



Overview

TR Hank® Thin Sheet Standoff Non Heatreated - Metric

Materials and Finishes:

- TR-TSO: Steel/Zinc Trivalent Clear
- TR-TSOS: Stainless Steel/Self Finish

Please note: other finishes available on request.

Body type will change with length, see body type to length chart in Dimension data drop down.

Note: Due to the fact that fastening applications differ greatly, the below information is for guidance only and is correct to the best of our knowledge. The customer must satisfy themselves with the performance of the fastener and validity of the data. TR Fastenings will not be held responsible for any failure that may occur from the use of this information.

Dimension data

Dimensional Data					
Thread	M2.5	M2.5 Alt	M3	M3 Alt	M4
Min. Sheet Thickness	0.63	0.63	0.63	0.63	0.63
Hole Size +0.08 -0.00	4.22	5.41	4.22	5.41	5.41
C +0.00 -0.13	4.2	5.39	4.2	5.39	5.39
B Min. Thread Length	5.2	5.2	6.2	6.2	7
A Nom A/F	4.8	6.4	4.8	6.4	6.4
Min. Dist. (Hole to Edge)	5.8	7.1	5.8	7.1	7.1

Body Type to Length												
Length	2mm	3mm	4mm	5mm	6mm	8mm	10mm	12mm	14mm	16mm	18mm	20mm
M2.5	TR-1	TR-1	TR-1	TR-1	TR-1	TR-2	TR-3	TR-3	TR-3	TR-3	TR-3	TR-3
M2.5 Alt	TR-1	TR-1	TR-1	TR-1	TR-1	TR-2	TR-3	TR-3	TR-3	TR-3	TR-3	TR-3
M3	TR-1	TR-1	TR-1	TR-1	TR-1	TR-2	TR-2	TR-3	TR-3	TR-3	TR-3	TR-3
M3 Alt	TR-1	TR-1	TR-1	TR-1	TR-1	TR-2	TR-2	TR-3	TR-3	TR-3	TR-3	TR-3
M4	TR-1	TR-1	TR-1	TR-1	TR-1	TR-1	TR-2	TR-2	TR-3	TR-3	TR-3	TR-3

For reference see overview drawing.

Further information

Performance Data					
Standoff Body "C" Dim.	Standoff material	Test Plate	Installation Force (kN)	Pushout (N)	Torque out (Nm)
4.2	Steel	0.64mm Cold rolled steel	9	450	1
4.2	Stainless Steel	0.64mm Cold rolled steel	9	450	1
4.2	Steel	0.64mm 5052-H34 Alu	6.8	315	0.69
4.2	Stainless Steel	0.64mm 5052-H34 Alu	6.8	315	0.69
5.39	Steel	0.64mm Cold rolled steel	11.1	675	1.75
5.39	Stainless Steel	0.64mm Cold rolled steel	11.1	675	1.75
5.39	Steel	0.64mm 5052-H34 Alu	8.1	405	1.25
5.39	Stainless Steel	0.64mm 5052-H34 Alu	8.1	405	1.25

