



# HUCK BOBTAIL IN EUROCODE 3

## Use of Huck BobTail in Steel Construction

“Special fasteners shall be used and special fastening methods shall be performed in accordance with the product manufacturer’s recommendations, and the appropriate sections of 8.1 to 8.7. This also applies to bolts connecting steelwork to other construction materials including chemically anchored foundation bolts.”

~ EN 1090-2:2018 section 8.8 [1]

## Huck BobTail

Mechanical values published in National Technical Approval Z-14.5-591 [2]

## Bolting (HV EN 14399-4 [3] & HRC EN 14399-10 [4])

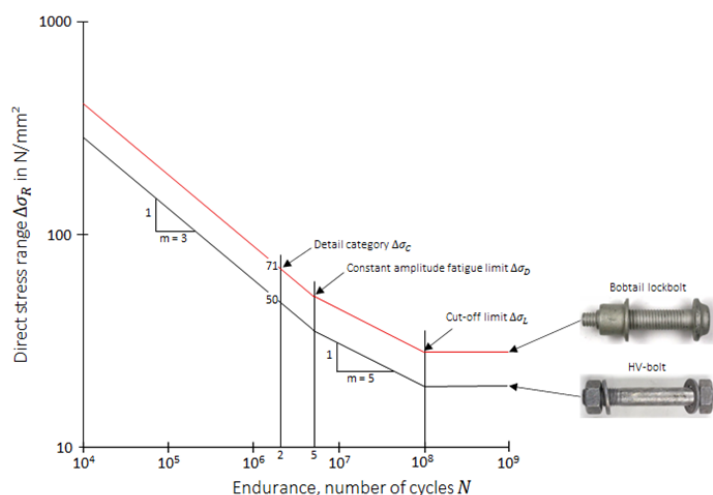
Mechanical values calculated in accordance with Eurocode 3 EN 1993-1-8 [5]

## EN 1993-1-8 [5] Mechanical Performance Comparison

Characteristic Preload $F_{p,c}$ (kN) EN 1993-1-8 Category B, C & E [5]			Characteristic Tension Resistance $F_{t,Rk}$ (kN) EN 1993-1-8 Category D & E [5]			Characteristic Shear Resistance $F_{v,Rk}$ (kN) EN 1993-1-8 Category A, B & C [5]		
Nom. Ø	Huck BobTail	Bolting	Nom. Ø	Huck BobTail	Bolting	Nom. Ø	Huck BobTail	Bolting
M12	64.7	50.0	M12	87.7	75.9	M12	48.4	42.2
M16	114.5	100.0	M16	163.0	141.3	M16	86.4	78.5
M20	179.3	160.0	M20	255.0	220.5	M20	135.4	122.5
M24	242.0	220.0	M24	367.0	317.7	M24	190.7	176.5
M27	315.0	290.0	M27	477.0	413.1	M27	242.2	229.5
M30	387.0	350.0	M30	583.0	504.9	M30	297.0	280.5
M36	561.0	510.0	M36	850.0	735.3	M36	422.5	408.5

## EN 1993-1-9 [6] Fatigue Performance Comparison

Load Case	Detail Category (Notch Group) EN1993-1-9 [6]	
	Huck BobTail	Bolting
Tension	71	50
Shear	100	100



## References

- [1] EN 1090-2:2018: Execution of steel structures and aluminium structures: Technical requirements for steel structures
- [2] Z-14.4-591: National technical approval. Lockbolts without pintails. Issue 04/11/2021
- [3] EN 14399-4:2015: High-strength structural bolting assemblies for preloading: System HV. Hexagon bolt and nut assemblies
- [4] EN 14399-10:2018: High-strength structural bolting assemblies for preloading: System HRC. Bolt and nut assemblies with calibrated preload
- [5] EN 1993-1-8:2005: Eurocode 3. Design of steel structures: Design of joints
- [6] EN 1993-1-9:2005: Eurocode 3. Design of steel structures: Fatigue