

DECLARATION OF PERFORMANCE

DOP 13/0521-2018

Product type: **Filigran punching shear reinforcement FDB**

Intended use: Increasing punching shear resistance in flat slabs, foundations or base slabs

Manufacturer: Filigran Trägersysteme GmbH & Co. KG
Zappenberg 6
31633 Leese, Germanz

System for assessing and verifying constancy of performance:
System 1+
(relative to fire behaviour: System 4)

European Assessment Document: EAD 160055-00-0301

European Technical Assessment: ETA-13/0521 dated 14th June 2018

Technical Assessment Body: Deutsches Institut für Bautechnik (DIBt)

Reference number of the Notified Body: NB 0761

Declared performance:

Characteristic	Performance
Factor by which punching shear resistance is increased	
in monolithic slabs ¹⁾	$k_{pu,msl} = 2.1$
in semi precast slabs ¹⁾	$k_{pu,csl} = 2.1$
in alternative reinforcement layouts ¹⁾	$k_{pu,asl} = 2.1$
in base slabs and foundations ¹⁾	$k_{pu,fo} = 1.5$
Factor by which maximum bond fatigue is increased ¹⁾	$k_{max,i} = 1.6$
Characteristic fatigue resistance ¹⁾	$\Delta\sigma_{Rsk,n} = 66.86 + 336.91 \cdot 0.999956911^{(\lg n)^{5.912631783}}$ MPa
Fire behaviour	Class A1

¹⁾ Application of the declared performance figures is subject to the conditions of ETA-13/0521 and technical specification EOTA TR 058

The performance of the product in question is compliant with the declared performance. The aforementioned manufacturer is solely responsible for issuing this Declaration of Performance in compliance with (EU) Regulation No. 305/2011.

Signed for and on behalf of the manufacturer by:



Stefan von Weiler
(Managing Director)



ppa. Dr.-Ing. Johannes Furche
(Technical Manager)

Leese, 14th June 2018