

Declaration of Performance

DoP No.: E T A - 14/0216 for S-3A

1. Unique identification of the product type: 141090031120
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.

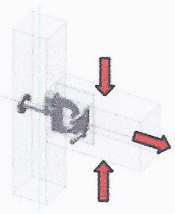
With regard to moisture behaviour of the support and/or beam, the use is possible in service classes 1 and 2 as defined in EN 1995-1-1:2004 for the hangers and hold-down made out of zinc coated steel.

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+

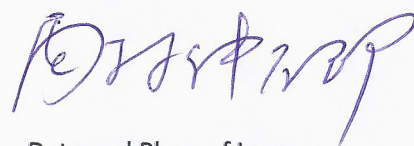
13. Mechanical Resistance

N°	Type	Pins number diameter and length	Post/ header section	Beam section	Characteristic Ultimate (R_k) and elastic ($R_{y,k}$) resistance values for each load direction (KN)		
					UP	DOWN	TRACTION (horizontale)
S-3A		2 x \varnothing 13-105 mm or 120 mm	105 mm x 105 mm Or 120 mm x 120 mm	105 mm or 120 mm x 180 to 450 mm	$R_{y,k} = 4,24$	$R_{y,k} = 17,6$	$R_{y,k} = 19,5$
		3 x \varnothing 13-105 mm or 120 mm	105 mm x 105 mm Or 120 mm x 120 mm	105 mm or 120 mm x 180 to 450 mm	$R_{y,k} = 6,58$	$R_{y,k} = 22,0$	$R_{y,k} = 19,5$

Name (Print):

SHINTARO NISHIMURA

Signature:



Position:

DIRECTOR

Date and Place of Issue:

30/01/2017