 1,5mm | * | 1,27 |
| 11-0801 | ROUND TUBE Φ 4" x 16SWG | * | 1,38 |

| Profile Code | Description | Additional charge | Weight Gewicht (Kg/m) |
|--------------|---|-------------------|-----------------------------|
| 11-0804 | ROUND TUBE $\Phi 4'' \times 10\text{SWG}$ | * | 2,71 |
| 11-0828 | ROUND TUBE $\Phi 4'' \times 1/4''$ | | 5,13 |
| 11-0826 | ROUND TUBE $\Phi 6'' \times 2,5\text{mm}$ | | 3,18 |
| 11-0816 | ROUND TUBE $\Phi 6'' \times 10\text{SWG}$ | * | 4,11 |

| SWG | (in) | (mm) | SWG | (in) | (mm) | SWG | (in) | (mm) |
|-----|-------|-------|-----|-------|-------|-----|-------|-------|
| 0 | 0.324 | 8.230 | 9 | 0.144 | 3.658 | 18 | 0.048 | 1.219 |
| 1 | 0.300 | 7.620 | 10 | 0.128 | 3.251 | 19 | 0.040 | 1.016 |
| 2 | 0.276 | 7.010 | 11 | 0.116 | 2.946 | 20 | 0.036 | 0.914 |
| 3 | 0.252 | 6.401 | 12 | 0.104 | 2.642 | 21 | 0.032 | 0.813 |
| 4 | 0.232 | 5.893 | 13 | 0.092 | 2.337 | 22 | 0.028 | 0.711 |
| 5 | 0.212 | 5.385 | 14 | 0.080 | 2.032 | 23 | 0.024 | 0.610 |
| 6 | 0.192 | 4.877 | 15 | 0.072 | 1.829 | 24 | 0.022 | 0.559 |
| 7 | 0.176 | 4.470 | 16 | 0.064 | 1.626 | 25 | 0.020 | 0.508 |
| 8 | 0.160 | 4.064 | 17 | 0.056 | 1.422 | | | |

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