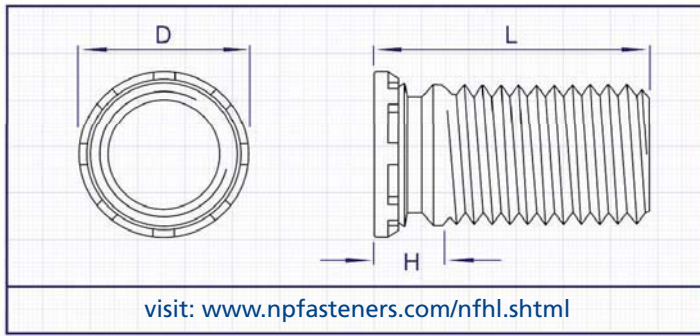


REDUCED HEAD SELF CLINCHING STUDS



TYPE NFHL



SPECIFICATION

*TO SPECIAL ORDER - MIN MANUFACTURING QUANTITY APPLIES.

Thread & Pitch	D ±0.4	H Max.	Min. Rec. Sheet Thickness	Hole Size +0.08 -0.0	Max Mating Hole	Min C/L to edge of panel
M2.5 x 0.45	3.15	2.1	1.0	2.5	2.9	2.8
M3 x 0.5	3.65	2.1	1.0	3.0	3.4	3.3
M3.5 x 0.6	4.15	2.3	1.0	3.5	3.9	3.8
M4 x 0.7	4.65	2.4	1.0	4.0	4.4	4.3
M5 x 0.8	5.90	2.7	1.0	5.0	5.4	5.6

STANDARD LENGTHS

Thread Size	'L' Length ±0.4									
	6	8	10	12	15	18	-	-	-	-
M2.5	6	8	10	12	15	18	-	-	-	-
M3	6	8	10	12	15	18	20	25	30	-
M3.5	6	8	10	12	15	18	20	25	-	-
M4	6	8	10	12	15	18	20	25	30	-
M5	-	8	10	12	15	18	20	25	30	35

INFORMATION

FINISHES

Bright Zinc Trivalent Clear Passivate (ZI), (Other Platings Available To Special Order).

MATERIALS

Carbon steel, 300 Series Stainless Steel (A2), (Aluminium (AL) To Special Order).

PART NUMBER EXAMPLES

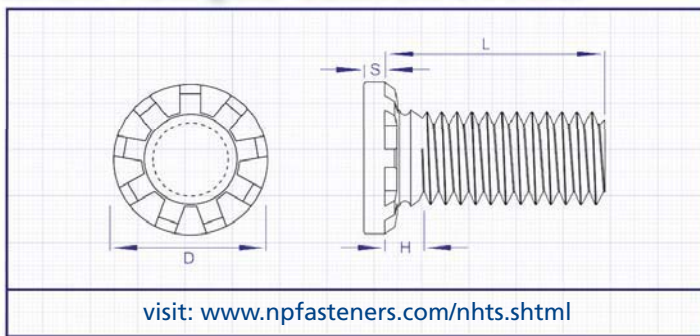
Type / Thread / Length / Finish = NFHL - M3 - 12 - ZI (Reduced Head Clinch Stud M3 x 12mm Long Steel Zinc)

Type / Thread / Length / Finish = NFHL - M5 - 15 - A2 (Reduced Head Clinch Stud M5 x 15mm Long Stainless Steel)

NOTES

The following installation panel material hardness limitations apply when installing Reduced Head Self Clinching Studs. Steel Clinch Studs: 80HRB Max, Stainless Steel Clinch Studs: 70HRB Max, Aluminium Clinch Studs: 50HRB Max.

HIGH TORQUE CLINCH STUDS



TYPE NHTS

Also available with thread lead in Type NHTSD*



SPECIFICATION

*TO SPECIAL ORDER. MIN MANUFACTURING QUANTITY APPLIES.

Thread Size & Pitch	H Max	Min Sheet Thickness	Hole Size in Panel +0.13-0.0	Max Mating Hole	S Max	D ±0.25	Min C/L to Edge of Panel	Torque Out 'Nm'	Push Out 'N'	Lengths Length (L) +/-0.4							
										15	20	25	30	35	40	45	50
M5 x 0.8*	2.7	1.3	5.0	6.5	1.14	7.8	10.7	7.8	1496	15	20	25	30	35	40	45	50
M6 x 1.0*	2.8	1.5	6.0	7.5	1.27	9.4	11.5	14.3	1803	15	20	25	30	35	40	45	50
M8 x 1.25	3.5	2.0	8.0	9.5	1.78	12.5	12.7	31.2	2294	15	20	25	30	35	40	45	50
M10 x 1.5	4.1	2.3	10.0	11.5	1.29	15.7	13.7	49.8	3456	15	20	25	30	35	40	45	50

Torque Out & Push Out figures are to be used as a guide only and will vary depending on panel thickness and installation method. Figures are based on installation into 1.5mm cold rolled steel for M5 & M6 & 2.3mm cold rolled steel for M8 & M10 under test conditions.

INFORMATION

THIS FASTENER DOES NOT INSTALL FLUSH

MATERIALS

Carbon Steel, 300 Series Stainless Steel.

FINISHES

Bright Zinc Trivalent Clear Passivate (ZI), (Other Platings Available To Special Order).

PART NUMBER EXAMPLES

Type / Thread / Length / Finish = NHTS - M6 - 25 - ZI (High Torque Stud, M6 x 25mm, Steel, BZP)

NOTES

Maximum hardness of parent material: steel parts - 85HRB, Stainless Steel parts - 70HRB. Please note that Stainless Steel parts cannot usually be successfully installed into Stainless Steel Sheet. (See Self Clinch technical notes page for further details).