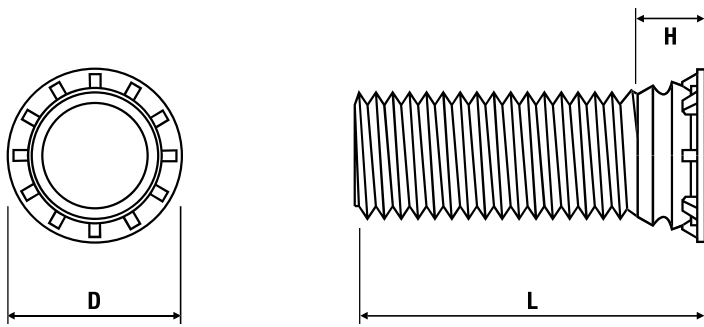


Low Displacement Stud TR-FHL/TR-FHLS



Metric Dimensions

Zinc Plated Steel: TR-FHL | Stainless Steel: TR-FHLS

Thread	M2.5	M3	M4	M5
D ± 0.4	3.15	3.65	4.65	5.9
H max.	2.1	2.1	2.4	2.7
Min. sheet thickness	1.0			
Recommended hole size +0.08	2.5	3.0	4.0	5.0
Min. distance to edge of sheet	2.8	3.3	4.3	5.6

Length (L) ± 0.4	6	8	10	12	15	18	20	25	30

Metric Performance Data

Thread	M2.5	M3	M4	M5
Test sheet material	Steel			
Test sheet thickness	1.1	1.1	1.1	1.1
Installation (kN)	5.4	5.4	6.7	20.1
Push-out (N)	450	475	555	1010
Torque-out (Nm)	1.2	1.3	2.2	4.5
Pull through (N)	2290	2550	3350	3760

TR-FHL - Recommended for use in sheet hardness: HRB 80 or less

TR-FHLS - Recommended for use in sheet hardness: HRB 70 or less

