PRODUCT DATASHEET
PLATA® Decking connector

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1. Unique identification code of the product type	PLATA P Decking connector
	PLATA C Decking connector
2. Label for identification of the product	Type description: See product packaging
3. Intended purpose of use	Decking connector for side grooved boards
4. Manufacturer	FIXINGGROUP GmbH
5. Test method for evaluating and monitoring performance	Tensile and shearing tests Determination of limit values and deformation behaviour
6. Harmonized standard - CE declaration of conformity mark	Not subject to declaration of conformity
7. Declared performance	According to the table below

General information	
1.1. Fastening type	Side groove hidden mounting system Two integrated locking grips on the groove engagement plate on both sides, possible swelling or shrinkage of the decking boards cannot be controlled by the fastener. This type of function is only suitable for decking boards with very high dimensional stability. Swelling and shrinkage movements can be compensated for up to 2.0 mm per board.
1.2 Material	- PLATA P Stainless steel 1.4016 with black coating Mechanical and chemical wear of the black surface coating cannot be excluded - PLATA C PP Polypropylen black UV stabilised - System screw UNIA Ø 4,8 mm - Revert to datasheet UNIA
1.3 Dimensions	According to the following illustrations
1.4 Tensile and shearing tests The limit values are determined by tensile and shear stress loading. The mechanical properties of the load-bearing capacity and the deformation behaviour were determined via a nodal point. Feed speed 4.00 mm/min	

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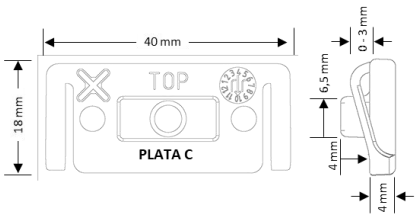
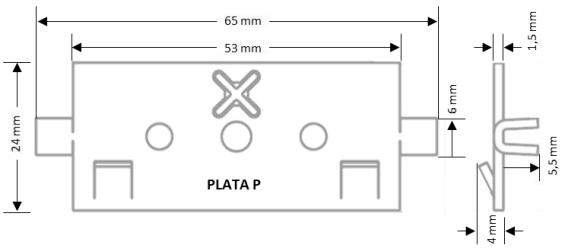
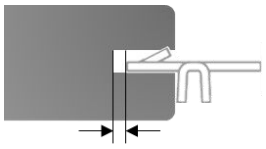
1.3 Decking connector Dimensions

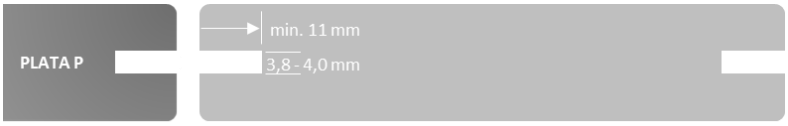


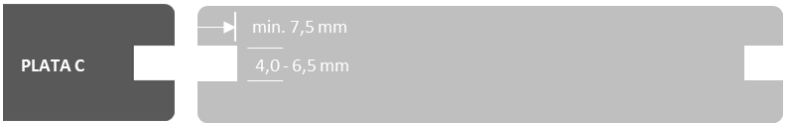


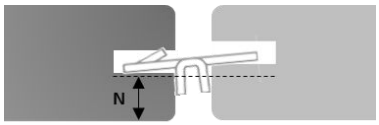
1.3 Decking side groove dimensions



The groove depth must be sufficient to ensure that any swelling effects of the decking boards do not cause the back of the groove to touch the mounting plate.





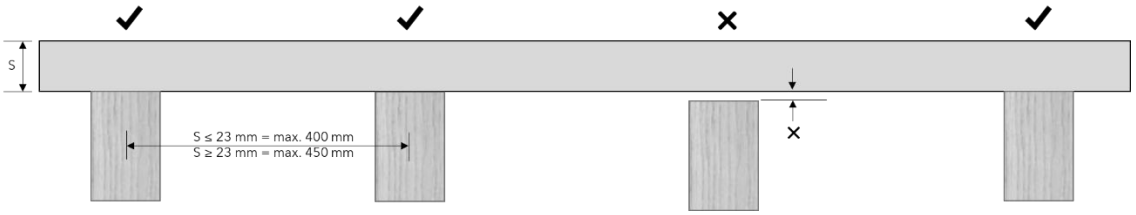


The groove height [N] can range from 6 - 12 mm depending on the type of material - different groove heights must not be installed in combination.

