EN

DECLARATION OF PERFORMANCE

No Sikla 0450-A

REGULATION (EU) No 305/2011

Unique identification code of the product-type	Angle Connector CN 46
Type number	see "Annex"
Intended use	Structural steel work ≤ EXC 2
Manufacturer	Sikla Holding GmbH, Ägydiplatz 3 4600 Thalheim bei Wels | Austria
System of AVCP	System 2+
Harmonised standard	EN 1090-1:2009+A1:2011
Notified body	TÜV Rheinland Industrie Service GmbH | NB 0035

Performance property	**Declared performance**
Tolerances on dimensions and shape	EN 1090-2:2018+A1:2024
Weldability	Not designed for
Fracture toughness / Impact strength	NPD
Load-bearing Capacity	see "Annex"
Deformation in serviceability limit state	NPD
Fatigue strength	NPD
Resistance to Fire	NPD
Reaction to fire	A1 (Stahl) EN 13501-1
Release of Cadmium and its compounds	NPD
Emmision of Radioactivity	NPD
Durability	NPD

The performance of the product identified above is in conformity with the set of declared performances. This declaration of performance is issued, in accordance with REGULATION (EU) No 305/2011, under the sole responsibility of the manufacturer identified above.

Signed for and on behalf of the manufacturer by:

Villingen-Schwenningen, 21.10.2026

Peter Menz | Head of R&D

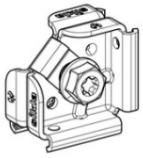
Disclaimer:
The original of this declaration of performance was written in German.
In the event of deviations in the translation, the German version shall be valid.

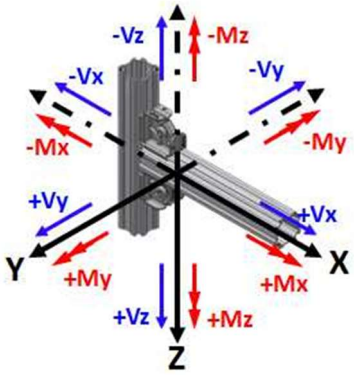
Annex

Annex – Sikla Conformed Items

Artikel Nummer *Item Number*	Bezeichnung *Description*
803545	CN 46 HCP

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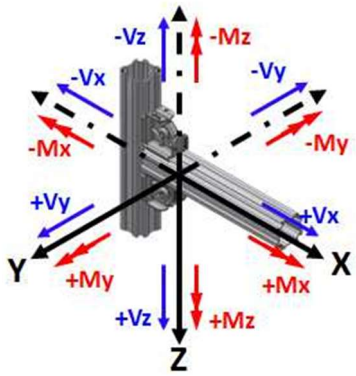
	Product:	Connector CN 46 **single use**
	Description	Press the connector onto both adjoining profiles and secure by tightening the screw. Depending on the load, one or two brackets can be used per connection. For cantilevers, connectors must always be used in pairs.
Boundary Conditions:		



$\pm V_{x,Rd}$ [kN]	2,18
$\pm C_{Vx,Rd}$ [kN/mm]	5,78
$\pm C_{Vx,Geb.}$ [kN/mm]	6,44
$\pm V_{y,Rd}$ [kN]	3,29
$\pm C_{Vy,Rd}$ [kN/mm]	0,63
$\pm C_{Vy,Geb.}$ [kN/mm]	0,71
$+V_{z,Rd}$ [kN]	3,57
$+C_{Vz,Rd}$ [kN/mm]	1,23
$+C_{Vz,Geb.}$ [kN/mm]	1,40
$-V_{z,Rd}$ [kN]	4,79
$-C_{Vz,Rd}$ [kN/mm]	0,92
$-C_{Vz,Geb.}$ [kN/mm]	1,20
$+M_{y,Rd}$ [kNm]	0,54
$+C_{My,Rd}$ [kNm/rad]	13,45
$+C_{My,Geb.}$ [kNm/rad]	19,45
$-M_{y,Rd}$ [kNm]	0,48
$-C_{My,Rd}$ [kNm/rad]	16,69
$-C_{My,Geb.}$ [kNm/rad]	21,01
$\pm M_{z,Rd}$ [kNm]	0,52
$\pm C_{Mz,Rd}$ [kNm/rad]	8,66
$\pm C_{Mz,Geb.}$ [kNm/rad]	12,20

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	Product:	Connector CN 46 **dual use**
	Description	Press the connector onto both adjoining profiles and secure by tightening the screw. Depending on the load, one or two brackets can be used per connection. For cantilevers, connectors must always be used in pairs.
Boundary Conditions:		



$\pm V_{x,Rd}$ [kN]	1,64
$\pm C_{Vx,Rd}$ [kN/mm]	3,47
$\pm C_{Vx,Geb.}$ [kN/mm]	3,24
$\pm V_{y,Rd}$ [kN]	3,53
$\pm C_{Vy,Rd}$ [kN/mm]	0,50
$\pm C_{Vy,Geb.}$ [kN/mm]	0,57
$\pm V_{z,Rd}$ [kN]	2,01
$\pm C_{Vz,Rd}$ [kN/mm]	3,16
$\pm C_{Vz,Geb.}$ [kN/mm]	3,51
$\pm M_{y,Rd}$ [kNm]	0,29
$\pm C_{My,Rd}$ [kNm/rad]	8,43
$\pm C_{My,Geb.}$ [kNm/rad]	10,55
$\pm M_{z,Rd}$ [kNm]	0,13
$\pm C_{Mz,Rd}$ [kNm/rad]	1,34
$\pm C_{Mz,Geb.}$ [kNm/rad]	2,09

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