

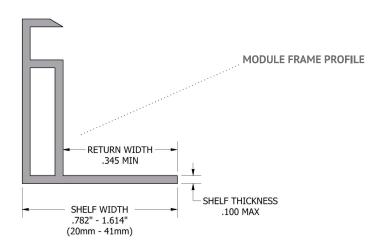
RM TECHNICAL DATASHEET PUB131213 V1

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Module Applicability:

Module size: Nominal width 39", Length= 77"+/- 20%

Module Frame: The module frame must have an under hanging shelf on its lower extremity. The shelf can have a maximum thickness of .100" The shelf width must be between .787" and 1.614" (20mm-41mm).



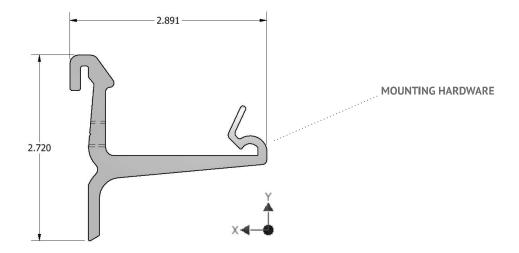
Module mounting instruction must allow for mounting between the 1/8th and 1/4th points of the module side.

Roof Pitch: less than 1:10

Bright Thinking In Solar

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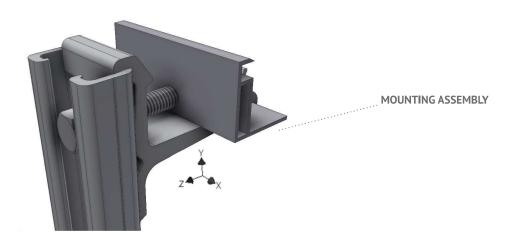


Mounting hardware:

- Clamp Material: One of the following extruded aluminum, with mill finish, 6105-T5 or 6005A-T61 per ADM 2010 Ultimate Tensile Strength 38ksi, Yeild Strength 35ksi
- Bolt material: 3/8-16 x 1 ¾ UNC-2A, 300 series SS, ASME B18.2.1
- Weight: Clamp and bolt, .25 lbs
- Allowable design loads are valid when components are assembled and used according to authorized Unirac RM documents
- Resistance factors and safety factors are determined according to part 1 appendix 1 of the 2010 Aluminum Design Manual

		Clip			
Load Direction		Y +	Υ-	X -	
Ultimate Load	lbs	663	1162	1552	
	N	2949	5168	6901	
Allowable Load	lbs	289	498	636	
	N	1287	2214	2829	
Safety Factor		2.29	2.33	2.44	
Design Load	lbs	438	753	962	
	N	1947	3349	4279	
Resistance Factor		0.66	0.65	0.62	





Ballast Tray:

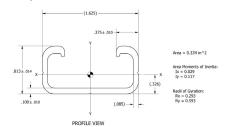
- Ski Material: either 6063-T5 or 6105-T52
- Dowel material: 6063-T5
- Weight: 2.74lbs
- Resistance factors and safety factors are determined according to part 1 appendix 1 of the 2010 Aluminum Design Manual

		Clip					
Load Direction		Y +	Υ-	Z+	Z -	Х	
Ultimate Load	lbs	367	1054	132	424	611	
	N	1631	4688	588	1886	2716	
Allowable Load	lbs	155	415	58	188	252	
	N	692	1844	257	838	1122	
Safety Factor		2.36	2.54	2.29	2.25	2.42	
Design Load	lbs	235	627	87	285	382	
	N	1046	2790	389	1267	1697	
Resistance Factor		0.66	0.6	0.66	0.67	0.62	

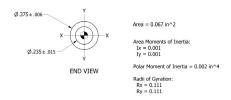
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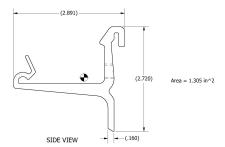
RM Ballast tray/ ski:



RM Ballast tray/ dowel:



RM Ballast tray/ clip:



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