



PRODOTTI E TECNOLOGIE PER COMBATTERE L'UMIDITÀ

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SCHEDA TECNICA

BARRE ELICOIDALI

Per consolidamento muri

CARATTERISTICHE

Le barre elicoidali, impiegate nella riparazione di lesioni o crepe nella muratura, sono prodotte in acciaio inox AISI 316 e presentano un'altissima resistenza meccanica. Le barre elicoidali hanno la capacità di ricucire crepe o lesioni e quindi di ripristinare l'integrità totale della struttura.

DESCRIZIONE

L'intervento di ripristino e restauro con le barre elicoidali, in sostanza, prevede la muratura delle stesse all'interno del muro lesionato. Si applicano a secco per il rinforzo di elementi strutturali in calcestruzzo, muratura (pietra, mattoni, tufo), legno, etc., quasi sempre evitando limitazioni nell'uso dell'immobile o della struttura. Si tratta di un sistema pratico, veloce ma anche vantaggioso dal punto di vista economico per risanare crepe, stabilizzare pareti, ripristinare archi e architravi, ricongiungere parti staccate.

MODALITÀ APPLICATIVE

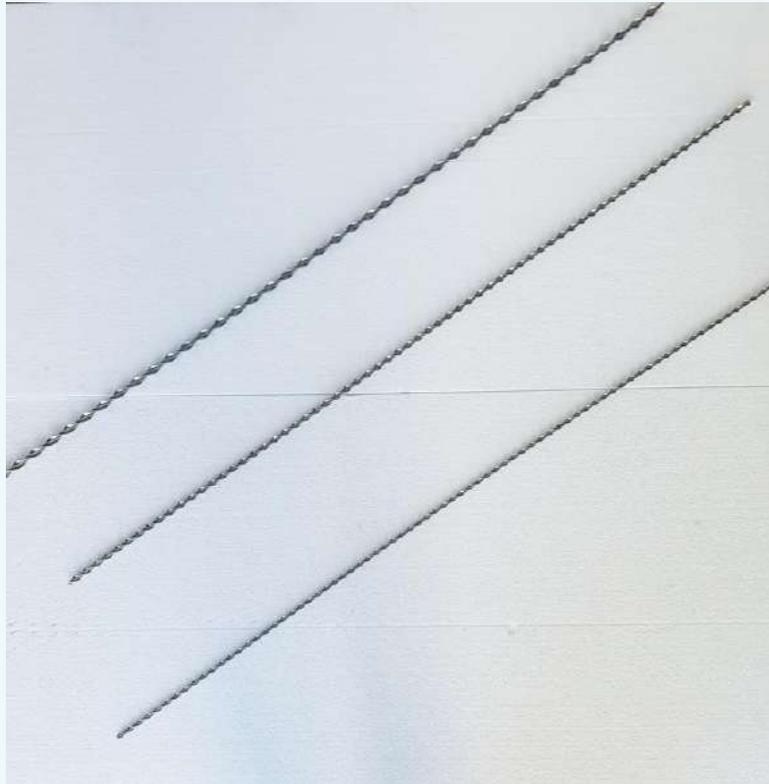
- Rinforzo di carotaggi: riempire il foro di malta idonea ed inserire la barra annegandola nel legante, lasciando fuori dal foro un piccolo tratto della barra idoneo ad essere collegato a rete di rinforzo della muratura.
- Rinforzo lesioni: creare una traccia di 4 cm prof. 5 cm trasversale alla crepa, inserire la barra e riempire la traccia con apposita malta. Ovviamente ci vorrà un numero di barre proporzionali alla lunghezza della crepa.
- Il concetto di lavorazione può essere adattato a varie situazione, cortine, archi etc.

