

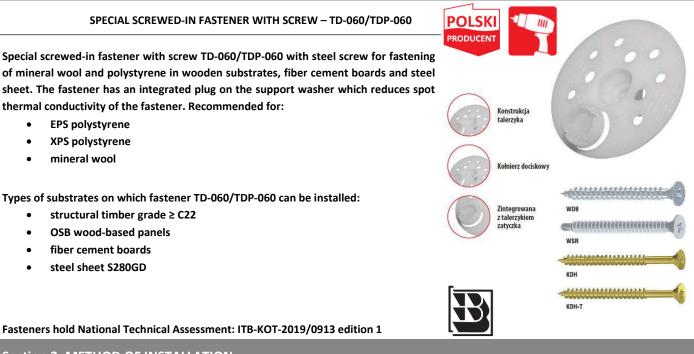
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PRODUCT DATA SHEET – TD-060/TDP-060



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Section 1. PRODUCT DESCRIPTION



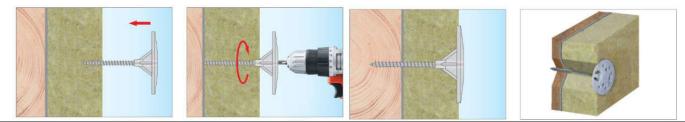
Section 2. METHOD OF INSTALLATION

- 1. Before installation identify the substrate (wooden substrate, fiber cement boards, steel sheet) and select suitable fasteners
- 2. Select adequate length of the screw so that the threaded part of the screw is in the construction material of the wall
- 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 1m² 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/m² in the middle area of a wall and 8pcs/m² in a corner area

⁻ above 15m from the ground, as minimum use 8pcs/m² in the middle area of a wall and 10pcs/m² in a corner area; for WOOL number of fasteners should be increased in each area by 2pcs/m²

Recommendation shall not replace thermal insulation design!!

- 5. When installing the fasteners it is not necessary to drill holes beforehand (screw threaded for use in timber or steel)
- 6. Using screw gun tighten the screw so that the fastener support washer is faced with thermal insulation material



Section 3. TECHNICAL DATA

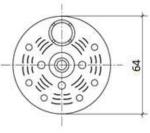
TECHNICAL PARAMETERS								
Parameter	Unit	Steel sheet ≤ 0.88mm	Steel sheet > 0.88mm	Timber, OSB, cement board				
Plug diameter	d _w [mm]	4.8	4.8	5.0/6.0				
Plate diameter	D _k [mm]	64	64	64				
Plug material	[-]	Polyamide PA/Polypropylene	Polyamide PA/Polypropylene	Polyamide PA/Polypropylene				
Pin material	[-]	Galvanized steel	Galvanized steel	Galvanized steel				
National Technical Assessment	[-]	ITB-KOT-2019/0913	ITB-KOT-2019/0913	ITB-KOT-2019/0913				



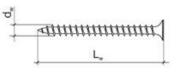


PRODUCT DATA SHEET – TD-060/TDP-060

STRENGTH PARAMETERS								
Substrate type	Effective anchorage depth h _{eff} [mm]	Fastener marking	Characteristic load- bearing capacity from the ground [kN]	Fastener marking	Characteristic load-bearing capacity from the ground [kN]			
Steel sheet profile 0.50	therethrough	TD+WDB / TDP+WDB	0.40 / 0.40	TD+WSR / TDP+WSR	0.34 / 0.34			
Steel sheet profile 0.75	therethrough	TD+WDB / TDP+WDB	0.66 / 0.66	TD+WSR / TDP+WSR	0.92 / 0.92			
Steel sheet profile 0.88	therethrough	TD+WDB / TDP+WDB	1.11 / 1.13	TD+WSR / TDP+WSR	1.11 / 1.44			
Steel sheet profile 1.00	therethrough	-	-	TD+WSR / TDP+WSR	1.11 / 1.84			
Steel sheet profile 1.25	therethrough	-	-	TD+WSR / TDP+WSR	1.11 / 1.84			
Wood C22	25	TD+KDH 5,0 / TDP+KDH	1.19 / 2.08	-	-			
Wood C22	30	-	-	TD+KDH 6,0 / TDP+KDH	2.08 / 2.47			
OSB	12.5	TD+KDH 5,0 / TDP+KDH	0.84 / 0.84	TD+KDH 6,0 / TDP+KDH	0.95 / 0.95			
OSB	18	TD+KDH 5,0 / TDP+KDH	1.19 / 1.26	TD+KDH 6,0 / TDP+KDH	1.38 / 1.38			
Cement board-fibre	12.5	TD+KDH 5,0 / TDP+KDH	0.86 / 0.86	TD+KDH 6,0 / TDP+KDH	0.86 / 0.86			







SELECTION TABLE								
Insulation material thickness [mm]	Washer	Steel sheet ≤ 0.88mm	Steel sheet > 0.88mm	Timber, OSB, fiber cement board				
		WDB	WSR	KDHT/KDH				
30	TD-060/TDP-060	WDB-48050	WSR-48050	KDHT/KDH-05060				
40	TD-060/TDP-060	WDB-48060	WSR-48060	KDHT/KDH-05070				
50	TD-060/TDP-060	WDB-48070	WSR-48070	KDHT/KDH-05080				
60	TD-060/TDP-060	WDB-48080	WSR-48080	KDHT/KDH-05090				
70	TD-060/TDP-060	WDB-48090	WSR-48090	KDHT/KDH-05100				
80	TD-060/TDP-060	WDB-48100	WSR-48100	KDHT/KDH-06110				
90	TD-060/TDP-060	WDB-48120	WSR-48120	KDHT/KDH-06120				
100	TD-060/TDP-060	WDB-48120	WSR-48120	KDHT/KDH-06140				
110	TD-060/TDP-060	WDB-48140	WSR-48140	KDHT/KDH-06140				
120	TD-060/TDP-060	WDB-48140	WSR-48140	KDHT/KDH-06160				
130	TD-060/TDP-060	WDB-48160	WSR-48160	KDHT/KDH-06160				
140	TD-060/TDP-060	WDB-48160	WSR-48160	KDHT/KDH-06180				
150	TD-060/TDP-060	WDB-48200	WSR-48200	KDHT/KDH-06180				
160	TD-060/TDP-060	WDB-48200	WSR-48200	KDHT/KDH-06200				
170	TD-060/TDP-060	WDB-48200	WSR-48200	KDHT/KDH-06200				
180	TD-060/TDP-060	WDB-48200	WSR-48200	KDHT/KDH-06200				
190	TD-060/TDP-060	WDB-48200	WSR-48200	-				

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.