

MARCOTHERM THERMAX

Code TRXxxxSET2



DESCRIPTION

Thermally insulated fixing system for spaced loads.
MARCOTHERM THERMAX is ideal for applications on façades already outfitted with an external thermal insulation composite system.

APPLICATION

MARCOTHERM THERMAX is a product that is designed for the spaced installation of loads in external thermal insulation composite systems with an insulation thickness from 60 to 170 mm.

MARCOTHERM THERMAX is composed of an insulating cone made of fibreglass reinforced high

performance nylon which prevents thermal bridges from forming.

CONDITIONS FOR USE

When applying, the air and surface temperatures must not be below +5°C.

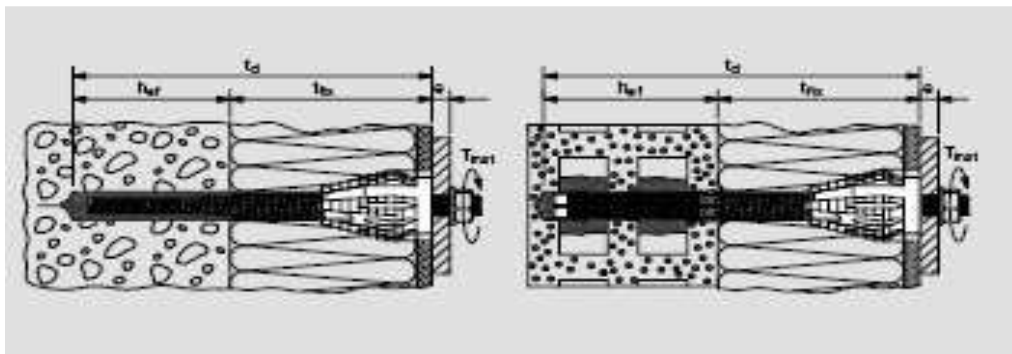
STORAGE

Maximum storage temperature: +30 °C

Minimum storage temperature: +5 °C

Keep in a dry place away from sources of moisture.

TECHICAL INFORMATION



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San Marco code	THERMAX type	Threaded rod	Material	Actual length	Thickness of the fixed material e	Min. anchoring depth h_{ef}	Hole diameter d_e	Hole depth $t_d=t_n+h_{ef}+10\text{mm}$	Mesh fixing screw	Tightening torque T_{net} Nm
TRX 110SET2	M12-12/110	M 12	Concrete Solid brick	60-110 mm	≤ 16 mm	130 mm	14 mm	$t_n+130\text{mm}+10\text{mm}$	-	10
TRX 110SET2	M12-12/110	M 12	Hollow brick	60-110 mm	≤ 16 mm	130 mm	16 mm	$t_n+130\text{mm}+10\text{mm}$	16x130 mm	10
TRX 170SET2	M16-12/110	M 16	Concrete Solid brick	60-170 mm	≤ 16 mm	130 mm	18 mm	$t_n+130\text{mm}+10\text{mm}$	-	10
TRX 170SET2	M12-12/170	M 16	Hollow brick	60-170 mm	≤ 16 mm	200 mm	20 mm	$t_n+200\text{mm}+10\text{mm}$	20x200 mm	10

Recommended cutting loads in kN at the distance T_{fix}									
Thickness of the non load bearing insulating layer (T_{fix}) in mm	60	80	100	110	120	140	160	170	
MTH THERMAX M12	1.14	1.06	0.75	0.54	-	-	-	-	
MTH THERMAX M16	1.14	1.14	1.14	1.03	0.8	0.46	0.33	0.33	

Recommended tensile strengths and component dimensions									
Single fixing									
	Solid brick		Solid cement block		Vertical hollow brick (not perforated with rotary percussion drill)		Lightweight concrete	Uncracked concrete C20/25 (B25) fixing depth $h_{ef}=110\text{mm}$	
	M12	M16	M12	M16	M12	M16	M12	M12	M16
Recommended loads (kN)	2.0	2.5	2.0	2.5	1.2	1.6	1.3	5.3	5.3
Thickness of the support material \geq (cm)	24	24	24	24	24	24	20	24	24
Distance from the edge \geq (cm)	25	25	25	25	20	20	20	6.5	6.5
Distance between fixing elements \geq (cm)	15	20	15	20	15	20	20	6.5	6.5
Maximum load distributed over the wall (kN)	2.5	2.5	2.5	2.5	2.5	2.5	2.5	-	-
MTH THERMAX M12-12/110 with anchoring depth of 130 mm MTH THERMAX M16-12/170 with anchoring depth of 200 mm Includes maximum plaster coat thickness of 20 mm									

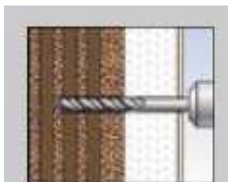
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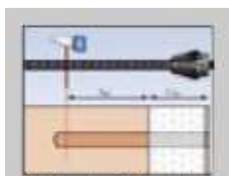
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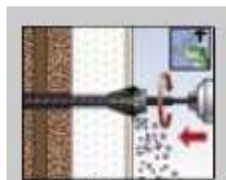
MOUNTING



Step 1: make the hole



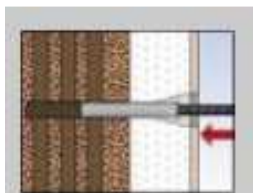
Step 2: cut the threaded rod to the desired length



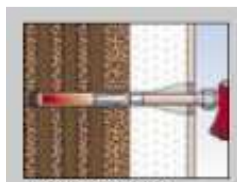
Step 3: install MTH THERMAX with a drill fitted with a hexagonal insert



Step 4: clean the hole



Step 5: insert the fixing screw



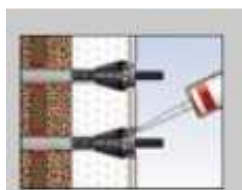
Step 6: inject the resin



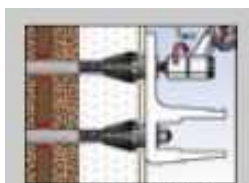
Step 7: manually install MTH THERMAX by turning



Step 8: adjust the depth of the MTH THERMAX as needed



Step 9: fill the circular space with special sealer



Step 10: tighten the object to be fixed

Fischer code	San Marco product code	Pcs. per package
Thermax M12 -12/110	TRX110SET2	2
Thermax M16 – 12/170	TRX170SET2	2

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