



PRODUCT DATASHEET

TENI® Decking connector

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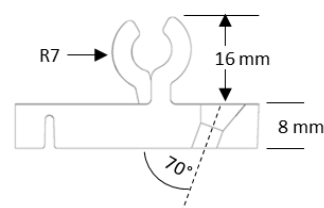
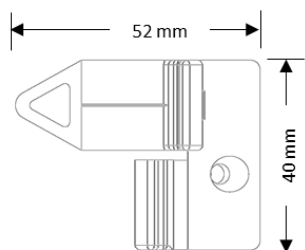


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1. Unique identification code of the product type	TENI DECKING CONNECTOR
2. Label for identification of the product	Type description: See product packaging
3. Intended purpose of use	Decking connector for concealed mounting
4. Test method for evaluating and monitoring performance	TENI: Cyclic test method for the determination of deformation displacements and resilience performance SUBSTRUCTURE RELO T56: 3-point bending tests with calculations on a single span beam with uniform load L/500
5. Harmonized standard - CE declaration of conformity mark	Not subject to declaration of conformity
6. Declared performance	According to the tables below

General information	
1.1. Fastening type	Fixed point - sliding point The fixed point keeps the board in position - the sliding point ensures controlled compensation of swelling and shrinkage effects. This type of function is suitable for technically modified, dimensionally stable wood species and composite decking boards
1.2 Material	- TENI POM Polyoxymethylene UV and weather resistant - System screw ELITA1 Ø 4.2 x 45 mm and SOLIDA1 4.0 x 30mm Stainless steel 1.4006 / X12Cr13 / AISI 410 - RELO T56 aluminum substructure rail EN AW 6060T66 pressed blank
1.3 Dimensions	According to the following illustrations

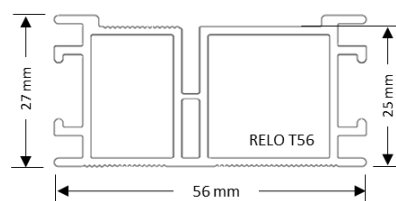
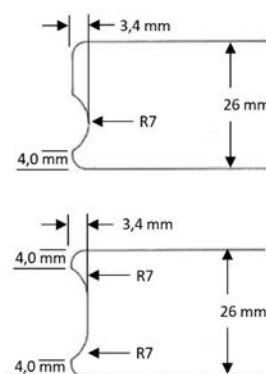
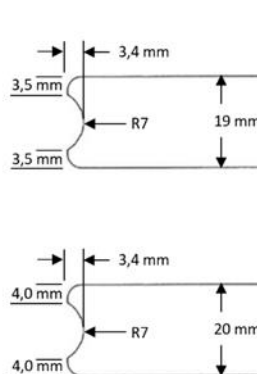
Dimensions:
Decking profiles
Decking connector
Substructure rail



Tolerances Decking profiles:
Groove shoulder height: 3.5 - 4.0 mm
manufacturing range

Groove shoulders below 3.5 mm reduce the mechanical interlock and load transfer with the fastener.

Groove shoulders bigger than 4.0 mm increase the joint gap between decking boards and reduce connection performance.





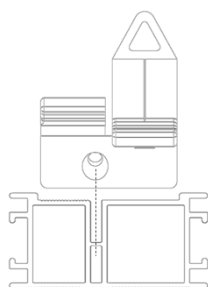
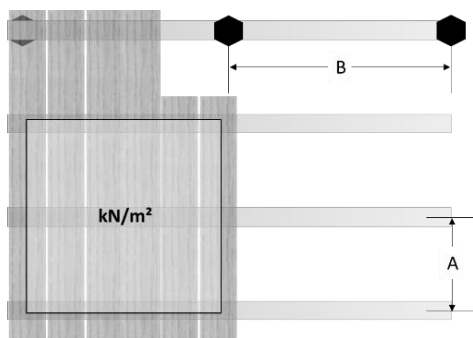
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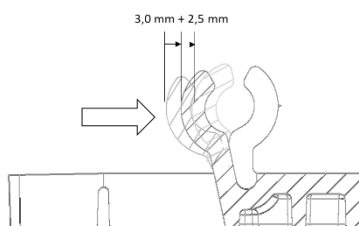


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RELO T 56 B 56 x H 27 mm Design load kN/m ²	Centre distance [A mm]						
	300	350	400	450	500	550	600
Load bearing support distances [B mm]	400	19,35	16,58	14,51	12,90	11,61	10,55
	450	13,59	11,65	10,19	9,06	8,15	7,41
	500	9,90	8,49	7,43	6,60	5,94	4,95
	550	7,44	6,38	5,58	4,96	4,47	3,72
	600	5,73	4,91	4,30	3,82	3,44	2,87
	650	4,51	3,86	3,38	3,01	2,71	2,25
	700	3,61	3,09	2,71	2,41	2,17	1,80
	750	2,93	2,52	2,20	1,96	1,76	1,47
	800	2,42	2,07	1,81	1,61	1,45	1,21
	850	2,02	1,73	1,51	1,34	1,21	1,01
	900	1,70	1,46	1,27	1,13	1,02	0,85
	950	1,44	1,24	1,08	0,96	0,87	0,72
	1.000	1,24	1,06	0,93	0,83	0,74	0,62
	1.050	1,07	0,92	0,80	0,71	0,64	0,53
	1.100	0,93	0,80	0,70	0,62	0,56	0,47

Irregularities in the decking construction caused by deformation of the decking boards and/or of the substructure may cause creaking noises when walking on the deck. These are usually temporary and unusual occurrences that can also be caused by an extreme change in weather conditions [large swelling and shrinkage within a short period of time].



TENI	Cycle rotations						
	1.000	1.500	2.000	2.500	3.000	3.500	4.000
Pre-tensioning Displacement [mm]	3,00	3,00	3,00	3,00	3,00	3,00	3,00
Deformation Displacement [mm]	2,50	2,50	2,50	2,50	2,50	2,50	2,50
Total displacement [mm]	5,50	5,50	5,50	5,50	5,50	5,50	5,50
Reset state difference [mm]	0,00	0,00	0,00	0,00	0,00	0,00	0,00

TEST PROCEDURE:

Cyclic test procedure to determine the deformation paths and resilience performance of the flexible sliding point. The flexible sliding point was pre-tensioned by 3.0 mm and held in position - corresponding to the pre-tensioning in the installed state. Subsequently the sliding point was cyclically stressed with 4,000 cycles and a 2.5 mm displacement [swelling process of the boards]. After every 500 cycles, the resilience performance was checked for possible differences with a measuring gauge.

FOR INTERNAL USE ONLY

All information is based on our current knowledge and experience - no guarantee can be derived from our information.

The suitability of the product for a specific application can only be guaranteed by our own tests and trials. The installation is according to the manufacturer's specifications, tips and tricks, installation instructions, technical rules, guidelines, and country-specific regulations. If necessary, the compatibility of the decking connectors with the decking boards must be checked with the board manufacturer/supplier. The correct processing and installation of our products is beyond our control and therefore not our responsibility. We reserve the right to make errors, changes to the product range and technical modifications.