

Declaration of Performance

DoP No.: E T A - 14/0216 for HD-H4 and HD-H6

1. Unique identification of the product type: 141390000100
2. Intended use: general building construction: hold-down connectors made of steel plate HR1 graded according to ISO 3573:2008 with tensile strength $Re \geq 270 \text{ N/mm}^2$ and $Rm \geq 440 \text{ N/mm}^2$ evaluated according to ISO 6892-1. They are used in combination with cylindric bolts Fe 360 B graded according to ISO 630 in order to connect glulam-wood column to glulam beam or sill connected to a rigid type support in like concrete or steel support. The glulam are pre-cut in factories with specific dimensions and tolerances.

The beam, sills and posts are of glulam according to EN 14080 with a minimum strength grade of GL24.

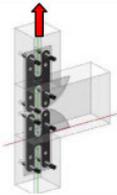
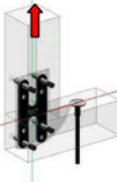
With regard to moisture behaviour of the support and/or beam, the use is possible in service classes 1 and 2 as defined in EN 1995-1-1:2004 for the hangers and hold-down made out of zinc coated steel.

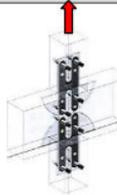
Static or quasi-static loads only.

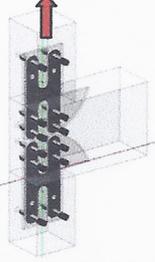
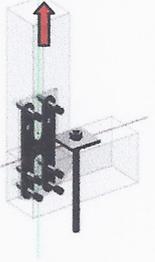
3. Manufacturer: Suteki Europe NV / Powerbuild, Weiveldlaan 41, A3, 1930 Zaventem, Belgium, www.suteki-europe.be
4. Authorized representative: Mr. Shintaro Nishimura
5. Safety in case of fire (BWR 2) : NPD
6. Hygiene, health and the environment (BWR 3): do not contain harmful or dangerous substances as defined in the EU database
7. Safety in use (BWR 4): For Basic requirement Safety in use the same criteria are valid as for Basic Requirement Mechanical resistance and stability.
8. Protection against noise (BWR 5) : Not relevant.
9. Energy economy and heat retention (BWR 6): Not relevant.
10. Sustainable use of natural resources (BWR 7): NPD
11. CE Marking Certificate Number: 0679-CPR-1028
12. Assessment and verification of constancy of performance (AVCP):

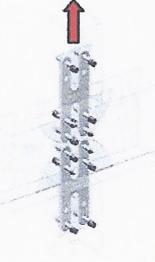
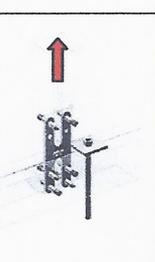
Product	Intended use	Level or class	System
STRUCTURAL TIMBER PRODUCTS/ELEMENTS AND ANCILLARIES	For fixing and/or supporting to concrete or wood, structural elements which contributes to the stability of the works.	—	2+

13. Mechanical Resistance

N°	Type	Pins number diameter and length	Post section	Beam or Sill section	Characteristic elastic resistance ($R_{y,k}$) values for load direction <u>UP</u> (KN)
HD-H4		8 x Ø13-105 or 120 mm	105 mm x 105 mm OR 120 mm x 120 mm	105 mm or 120 mm x 150 to 450 mm	$R_{y,k} = 8,58$
HD-H4		4 x Ø13-105 or 120mm	105 mm x 105 mm OR 120 mm x 120 mm	105 mm x 105 mm OR 120 mm x 120 mm	$R_{y,k} = 10,2$

N°	Type	Pins number diameter and length	Post section	Beam section	Characteristic elastic resistance ($R_{y,k}$) values for load direction <u>UP</u> (KN)
HD-H4		4 x Ø13-105 or 120mm	105 mm x 105 mm OR 120 mm x 120 mm	105 mm or 120 mm x 150 to 450 mm	$R_{y,k} = 16,0$
HD-H4		4 x Ø13-105 or 120mm	105 mm x 105 mm OR 120 mm x 120 mm	105 mm x 105 mm OR 120 mm x 120 mm	$R_{y,k} = 20,1$

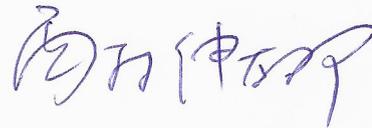
N°	Type	Pins number diameter and length	Post section	Beam or Sill section	Characteristic elastic resistance ($R_{y,k}$) values for load direction <u>UP</u> (KN)
HD-H6		12 x Ø13-105 or 120mm	105 mm x 105 mm OR 120 mm x 120 mm	105 mm or 120 mm x 150 to 450 mm	$R_{y,k}=13,8$
HD-H6		12 x Ø13-105 or 120mm mm	105 mm x 105 mm OR 120 mm x 120 mm	105 mm x 105 mm OR 120 mm x 120 mm	$R_{y,k}=14,9$

HD-H6		6 x Ø13-105 or 120mm	105 mm x 105 mm OR 120 mm x 120 mm	105 mm or 120 mm x 150 to 450 mm	$R_{y,k}=19,1$
HD-H6		6 x Ø13-105 or 120mm mm	105 mm x 105 mm OR 120 mm x 120 mm	105 mm x 105 mm OR 120 mm x 120 mm	$R_{y,k}=27,7$

Name (Print):

SHINTARO NISHIMURA

Signature:



Position:

DIRECTOR

Date and Place of Issue:

30/01/2017

ZAVENTEM, BELGIUM