DIAMETRI

CONFEZIONE

Barra elicoidale da 4,5 mm	10 barre da 1 ml	Rotolo da 10 ml
Barra elicoidale da 6 mm	10 barre da 1 ml	Rotolo da 10 ml
Barra elicoidale da 8 mm	10 barre da 1 ml	Rotolo da 10 ml
Barra elicoidale da 10 mm	10 barre da 1 ml	Rotolo da 10 ml
Barra elicoidale da 12 mm	10 barre da 1 ml	Non disponibile



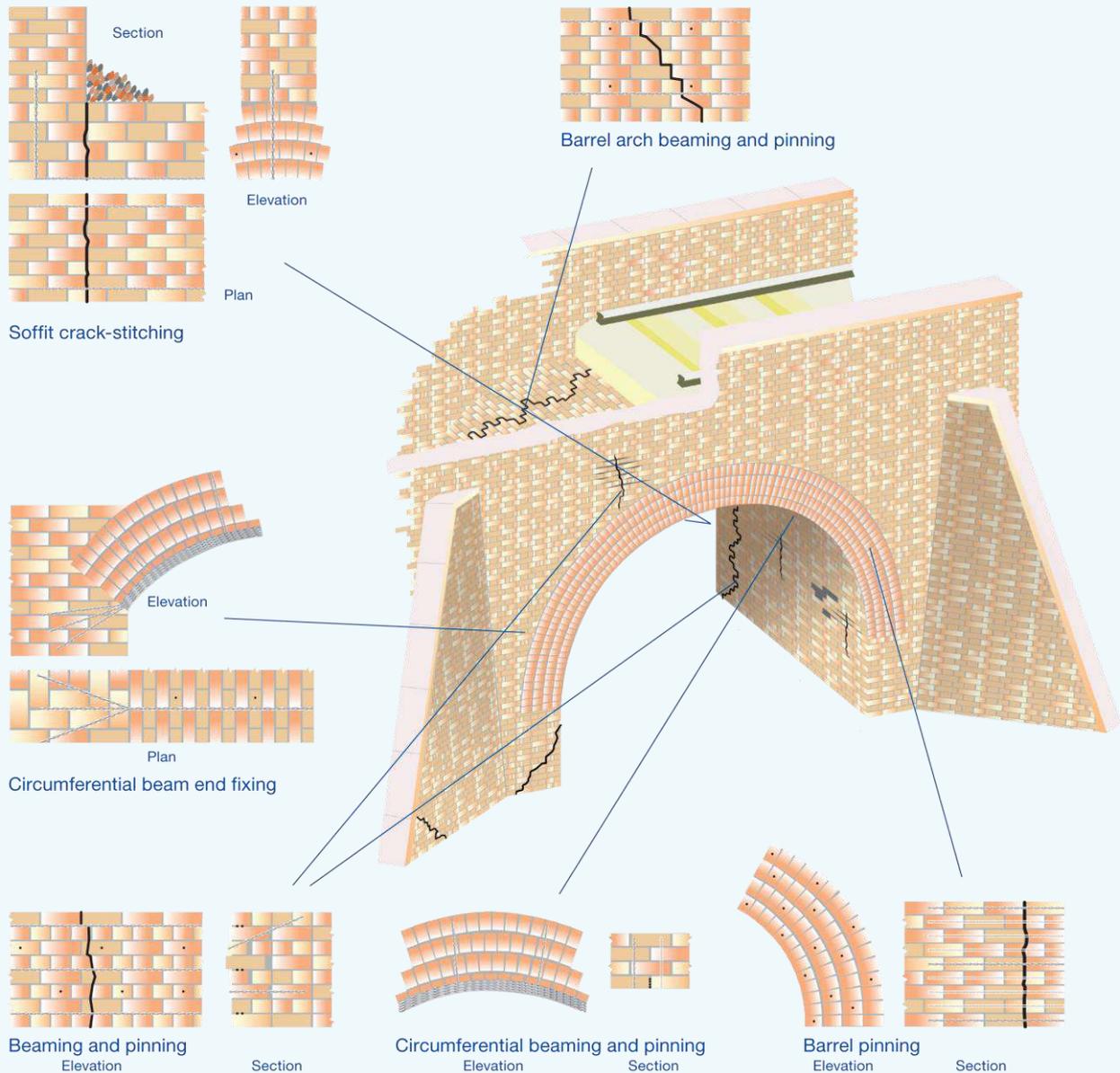


STRUCTURAL REPAIRS

The repair of major structural faults may well involve complex engineering repair schemes to restore the integrity and improve the performance of the structure. Using individually devised schemes of SureBeam and Grout Ties in the right combinations will overcome nearly all problems.

