

Metal enclosures



| Material | Stainless steel | | | Sheet steel | | Aluminium |
|--------------------------------|--|---|--|--|--|--|
| Surface | Electropolished/brushed | | | Polyester powder paint (baked) | | Untreated or painted |
| Environment | Indoors Outdoors Chemical industry, Food industry tropics | | | Indoors protected | | Indoors Outdoors Shipbuilding (with chromating) |
| Advantages | Maintenance-free Robust | | | Maintenance-free Robust | | Maintenance-free Low weight Torsionally rigid Easy to mount |
| Chemical resistance | very good | | | good | | good |
| Sea water resistance | very good | | | insufficient | | good |
| UV-resistance | very good | | | very good | | very good |
| Halogen-free | yes | | | yes | | yes |
| Cadmium-free | yes | | | yes | | yes |
| Characteristics | Klippon® TB | Klippon® JB | STB | Klippon® TB | STB | Klippon® K |
| Lowest temperature | -50 °C | -50 °C | -20 °C (-50 °C)* | -50 °C | -20 °C (-50 °C)* | -40 °C (-50 °C)* |
| Highest continuous temperature | +135 °C | +135 °C | +85 °C (+135 °C)* | +135 °C | +80 °C (+135 °C)* | +85 °C (+135 °C)* |
| Impact resistance | 10 J | 10 J | 7 J | 10 J | 7 J | 10 J |
| IP Protection class | 66 + 67 | 66 + 67 + 68 | 66 | 66 + 67 | 66 | 66 + 67 + 68 |
| ATEX approval | yes | yes | yes | yes | yes | yes |
| GL | yes | yes | yes | yes | yes | yes |
| Dimensions | | | | | | |
| L x W x H (min.) mm | 229 x 152 x 130 | 210 x 210 x 160 | 120 x 120 x 80 | 229 x 152 x 130 | 120 x 120 x 80 | 45 x 50 x 30 |
| L x W x H (max.) mm | 914 x 610 x 200 | 630 x 600 x 250 | 250 x 400 x 130 | 914 x 610 x 200 | 250 x 400 x 130 | 280 x 230 x 111 |
| Equipment | | | | | | |
| | Cover hinges removable cover Gland plates Fixing lugs Padlock for facility | Removable fixing lugs Cover hinges removable cover 1 Gland plate | C rail in the enclosure Fixing lugs | Cover hinges removable cover Gland plates Fixing lugs Padlock for facility | C rail in the enclosure Fixing lugs | Earthing screw inside |

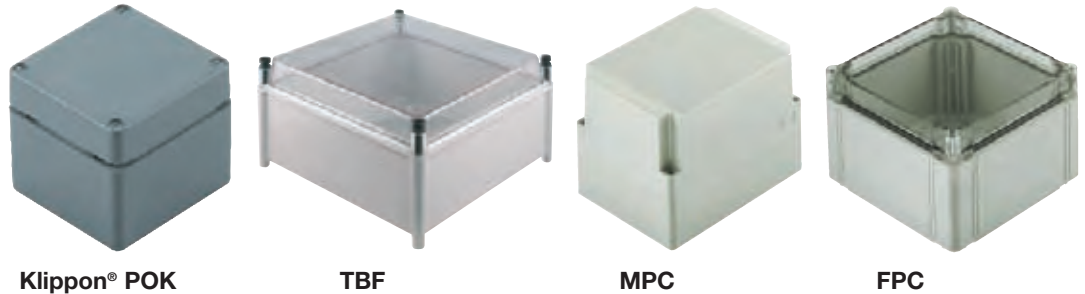
Accessories

| | | | |
|----------------|----------------|----------------|----------------|
| Mounting plate | Mounting rail | Mounting plate | Mounting rail |
| Padlock | Earthing rail | Padlock | Earthing rail |
| | Mounting plate | | Mounting plate |
| | Spacer | | Spacer |
| | | | Hinge |
| | | | Fixing lugs |

* Silicone

Please specify ambient temperature of application when ordering and also note gasket material (e.g. -50 °C / silicone gasket)

