

## PRODUCT DATA SHEET – DRIVE S

### Section 1. PRODUCT DESCRIPTION

#### SCREWED-IN FASTENER FOR FASTENING OF POLYSTYRENE FOAM IN WOODEN SUBSTRATE – DRIVE S

Screwed-in fastener for fastening of polystyrene foam in wooden substrate **DRIVE S** is made from polyamide, and the pin from galvanized steel, with the head sealed in glass-fibre reinforced polyamide which reduces spot thermal conductivity of the fastener. Comes with polystyrene disc **EDKS**. Fastener **DRIVE S** should be used to transfer loads of wind suction forces and applied as an additional mechanical fixing for the whole system, recommended for:

- EPS polystyrene
- XPS polystyrene

Types of substrates on which fastener **DRIVE S** can be installed:

- structural timber grade  $\geq$  C22
- OSB wood-based panels
- fiber cement boards

Fasteners hold National Technical Assessment: ITB-KOT-2019/0913 edition 1

Fasteners hold DIBt: Z-9.1-875

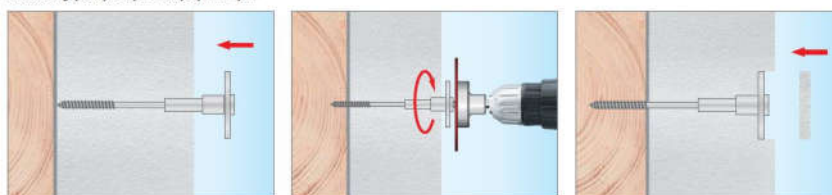


### Section 2. METHOD OF INSTALLATION

1. Before installation check if wooden substrate is defect-free (cracks, knots)
2. Select adequate length of the fastener so that the threaded part of the screw is in the construction material of the wall
3. Minimum length of the fastener is:  $L_d = t_{fix} + h_{eff}$ , where:  $t_{fix}$  - thickness of insulation material to be fixed,  $h_{eff}$  - depth of fastener anchorage in the substrate (given in the Technical Data Sheet and in National Technical Assessment)
4. Number of fasteners per 1m<sup>2</sup> should be defined in thermal insulation design. Recommended number of fasteners: FOR POLYSTYRENE:
  - up to the height of 15m from the ground, as minimum use 6pcs/m<sup>2</sup> in the middle area of a wall and 8pcs/m<sup>2</sup> in a corner area
  - above 15m from the ground, as minimum use 8pcs/m<sup>2</sup> in the middle area of a wall and 10pcs/m<sup>2</sup> in a corner area

**Recommendation shall not replace thermal insulation design!!**
5. When installing the fasteners it is not necessary to drill holes beforehand (pin threaded for use in timber)
6. Screw in the support washer using **EDST** tool and cover up the installation spot using the delivered polystyrene disc **EDKS/EDKSG**

Montaż zagłębiony z krążkiem styropianowym



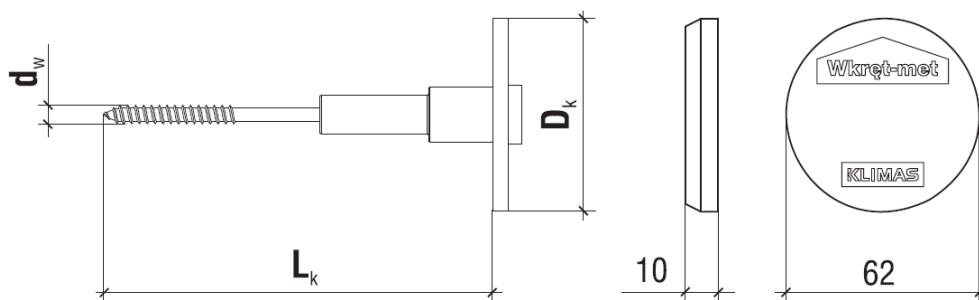
### Section 3. TECHNICAL DATA

TECHNICAL PARAMETERS		
Parameter	Unit	Value
Plug diameter	$d_k$ [mm]	6
Plate diameter	$D_k$ [mm]	60
Substrate type	[-]	wood C22/ OSB/fiber cement boards
Plug material	[-]	PA
Pin material	[-]	Galvanized steel, head sealed in PA + GF
Approval	[-]	ITB-KOT-2019/0913 Z-9.1-875

STRENGTH PARAMETERS		
Substrate category	Effective anchorage depth [mm]	Characteristic load-bearing capacity from the ground [kN]
Construction wood, class C22 ÷ C24	16	1,33
Construction wood, class C22 ÷ C24	20 ÷ 40	1,52
OSB wood-based board	15	0,84
Fiber cement board	12	0,37

\*Parameters in accordance with: ITB-KOT-2019/0913

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SELECTION TABLE			
Product code	Screw diameter and length	Insulation material thickness	Number of pieces in a box
	$d_k \times L_k$ [mm]	$t_{fix}$ [mm]	[pcs]
DRIVE-S-06120	6x110	90	100
DRIVE-S-06140	6x130	110	100
DRIVE-S-06160	6x150	130	100
DRIVE-S-06180	6x170	150	100
DRIVE-S-06200	6x190	170	100
DRIVE-S-06220	6x210	190	100
DRIVE-S-06240	6x230	210	100
DRIVE-S-06260	6x250	230	100
DRIVE-S-06280	6x270	250	100
DRIVE-S-06300	6x290	270	100
DRIVE-S-06320	6x310	290	100

**Section 4. REMARKS**

1. All previous versions of this Product Data Sheet shall cease to be valid
2. Data given in this Product Data Sheet is in accordance with current knowledge and published in good faith. KLIMAS Sp. z o.o. is not responsible for correctness and quality of the fixing if recommendations regarding method of use and installation are not followed.