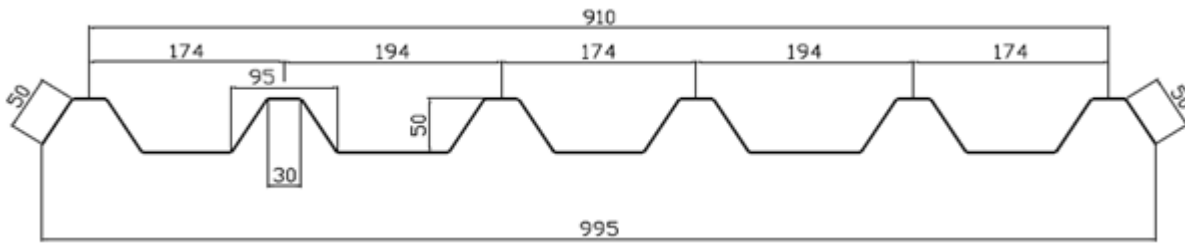


### Profile Drawing



### Profile Dimensions

Profile (mm)	Thickness (mm)	Length (m)	Overall width (mm)	Cover Width (mm)	Side-Lap (%)
174/194/50	3	1.5 - 11.6	995	910	8.5

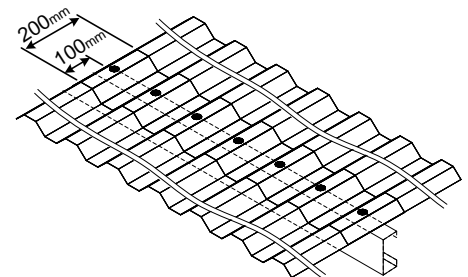
### Load / Span Data

Load (kg/m <sup>2</sup> )	Maximum Roof Span (mm)		<b>IMPORTANT NOTE:</b> maximum period allowed to the panel to be loaded with load higher than 400 is <b>8 weeks</b>
	3.0 mm		
	End Span	Mid Span	
100	1950	2300	
200	1425	1900	
400	1075	1450	
600	900	1200	
800	825	1100	
1000	750	1000	

- The specified dimensions do not supersede the requirements of local construction codes.
- The maximum purlin spans are based on continuous beam calculation model and practical testing.
- The criterion for allowed deflections is L/20.
- The mentioned load refers to both wind and snow loads.
- Minimum recommended slope – 5%.
- For vertical application spans can be increased by 10%.

### Panel Length

- Maximum recommended panel length - 7.0 m.
- Recommended longitude overlap 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 20.0 m.



### Positioning

- Make sure the UV protected side faces out.
- Side-lap of DURASHIELD panels must be installed against the primary direction of rain.
- The DURASHIELD panels must be located and installed without any stresses.

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



### Fastening

- Apply sealing tape over the DURASHIELD panel side-lap corrugation crests, where covered by the next panel.
- Apply sealing tape along the bottom and top End-lap (if there is), along screws centerline or two tapes on both sides of screw centerline.



**Roof Fixing:** 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 (2).
- Start fastening the screws on the lower edge purlin (End-lap), on each corrugation crest (1)
- Fasten screws at all purlins, as shown below, starting at the same side (1, 2).
- Do not over-tighten!
- Fasten the stitching screws at every 300-400 mm (3).

