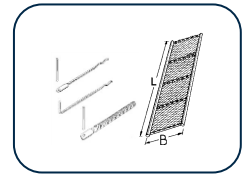


PLAKA - STONEFIX

Wind anchors

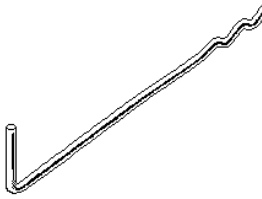
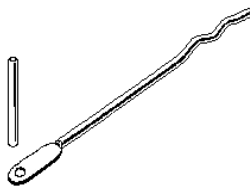
REF 02.02.02 - Version V01 - 10/08/2020



Description

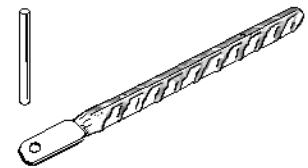
The STONEFIX gamma includes three types of anchorage systems:

STO71-72-73-74-75



STO60-61-62-63-64-65

STOB080-81-82-83-84



The anchors are manufactured from:

- 5 mm in diameter round rod in stainless steel comprising:
 - STO6x: the end is bent with a 90° angle
 - STO7x: the flattened end is predrilled to fit the $\phi 5 \times 60$ mm dowel

or

- 8 mm in diameter round deformed reinforcement bar in stainless steel
 - STOB08x: the flattened end is predrilled to fit the $\phi 5 \times 60$ mm dowel

The $\phi 5 \times 60$ pin is inserted into a pre-drilled hole at the narrow side of the stone. This dowel has a bulge, in order to prevent it from falling through the hole of the anchor. A PVC sleeve must be fitted in the holes of the underlying stones in order to (1) avoid sideways displacements of the stone and (2) to not hinder the expansion of the stone.

The waved ends of STO60 to STO65 and STO71 to STO75 and the corrugated rod of STOB080 to STOB084 allow the use of resin ANKROCHIM EPO 9030 for anchorage to the load bearing structure.

Application fields

The STONEFIX wind anchors are intended to fasten natural stone claddings. The anchors can only bear horizontal forces. These loads are mainly introduced by:

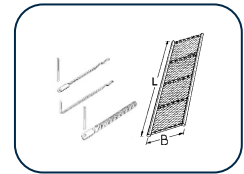
- the wind effect
- the tilting of stone claddings

STO6x allows the anchorage of one stone solely whereas STO7x and STOB08x allow the anchorage of 2 stones.



PLAKA - STONEFIX



Wind anchors

REF 02.02.02 - Version V01 - 10/08/2020

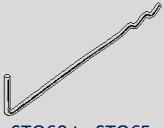
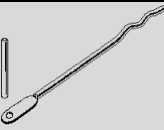
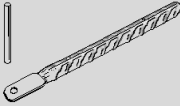


Characteristics

Mechanical characteristics (according EN 10204 3.1)						
Drawing	Dimension and quality	Yield strength R _p 0.2%	R _m /R _{p0,2}	Elongation at break	A5	Bend test
 STO71 to STO75 + STO60 to STO65	φ5mm drawn wire in stainless steel grade 304 (1.4301 according EN 10088-1)	≥ 520 N/mm ²	≥ 1,10	≥ 5,0%	≥ 15,0%	OK
 STOB080 to STOB085	φ8mm round corrugated rod in stainless steel grade 304 (1.4301 according EN 10088-1) or X2CrNiN23-4 (1.4362)	≥ 450 N/mm ² en ≤ 520 N/mm ²	-	-	-	-

Chemical characteristics (according EN 10204 3.1)									
Drawing	C	P	S	Si	Mn	Cr	Ni	N	Cu
 STO71 to STO75 STO60 to STO65	≤ 0,030%	≤ 0,045%	≤ 0,030%	≤ 1,00%	≤ 2,00%	17,50- 19,50%	8,00- 10,50%	≤ 0,11%	-
 STOB080 to STOB085	≤ 0,040%	≤ 0,045%	≤ 0,030%	≤ 1,00%	≤ 2,00%	17,00- 19,00%	8,50- 10,50%	≤ 0,11%	3,00- 4,00%

Dimensions

Dimensions				
Drawing	φ x L (mm)	# pieces/Box	Kg/100	Code
 STO60 to STO65	φ5 x 120mm	1	1,50	STO60
	φ5 x 150mm	1	1,80	STO61
	φ5 x 180mm	1	2,15	STO62
	φ5 x 210mm	1	2,45	STO63
	φ5 x 250mm	1	2,85	STO64
	φ5 x 300mm	1	3,35	STO65
 STO71 to STO75	φ5 x 150mm	1	1,65	STO71
	φ5 x 180mm	1	1,95	STO72
	φ5 x 210mm	1	2,25	STO73
	φ5 x 250mm	1	2,65	STO74
	φ5 x 300mm	1	3,15	STO75
 STOB080 to STOB084	φ8 x 120mm	1	5,74	STOB080
	φ8 x 150mm	1	6,93	STOB081
	φ8 x 200mm	1	8,90	STOB082
	φ8 x 250mm	1	10,88	STOB083
	φ8 x 300mm	1	12,85	STOB084

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