

**DECLARATION OF PERFORMANCE**  
HALFEN DETAN-S Tension rod system

**CONF-DOP\_DT-S 06/19-E**  
Nr. H58-05/0207

1.	Unique identification code of the product-type	<b>HALFEN DETAN-S Tension rod system</b>
2.	Type, batch or serial number or any other element allowing identification of the construction product as required pursuant to Article 11(4)	<b>HALFEN DETAN-S Tension rod system</b> <b>see ETA-05/0207 Annex B</b>
3.	Intended use or uses of the construction product, in accordance with the applicable harmonized technical specification, as foreseen by the manufacturer:	
	Generic type and use	Prefabricated Tension rod system consisting of tension rods, fork end connector, spades, double shear pin connectors, gusset plates, anchor discs and couplers
	Product size covered	Tension rods with metric ISO threads M 10 to M 95
	Material properties of the components	see ETA-05/0207 Annex B2
	Loading	Predominantly static loads
4.	Name, registered trade name or registered trade mark and contact address of the manufacturer as required pursuant to Article 11(5)	HALFEN GmbH (part of Leviat), Liebigstraße 14, 40764 Langenfeld, Germany
5.	Where applicable, name and contact address of the authorized representative whose mandate covers the tasks specified in Article 12(2)	-
6.	System or systems of assessment and verification of constancy of performance of the construction product as set out in Annex V	System 2+
7.	In case of the declaration of performance concerning a construction product covered by a harmonised standard	-
8.	In case of the declaration of performance concerning a construction product for which a European Technical Assessment has been issued	Deutsches Institut für Bautechnik (DIBt) issued ETA-05/0207 on the basis of CUAP 06.02/02, Version Feb. 2003, the notified inspection and certification body 0780 performed under system 2+ (i) initial inspection of the manufacturing plant and of factory production control; (ii) regular inspection, assessment and approval of factory production control; and issued the EC Certificate of Factory Production Control 0780-CPR-65038
9.	Declared performance	
	Essential Characteristics	Performance
	Material (BWR1)	see ETA-05/0207 Annex B2 and B11
	Geometry, dimensions and thread (BWR 1)	see ETA-05/0207 Annexes B3 to B10
	Reaction to fire (BWR2)	Class A1 in accordance with EN 13501-1:2007 +A1:2009
	Safety and accessibility in use (BWR 4)	see BWR 1

9.	Declared performance			
	Essential Characteristics	Design method	Performance	Harmonized technical specification
	Tension resistance	EN 1993-1-1:2005+AC:2009 EN 1993-1-8:2005+AC:2009	ETA-05/0207 Annex A	EAD 200032-00-0602
	System diameter [mm]		Design resistance of the Tension rod system $F_{t,RD}$ [kN] with $\gamma_{M0} = 1,00$ und $\gamma_{M2} = 1,25$	
	10		21,30	
	12		30,94	
	16		81,22	
	20		126,9	
	24		182,7	
	27		238,1	
	30		290,6	
	36		423,4	
	42		581,1	
	48		763,7	
	52		911,3	
	56		1052,4	
	60		1224,5	
	76		2016,2	
	85		2493,7	
	95		3161,6	
The values given for the partial safety factors $\gamma_{M0} = 1,00$ and $\gamma_{M2} = 1,25$ are recommended minimum values. They should be used in cases where no values are given in national regulations of the Member State where the tension rod system is used or in the respective National Annex to Eurocode 3.				
Where pursuant to Article 37 or 38 in the Specific Technical Documentation has been used, the requirements with which the product complies:		-		
10.	The performance of the product identified in points 1 and 2 is in conformity with the declared performance in point 9.			
This declaration of performance is issued under the sole responsibility of the manufacturer identified in point 4.				

Langenfeld, 01.10.2020

Signed for and on behalf of the manufacturer by


Richard Wachter  
(Managing Director)

ppa. Dr.-Ing. Dirk Albartus  
(Manager Engineering)