Plastic enclosures



| Material | Polyester GRP | | Polycarbonate | |
|--------------------------------|--|---------------------------|--|---------------------------|
| Environment | Indoors Outdoors | | Indoors Outdoors | |
| Advantages | Maintenance-free Good electrical insulation Low weight | | Maintenance-free Good electrical insulation Low weight resistant to diluted acids and chemicals | |
| Chemical resistance | good | | good | |
| Sea water resistance | very good | | very good | |
| UV-resistance | good | | good | |
| Halogen-free | yes | | yes | |
| Cadmium-free | yes | | yes | |
| Characteristics | Klippon® POK | TBF | MPC | FPC |
| Lowest temperature | -40 °C (-55 °C)* | -50 °C | -50 °C | -50 °C |
| Highest continuous temperature | +90 °C (+100 °C)* | +130 °C | +130 °C | +130 °C |
| Flammability | V0 | HB/V2 | V2 | V2 |
| Surface resistance | 10 ¹² | 10 ¹² | 10 ¹⁶ | 10 ¹⁶ |
| Impact resistance | 7 J | 4/7 J | 7 J | 7 J |
| IP Protection class | 66 | 66/67 | 66 + 67 | 66 + 67 |
| ATEX approval | yes | - | - | - |
| Dimensions | | | | |
| L x B x H (min.) mm | 75 x 80 x 55 | 186 x 151 x 139 | 75 x 125 x 75 | 200 x 200 x 130 |
| L x B x H (max.) mm | 250 x 400 x 160 | 603 x 603 x 210 | 175 x 250 x 100 | 400 x 600 x 130 |
| Equipment | | | | |
| | Earthing screw inside | Grey or transparent cover | Grey or transparent cover | Grey or transparent cover |

Accessories

| | | | | |
|--|--|----------------|----------------|----------------|
| | Mounting rail | Mounting plate | Mounting plate | Mounting plate |
| | Earthing rail | | Fixing lugs | Fixing lugs |
| | Earth continuity plate (ECP), cruciform | | Hinge | |
| | Mounting plate | | | |
| | Spacer | | | |
| | Hinge | | | |
| | Fixing lugs | | | |

