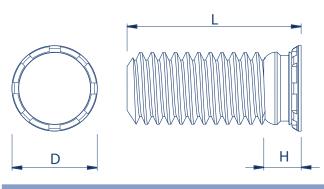
## TR Hank® Self-Clinch Low Displacement Flush Head Studs



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







Metric Dimensions								
Thread size	M2.5	M3	M4	<b>M</b> 5				
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	1	1	1				
Hole +0.08	2.5	3	4	5				
Min distance to edge of sheet	2.8	3.3	4.3	5.6				

Preferred Range								
Thread size		M2.5	M3	M4	<b>M</b> 5			
Length ±0.4	6	•	•	•				
	8	•	•	•				
	10	•	•	•	•			
	12	•	•	•	•			
	15	•	•	•	•			
	18	•	•	•				
	20		•	•	•			
	25		•					
	30			•				
	35							

These tests have been conducted in laboratory conditions, these figures should therefore be used for guidance only.

All data is correct to the best of our knowledge, however TR cannot be held responsible for any errors or omissions.



## TR Hank® Self-Clinch Low Displacement Flush Head Studs Fastenings



Metric Performance Data: TR-FHL - TR-FHLS							
Thread		M2.5	M3	M4	M5		
Test sheet thickness	Aluminium - HRB 33	1.2	1.2	1.2	1.2		
	Steel - HRB 55	1.1	1.1	1.1	1.1		
Installation (kN)	Aluminium	3.2	4.5	5.4	11.1		
	Steel	5.4	5.4	6.7	20.1		
Pushout (N)	Aluminium	286	286	370	535		
	Steel	451	476	555	1010		
Torque-out (Nm)	Aluminium	0.56	0.66	1.2	2.2		
	Steel	1.2	1.3	2.2	4.5		
Pull through (N)	Aluminium	1250	1300	1560	1900		
	Steel	2290	2550	3350	3760		

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