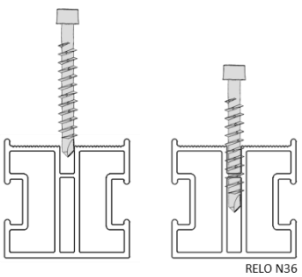
Prior to mass production, installation tests must be carried out to check the accuracy of fit, functionality and ease of installation.

The maximum deformation force of the decking boards must not exceed the tested limit values of the connectors.

1.3 Substructure dimensions



Compatible wooden substructure:
Preferably softwoods such as e.g. larch, Douglas fir, thermo-pine, thermo-spruce or species with similar density.



Compatible aluminium substructure joist:
Preferably RELO N36 system substructure with integrated screw channel

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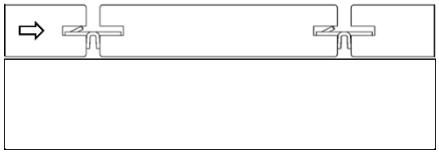
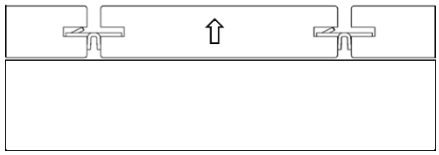


PLATA Shearing Values		Thermo-Pine		| Substructure RELO N			
F Force [kN] | **S** Def. [mm]		**F**	**S**	**F**	**S**	**F**max	**S**max
Decking test sample Thermo-Pine	TEST 1	0,98	2,0	1,76	4,0	3,85	10,0
	TEST 2	1,03	2,0	1,93	4,0	3,95	10,0
	TEST 3	1,05	2,0	1,87	4,0	3,86	10,0
	Mean Value	**1,02**	**2,0**	**1,85**	**4,0**	**3,89**	**10,0**
	Minimum	0,98	2,0	1,76	4,0	3,85	10,0
	Maximum	1,05	2,0	1,93	4,0	3,95	10,0
	max. load_Deformation of the board and system screw | Decking 26 x 125 mm						

PLATA Shearing Values		Thermo-Pine		| Substructure Softwood			
F Force [kN] | **S** Def. [mm]		**F**	**S**	**F**	**S**	**F**max	**S**max
Decking test sample Thermo-Pine	TEST 1	1,62	2,0	2,74	4,0	5,89	10,0
	TEST 2	1,61	2,0	2,61	4,0	4,45	10,0
	TEST 3	1,09	2,0	1,69	4,0	4,13	10,0
	Mean Value	**1,44**	**2,0**	**2,35**	**4,0**	**4,82**	**10,0**
	Minimum	1,09	2,0	1,69	4,0	4,13	10,0
	Maximum	1,62	2,0	2,74	4,0	5,89	10,0
	max. load_Deformation of the board and system screw | Substructure Larch | Decking 26 x 125 mm						

PLATA Shearing Values		Thermo-Pine		| Substructure RELO P			
F Force [kN] | **S** Def. [mm]		**F**	**S**	**F**	**S**	**F**max	**S**max
Decking test sample Thermo-Pine	TEST 1	1,39	2,0	2,27	4,0	4,12	10,0
	TEST 2	1,25	2,0	2,27	4,0	4,00	10,0
	TEST 3	1,32	2,0	2,32	4,0	4,20	10,0
	Mean Value	**1,32**	**2,0**	**2,29**	**4,0**	**4,11**	**10,0**
	Minimum	1,25	2,0	2,27	4,0	4,00	10,0
	Maximum	1,39	2,0	2,32	4,0	4,20	10,0
	max. load_Deformation of the board and system screw | Decking 26 x 125 mm						



PLATA Tensile Values		Substructure Larch		Substructure RELO P		Substructure RELO N	
F Force [kN] | **S** Def. [mm]		**F**	**S**	**F**	**S**	**F**	**S**
Decking test sample Thermo-Pine	TEST 1	1,00	0,9	1,04	0,9	1,01	0,8
	TEST 2	1,09	0,8	0,98	0,6	0,98	0,7
	TEST 3	1,10	0,7	1,17	1,1	1,05	0,8
	Mean Value	**1,06**	**0,8**	**1,06**	**0,9**	**1,01**	**0,8**
	Minimum	1,00	0,7	0,98	0,6	0,98	0,7
	Maximum	1,10	0,9	1,17	1,1	1,05	0,8
	max. load_Breakage of side groove						