

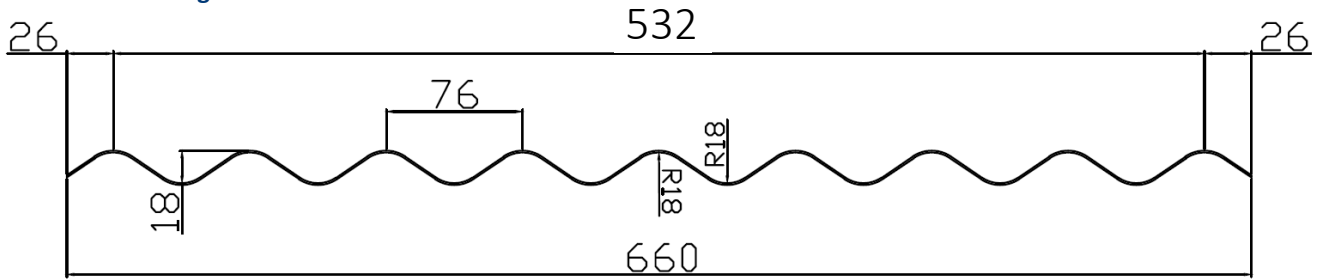
# Cool-Top Technical Guide



## Profile: PVC Iron 76 - 660

08/11/2022

Profile Drawing



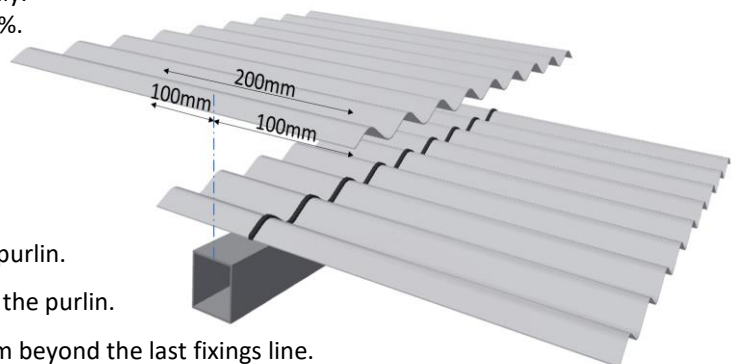
Profile Dimensions

Profile (mm)	Thickness (mm)	Length (m)	Overall width (mm)	Cover Width (mm)	Side-Lap (%)
76 / 18	1.0	1.8 – 7.2	660	532	19

Load / Span Data

Load (kg/m <sup>2</sup> )	1mm thickness-Maximum Roof Span (mm)	
	Mid Span	End Span
50	1000	750
75	900	675
100	800	600
125	750	560
150	700	525

- The specified dimensions do not supersede the requirements of local construction codes.
- The given spans are according to deflections criterion of L/20, and minimum slope of 10%.
- The maximum roof spans are based on calculation model and practical testing.
- The mentioned load refers to wind and snow load only.
- For vertical application spans can be increased by 10%.



Panel Length

- Maximum recommended panel length - 7.0 m.
- Recommended longitude overlaps of 200mm above purlin.
- Each panel to extend 100mm over the fixings line on the purlin.
- Panels should overhang Min. 50mm and Max. 150mm beyond the last fixings line.

Curved Roof

- Minimum curving radius 4.0 m.



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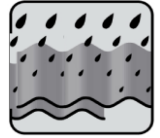
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### Positioning

- Do not install COOL-TOP over existing roof, without proper ventilation of the air gap between.
- Apply **two** corrugation side laps.
- Side-lap of COOL-TOP panels should be installed against the primary direction of rain.
- The COOL-TOP panels should be located and installed without any stresses.

Do not pull, stretch, or force the sheets when the profiles are not perfectly matched.

