

# Declaration of Performance

DoP No.: E T A - 14/0216 for S-2A

1. Unique identification of the product type: 141090021120
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.

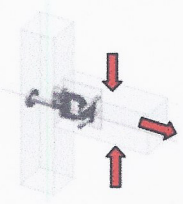
With regard to moisture behaviour of the support and/or beam, the use is possible in service classes 1 and 2 as defined in EN 1995-1-1:2004 for the hangers and hold-down made out of zinc coated steel.

Static or quasi-static loads only.

3. Manufacturer: Suteki Europe NV / Powerbuild, Weiveldlaan 41, A3, 1930 Zaventem, Belgium, [www.suteki-europe.be](http://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+

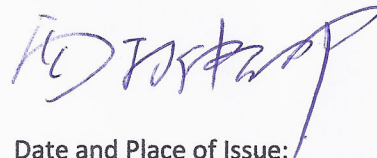
13. Mechanical Resistance

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-2A		2 x $\varnothing$ 13-105 or 120 mm	105 mm x 105 mm Or 120 mm x 120 mm	105 mm or 120 mm x 150 to 240 mm	$R_{y,k} = 5,69$	$R_{y,k} = 12,5$	$R_{y,k} = 18,2$

Name (Print):

SHINTARO NISHIMURA

Signature:



Position:

DIRECTOR

Date and Place of Issue:

30/01/2017

ZAVENTEM, BELGIUM