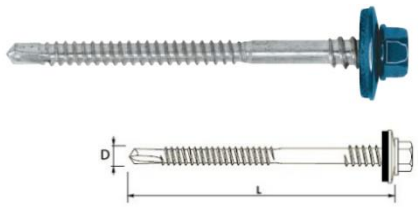
DRILLNOX DF4

SELF-DRILLING SCREWS WITH A WASHER FOR SANDWICH PANELS FIXING



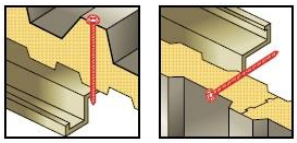
PRODUCT DESCRIPTION

Self-drilling, self-tapping screws (double thread) made of stainless steel, fine thread and hex head, with maximum drilling capacity 4mm, with integrated stainless steel washer with vulcanized EPDM.

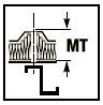
APPLICATION

Designed for mounting sandwich panels to cold rolled steel structures.

Suitable for use in environments with corrosivity categories C1, C2, C3, C4 and C5 according to PN-EN ISO 12944-2: 2001.



LENGTH OF SCREWS

Fastener type		Dimensions D x L [mm]	Maksymalna zdolność wiercenia	Grubość mocowanej płyty warstwowej 	
			DC	MTmin	MTmax
DRILLNOX DF4	S19	5,5/6,3 x 70	4,00	25	49
DRILLNOX DF4	S19	5,5/6,3 x 85	4,00	40	64
DRILLNOX DF4	S19	5,5/6,3 x 110	4,00	65	89
DRILLNOX DF4	S19	5,5/6,3 x 125	4,00	50	104
DRILLNOX DF4	S19	5,5/6,3 x 145	4,00	70	124
DRILLNOX DF4	S19	5,5/6,3 x 175	4,00	100	154
DRILLNOX DF4	S19	5,5/6,3 x 195	4,00	120	174
DRILLNOX DF4	S19	5,5/6,3 x 215	4,00	140	194
DRILLNOX DF4	S19	5,5/6,3 x 235	4,00	160	214
DRILLNOX DF4	S19	5,5/6,3 x 255	4,00	180	234
DRILLNOX DF4	S19	5,5/6,3 x 275	4,00	200	254
DRILLNOX DF4	S19	5,5/6,3 x 295	4,00	220	274

The working length of the fastener is calculated from the maximum thickness of the DC substrate.

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EUROPEAN TECHNICAL ASSESSMENT ETA-13/0180

CHARACTERISTIC CAPACITIES OF SHEAR ATTACHMENTS AND PULL-OUT FROM STEEL SUBSTRATE, DISPLACEMENT OF THE SCREW HEAD DUE TO HEAT EXPANSION

Element II: t_{II} w [mm]			1,50	2,00	2,50	3,00	4,00
Element I: $t_{n,1}$ lub $t_{n,2w}$ [mm]	SHEAR $V_{R,k}$ w [kN]	0,50	0,95	0,95	0,95	0,95	0,95
		0,55	1,16	1,17	1,17	1,17	1,17
		0,63	1,41	1,43	1,43	1,43	1,43
		0,75	1,83	1,88	1,88	1,88	1,88
		0,88	2,27	2,50	2,50	2,59	2,76
		1,00	2,67	3,08	3,08	3,24	3,57
	PULL-OUT $N_{R.k}$ w [kN]	0,50	1,51	1,51	1,51	1,51	1,51
		0,55	1,73	1,92	1,92	1,92	1,92
		0,63	1,73	2,40	2,40	2,40	2,40
		0,75	1,73	2,46	3,22	3,22	3,22
		0,88	1,73	2,46	3,40	3,72	3,72
		1,00	1,73	2,46	3,40	4,19	4,19
		$N_{R.k,II}$	1,73	2,46	3,40	4,19	4,19
Max. head displacement u* depending on the sandwich panel thickness in [mm]		40	12	10,0	8,5	7,0	5,0
		50	15,0	12,5	11,0	9,5	7,0
		60	18,0	15,0	13,5	11,5	8,5
		70	21,0	17,5	16,0	14,0	10,5
		80	24,0	20,0	18,0	16,0	12,0
		100	24,0	20,0	18,0	16,0	12,0
		120	24,0	20,0	18,0	16,0	12,0
		≥140	24,0	20,0	18,0	16,0	12,0

Element I - sheet steel of S280GD grade; S320GD; S350GD according to EN 10346.
Element II - steel sheet steel of grade S235 according to EN 10025-1 or S280GD; S320GD; S350GD according to EN 10346.
In order to determine the design load, the characteristic load factor must be divided by the safety factor ym = 1.33.

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OTHER FEATURES

BASE MATERIAL:	*COLD-ROLLED STEEL PROFILE*
SIZE OF HEX HEAD:	*8 mm*
MINIMUM THICKNESS OF STEEL BASE:	*1,5 mm*
MAXIMUM DRILLING CAPACITY:	*4,0 mm*
CORROSIVITY CATEGORY:	*C1-C5*
PAINTING POSSIBILITY:	*TAK*
THICKNESS OF POLYESTER PAINT:	*50 µm*
TIGHTENING TORQUE:	*5 Nm*
RECOMMENDED SPEED OF THE TOOL WITHOUT LOAD:	*1200 obr/min*
WASHER DIAMETER (STAINLESS STEEL Z19):	*19 mm*

ETA DWU/DoP

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