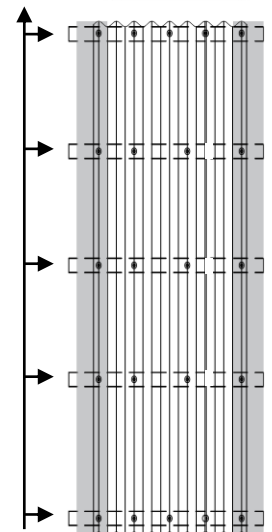
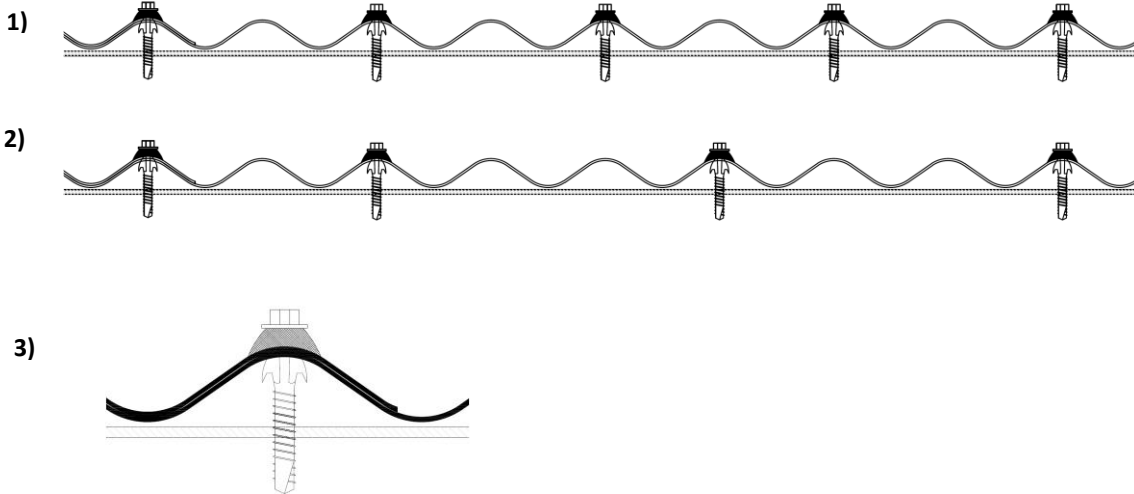


### Fastening

- **In case of not** using Clear fix or One-shot screws, Pre-drill 10mm holes at crests where screws are positioned.
- Start fastening the screws from the first side-lap (left) through the pre-drilled holes.
- Start fastening the screws on the lower edge purlin (End-lap), through every other corrugation crest (1).
- Fasten screws at the internal purlins, as shown in the drawing, starting at the same side (2).
- Fasten screws at the upper edge purlin, through every other corrugation crest, starting at the same side (1)
- **Do not over-tighten!**



### Fastening Location



### Screws and Washers Specification

OneShot® & Clearfix screws 50mm Class 4 coating, Self-Drilling Screws can save up to 50% installation time.

Clearfix Screw  
50mm



OneShot Screws  
50mm



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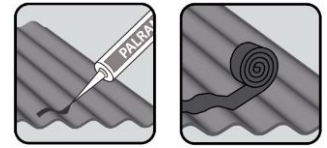


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### Important Notes

- Use only PALRAM approved accessories, including EPDM rubber washers, silicones, sealing tape, closure fixtures etc.
- When installing clear COOL-TOP onto wooden purlins, apply white acrylic paint, or aluminum tape on the purlins, to prevent over-heating of the purlins.



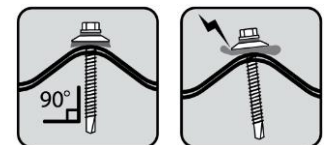
### Cutting Tips

- Use jigsaw or circular saw with fine tooth blades.
- Apply high blade speed with moderate feeding rate.
- Support the sheets near the cutting line.
- Clean the dust and cutting chips after cutting.



### Fastening Tips

- Use adjustable electric screwdriver.
- The screw must be installed perpendicular to the COOL-TOP sheet.
- **Important: Do not over-tighten.**



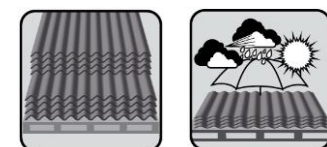
### Safety

- Do not step directly on the panel.
- Use stepping boards.
- Work according to local safety regulations codes.



### Handling and Storage

- Store in a dry shaded place, protect from direct sunlight and rain.
- Cover COOL-TOP stack with white opaque covering.
- Avoid covering the sheets with heat absorbing materials.
- Avoid contact or environment of chemicals.
- Protect the sheets from any physical damage.
- After installation keep sheets free of dust and soot.
- Sheets should be cleaned frequently with a water hose.



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