

DECLARATION OF PERFORMANCE
HALFEN ML1 masonry tie

CONF-DOP_ML1 03/14-E
No. H18-845-1/3-E

1.	Unique identification code of the product-type	HALFEN ML1		
2.	Type, batch or serial number or any other element allowing identification of the construction product as required pursuant to Article 11(4)	HALFEN ML1 see label on the packaging or product		
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	asymmetric masonry wall tie for horizontal connection of a wall to an anchor channel		
	Product size covered	ML1-125, ML1-185, ML1-245		
	For use with	Anchor channels HMS 25/15, HTA-CE 28/15 or HL 28/15		
	Base material / base material strength	HALFEN ML1: Stainless steel 1.4301 / 1.4307 acc. to EN 10088-2		
	Loading	Static and quasi static loading		
4.	Name, registered trade name or registered trade mark and contact address of the manufacturer as required pursuant to Article 11(5)	HALFEN GmbH, Liebigstraße 14, 40764 Langenfeld, Deutschland		
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 3 acc. to EN 845-1-2013		
7.	In case of the declaration of performance concerning a construction product covered by a harmonised standard	The notified testing laboratory ITB Katowice, ul. Korfantego 191, 40-153 Katowice European Notified Body No. 1488 performed the initial testing under system 3 and issued a test report No. LOK01-6024/13/R17OSK		
8.	In case of the declaration of performance concerning a construction product for which a European Technical Assessment has been issued	-		
9.	Declared performance			
	Essential Characteristics	Performance	Failure mode	Harmonized Technical Specification
	Max tension load with HTA-CE 28/15, HL 28/15 and with thin bed joints, mortar class 10	2500 N (50 mm anchorage length)	mortar failure	EN 845-1:2013
	Displacement at 1/3 of the tension load	0,28 mm		
	Max tension load with with HMS 25/15	1600 N	failure of the tie / channel	
	Displacement at 1/3 of the tension load	0,61 mm		
	Max shear load with thin bed joints and mortar class 10	1400 N (50 mm anchorage length)	mortar failure	
	Displacement at 1/3 of the shear load	0,87 mm		

	Compression load with ML1-245	375 N	bending of the tie	EN 845-1:2013
	Displacement at 1/3 of the shear load	0,08 mm		
	Anchorage length in faced brickwork	min. 50 mm		
	Water-repelling function	No resistance		
	Durability	Material code 3		
	Dangerous substances	NDP		
	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, 28.02.2014

Signed for and on behalf of the manufacturer by



Richard Wachter
(Managing Director)



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