

MOUNTING SYSTEMS—RESIDENTIAL / COMMERCIAL / INDUSTRIAL



		Design principle	Rail type	Span [m]*	Rail length [m]	Fixing	Connection to	Module clamps	Attractive price				
Tiled roof 		Single layer or cross frame	SingleRail 36	1.4	2.10 3.15 4.15 6.10	SingleHook CrossHook	two adjustments on rafters two or three adjustments on rafters	SolidRail medium: XS end and middle clamp available in all frame thicknesses. All other rails: universal clamp OneMid/OneEnd	*****				
			SolidRail light	1.6		All, except CrossHook and SingleHook	rigid; with one or two adjustments on rafters		*****				
			SolidRail medium	1.9		All, except CrossHook and SingleHook	rigid; with one or two adjustments on rafters		*****				
			CrossRail 36	1.6		CrossHook	several adjustments on rafters		*****				
			CrossRail 48	1.8		CrossHook	several adjustments on rafters		*****				
Trapezoidal sheet 		Parallel to roof full-length rails	SpeedRail 22	not needed	2.10 3.15 4.15 6.10	To sheet using SpeedClip	Planking	SolidRail medium: XS end and middle clamp available in all frame thicknesses. All other rails: universal clamp OneMid/OneEnd	*****				
										Parallel to roof short rails	MultiRail	0.10	Directly to sheet using a thread-forming drilling screw
	MiniRail	0.25 0.40	Directly to sheet using a thread-forming drilling screw	Planking	*****								
	MiniFive and MiniFive	0.4			Included with rail, fits all frame thicknesses	*****							
		Parallel to roof full-length rails	SingleRail 36	1.4	2.10 3.15 4.15 6.10	Hanger bolt M8 to M12 64mm to 400mm	Roof substructure	SolidRail medium: XS end and middle clamp available in all frame thicknesses. All other rails: universal clamp OneMid/OneEnd	*****				
			SolidRail light 37	1.6					*****				
			SolidRail medium 42	1.9					*****				
			CrossRail 36	1.6					*****				
			CrossRail 48	1.8					*****				
		Elevated by 10° on rail parts using "S-Dome Small" system	MultiRail 25	not needed	0.25	Directly to sheet using a thread-forming drilling screw	Planking	FlexClamp small for all frame thicknesses	*****				
Metal seam roof 		Full-length rails directly connected to planking using seam clamp	SolidRail light	1.6	2.10 3.15 4.15 6.10	Seam clamp	Seam	SolidRail medium	1.9	*****			
Trapezoidal sheet sandwich 		Full-length rails directly connected to roof construction using hanger bolt	SingleRail 36	1.4				2.10 3.15 4.15 6.10	Hanger bolt M8 to M12 64mm to 400mm	Metal and timber roof substructure	SolidRail medium: XS end and middle clamp available in all frame thicknesses. All other rails: universal clamp OneMid/OneEnd	*****	
			SolidRail light	1.6	*****								
			SolidRail medium	1.9	*****								
			CrossRail 36	1.6	*****								
			CrossRail 48	1.8	6.10	*****							
Corrugated cement asbestos 		Full-length rails directly connected to roof construction using hanger bolt	SingleRail 36	1.4	2.10 3.15 4.15 6.10	Hanger bolt M8 to M12 64mm to 400mm	Metal and timber roof substructure	SolidRail medium: XS end and middle clamp available in all frame thicknesses. All other rails: universal clamp OneMid/OneEnd	*****				
			SolidRail light	1.6					*****				
			SolidRail medium	1.9					*****				
			CrossRail 36	1.6					*****				
			CrossRail 48	1.8					6.10	*****			
In-roof 		In-roof substructure for framed standard modules up to 1.001 mm widths	Plastic roofing frame	not needed	not needed	Wood screws	roofing battens	Included in all frame thicknesses	*****				
Flat roof 		Low-ballast, aerodynamic flat roof system w/o roof penetration for bitumen or foil roofing	S-Dome 2.0	South	no	10°	1300 to 2100	950 to 1100	*****				
			D-Dome 2.0	East-west	no				*****				
			S-Dome	South	yes				*****				
			D-Dome	East-west	yes				*****				
			S-Rock	South	no				15°	1300 to 2100	962 to 1020	*****	
			Elevated flat roof system for trapezoidal sheet roofing up to 5° roof pitch	S-Dome Trapez	South - 90° in trapezoid running direction				yes	10°	1550 to 1700	950 to 1100	*****
				D-Dome Trapez	East-west (or other directions) 90° in trapezoid running direction				yes	no specification	740 to 840 950 to 1100	*****	
					Design principle				System	Elevation direction	Full-length rails	Inclination	Module length [mm]

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-including proof of structural soundness -
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*In the following conditions 400m ground elevation, wind and snow load zone 2, 10m building height, 30° roof pitch, solar module with 20kg, centre of roof. Subject to change without notice, the design with the manufacturer's software is decisive. We also supply in-roof systems, carports and insertion systems. Contact your sales manager. We will be happy to advise you!