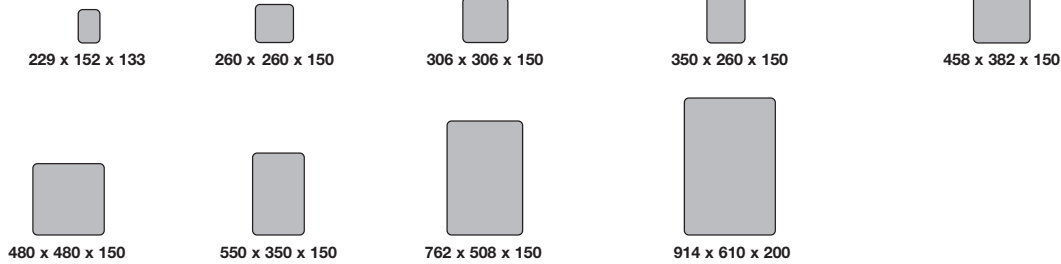
*  Silicone

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Overview of dimensions

Klippon® TB

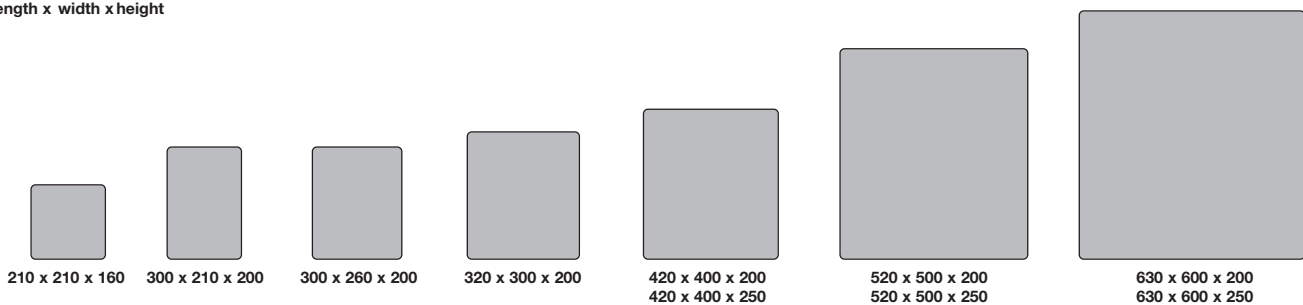
Length x width x height



Please note:
Other sizes available
on request

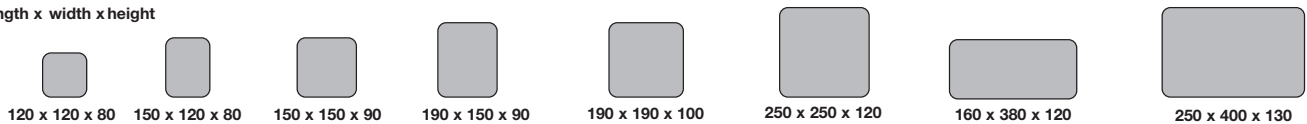
Klippon® JB

Length x width x height



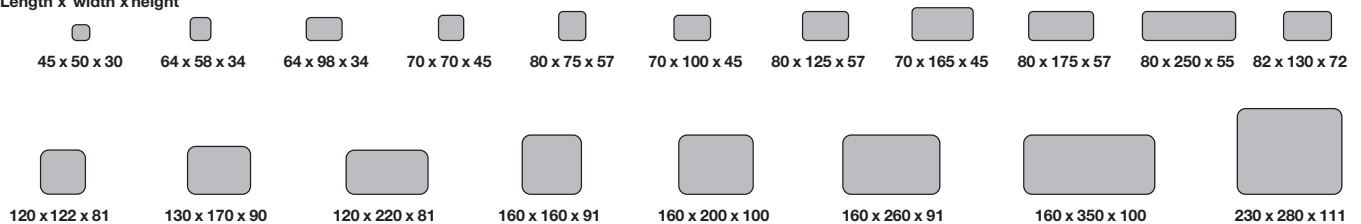
STB

Length x width x height



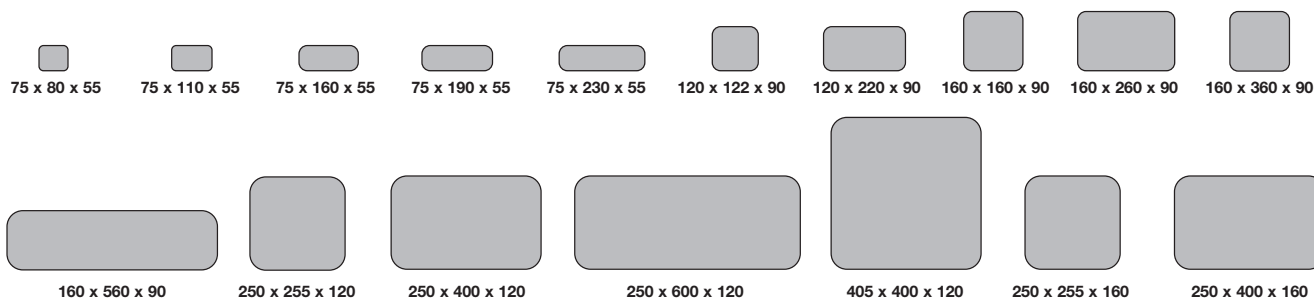
Klippon® K

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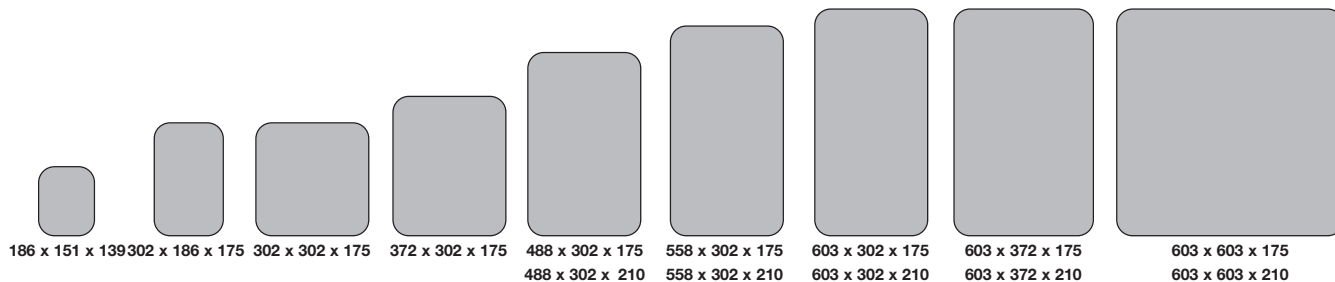
Klippon® POK

Length x width x height



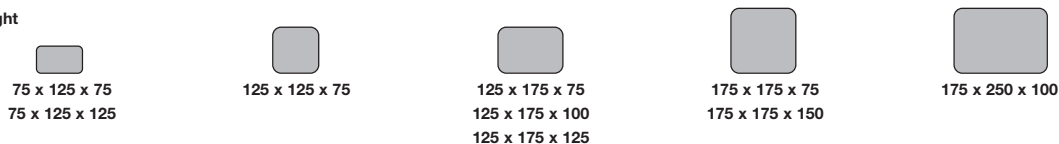
TBF

Length x width x height



MPC

Length x width x height



FPC

Length x width x height