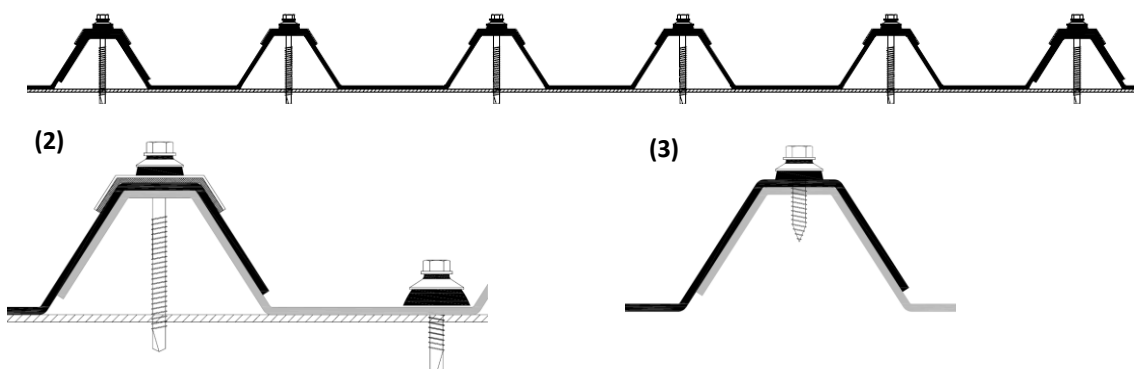


**Wall Fixing:** Pre-drill 10mm holes at crests where screws are positioned.

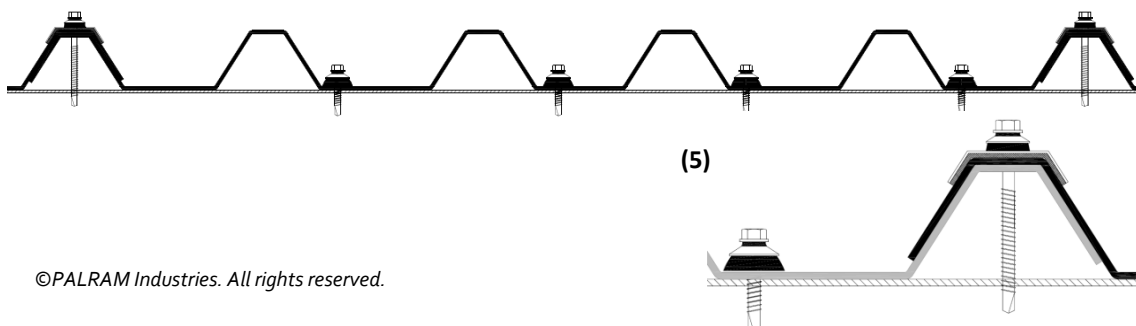
- Start fastening the screws on the lower edge purlin, on each side lap corrugation and at each valley as indicated in drawing (4)

### Fastening Location

#### (1 Roof installation- High Wind loads)



#### (4 Wall installation- High Wind loads)



### Screws and Washers Specification

- **Crest fixing:** Self-drilling ¼" x 3.5" (6.4mm X 90mm) screw with 19 mm diameter- galvanized / aluminum / stainless metal washer attached to EPDM rubber +matched metal crest rider (Storm washers) with EPDM gasket. Or 25 mm diameter- galvanized / aluminum / stainless metal washer attached to EPDM rubber gasket of 55 to 65 shore hardness.
- **Valley fixing:** Self-drilling ¼" x 2" (6.4mm X 50mm) screw with 25 mm diameter- galvanized / aluminum / stainless metal washer attached to EPDM rubber gasket of 55 to 65 shore hardness.
- **Side lap Stitching:** ¼" x 1" (6.4 X 25.4mm) self-tapping screw with 19mm diameter- galvanized / aluminum / stainless metal washer attached to EPDM rubber gasket of 55 to 65 shore hardness.

### Important Notes

- Use only PALRAM approved accessories, including EPDM rubber washers, silicones, sealing tape, closure fixtures etc.
- For clear DURASHIELD onto wooden purlins, apply white acrylic paint, or aluminum tape, in order 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 DURASHIELD sheet.
- **Important: Do not over-tighten.**



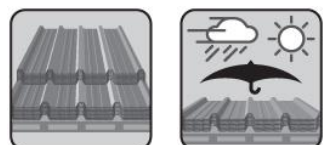
### Safety

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



### Handling and Storage

- Store in a dry shaded place, protect from direct sunlight and rain.
- Cover DURASHIELD 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.



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