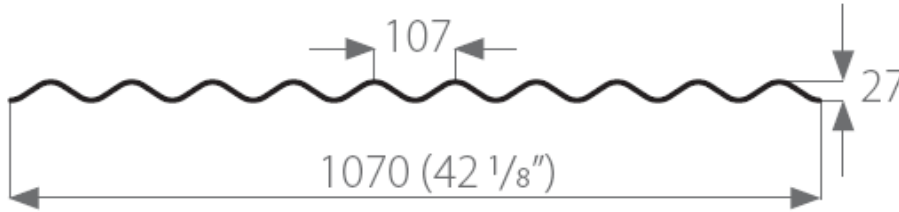


# PALRUF® Technical Guide

## Profile: 107/27 (American 4.2")



### Profile Drawing



### Profile Dimensions

Profile (mm)	Thickness (mm)	Length (m)	Overall width (mm)	Cover Width (mm)	Side-Lap (%)
107 / 27	0.8-1.5	1.5 - 11.8	1070	963	10

### Load / Span Data

Load (kg/m <sup>2</sup> )	Maximum Roof Span (mm)					
	2.0 mm		2.5 mm		3.0 mm	
	Mid Field	End Field	Mid Field	End Field	Mid Field	End Field
75	1400	1050	1500	1125	1600	1200
100	1300	975	1400	1050	1500	1125
125	1200	900	1300	975	1400	1050
150	1100	825	1200	900	1300	975

- The dimensions specified 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.
- For single span application use the end field column.
- The mentioned load refers to both wind and snow loads.
- Minimum recommended slope – 10%.
- Maximum recommended panel length - 7.0 m.

### Curved Roof

- Minimum curving radius 6.0 m.



# PALRUF® Technical Guide

## Profile: 107/27 (American 4.2")



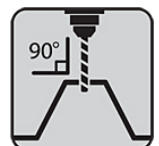
### Positioning

- Side-lap of PALRUF panels must be installed against the primary direction of rain.
- The PALRUF panels must be located and installed without any stresses.  
Do not pull, stretch or force the sheets when the profiles are not perfectly matched.

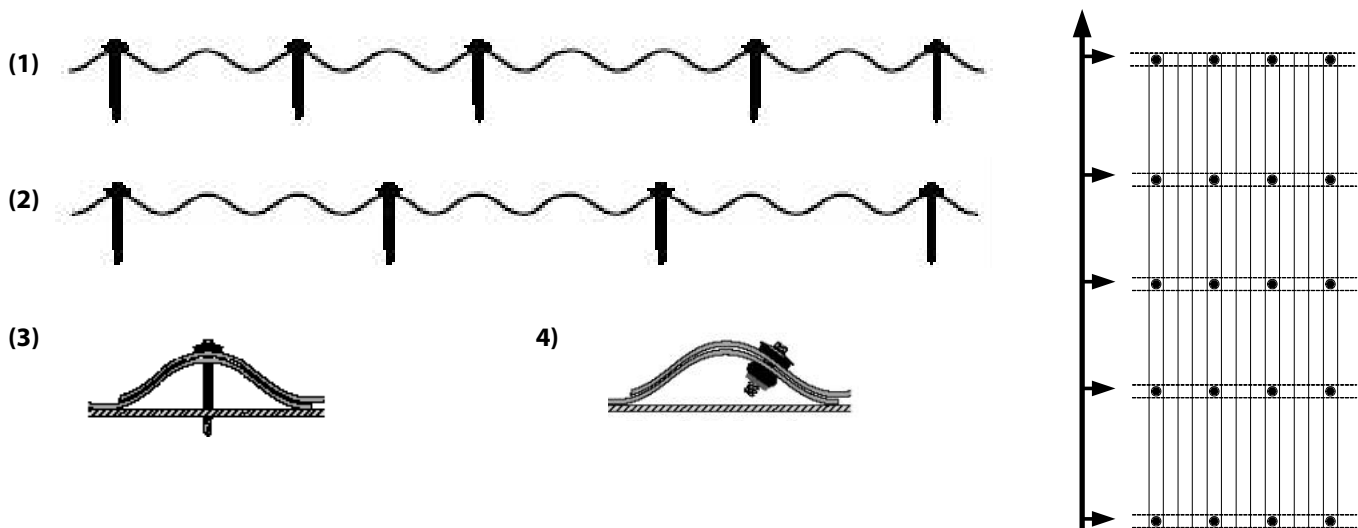


### Fastening

- Apply sealing tape over the PALRUF 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.
- 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 (3).
- Start fastening the screws on the lower edge purlin (End-lap), through every other corrugation crest (1).
- Fasten screws at the internal purlins, through every third corrugation crest, 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!**
- Fasten the stitching screws at every 300 mm (4).



### Fastening Location



### Screws and Washers Specification

- Crest fixing: Self-drilling 5.5mm (1/4") x 65mm (2 1/2") screw + matched metal crest rider (Storm washers) with EPDM gasket.
- Side Stitching: 5.5mm x 19mm (3/4") self-tapping screw with 19 mm washer/gasket.



# PALRUF® Technical Guide

## Profile: 107/27 (American 4.2")



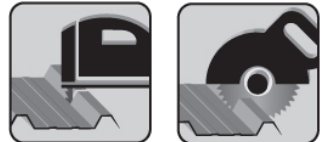
### Important Notes

- Use only PALRAM approved accessories, including EPDM rubber washers, silicones, sealing tape, closure fixtures etc.
- Avoid contact with non-compatible chemicals and materials.



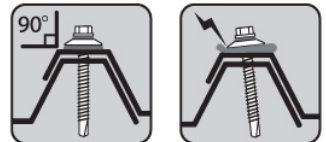
### Cutting / Sawing Tips

- Table or Portable circular saw with small teeth.
- Jigsaw.
- When Sawing use high blade speed and slow feed rate.
- Support the sheet in the vicinity of the cut and clean dust and splinters away.



### Fastening Tips

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



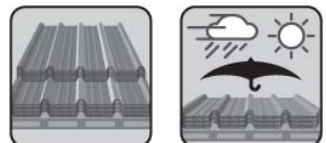
### Safety

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



### Handling and Storage

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