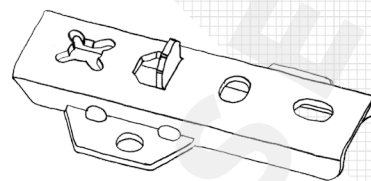


PRODUCT DATA SHEET

This issue dated 24.11.2016 is not subject to print or paper form.

DILA

UNIVERSAL HIDDEN DECKING FASTENING SYSTEM



DESCRIPTION

DILA is a universal hidden fastening system for wooden or wood like decking materials

APPLICATION

Fastener for decking board installation. Assembly according to installation instructions.

FUNCTION DESCRIPTION

The decking board is fixed using a fully-threaded UNIA1 self-tapping screw to the sub-structure whether being made out of wood or wood like materials or Aluminium.

WOOD SPECIES AND PROPERTIES

Suitable for soft and hard materials for example Larch, Cumaru, Ipe, Teak, Bankerai, Chemically and thermally modified wood species.

The space between boards depends on the decking boards width and properties of the wood species.

The ultimate limit states of maximum deformation and force absorption [counteracting the twisting properties of the individual wood species] are documented in the table on page 2.

The wood specie Larch was selected for the system tests [gross density of 580 kg / m³].

MATERIAL

DILA2 Stainless steel rostfrei 1.4301/X5CrNi18-10/AISI 304

Optional with a black zinc phosphate coating +
2 x Deltaseal



UNIA1 Stainless steel rostfrei 1.4006/X12Cr13/AISI 411

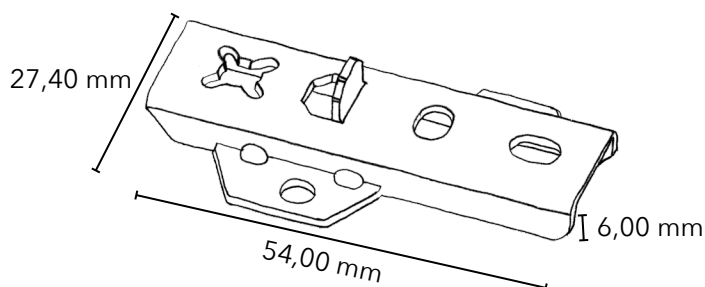
Optional with a black galvanized coating

STANDARD - CE MARK

The scope of application is not subject to approvals, certificates, etc. due to the lack of standard conformity requirements.

DIMENSIONS

Total Length	54,00 mm
Total width	27,40 mm
Design height	6,00 mm



Dimensions of the supplied system screws UNIA - see product data sheet UNIA

PRODUCT DATA SHEET - DILA

TEST PROCEDURE

Connections with mechanical connecting means - general principles for the determination of strength and deformation behaviour.

SELECTED LOADING METHODS

Applied threshold force, feed rate 4.00 mm / min.

Loads are increased up to breaking point.

MECHANICAL CHARACTERISTICS

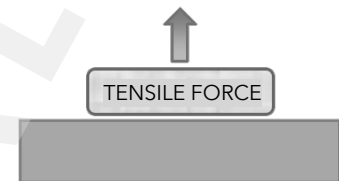
The calculation of limit values were determined by tensile loading. The mechanical properties of strength and deformation behaviour have been identified through different directions meeting a node point.

TEST PARAMETERS AND RESULTS

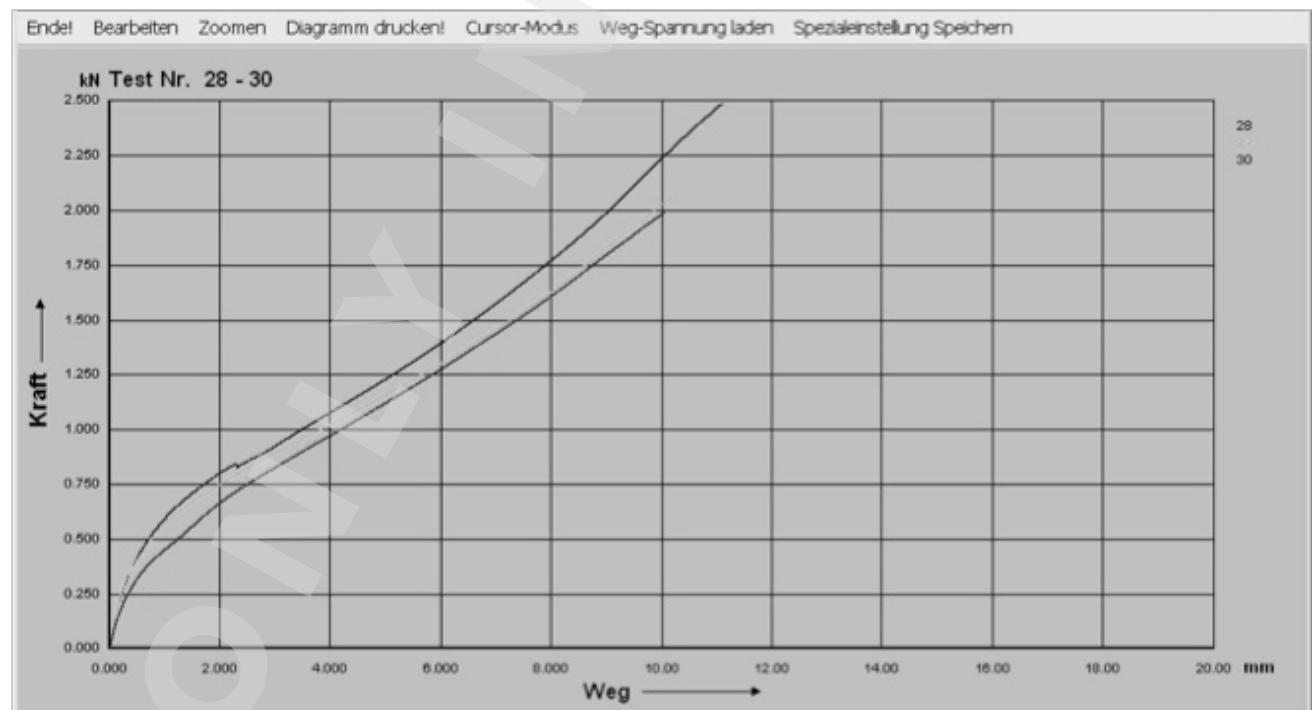
TENSILE FORCE

Force absorption F [kJ] / deformation displacement S [mm]

Parameter set max. Force consumption up 10 mm deformation



TEST PIECE SUMMARY	LARCH					
	F [kJ]	S [mm]	F [kJ]	S [mm]	F [kJ]	S [mm]
	2,49	11,09	1,08	4,00	0,81	2,00
	2,06	10,16	1,04	4,00	0,75	2,00
	1,99	10,06	0,95	4,00	0,66	2,00
Mean Value	2,18	10,44	1,02	4,00	0,74	2,00
Minimum	1,99	10,06	0,95	4,00	0,66	2,00
Maximum	2,49	11,09	1,08	4,00	0,81	2,00
Max. stress_deformation DILA						



All data is based on our present knowledge and experience - a guarantee can not be derived from our data. The suitability of the product for a specific application can only be ensured by means of a test or trial. Errors, assortments and technical modifications are reserved. This is a translation - in case of doubt, please consult the original German version.