By understanding the structural features of a specific bridge and designing individual repair strategies for a given situation, the

SureTwist system components are able to secure the masonry and stone, stitch cracks, form masonry beams and redistribute the structural loads without introducing additional stresses. By using a larger number of smaller components which work together with the masonry, the bridge, tunnel or wall is repaired and visibly uneffected while being able to continue its normal structural movement.



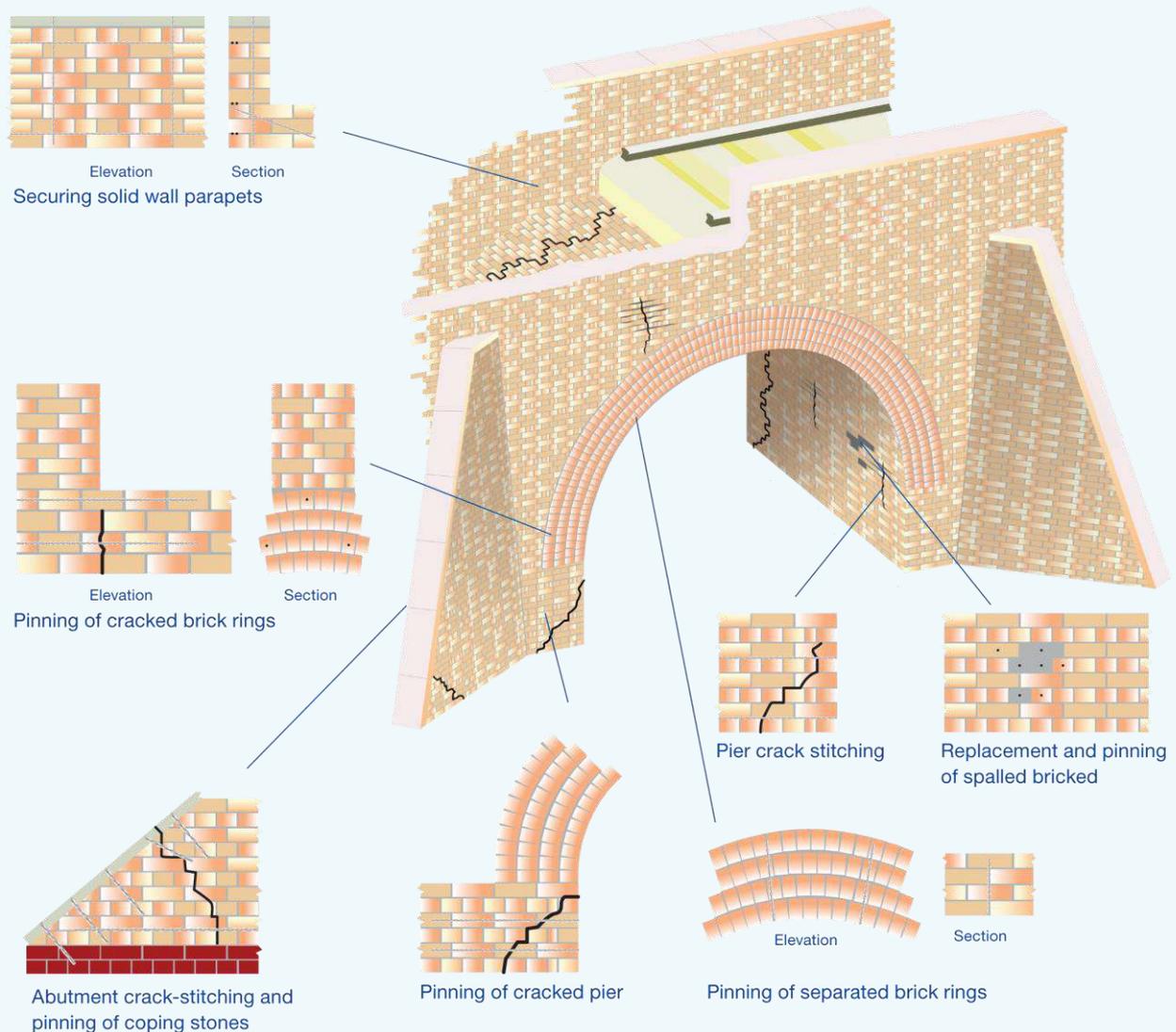
MAINTENANCE REPAIRS

For relatively simple repairs, such as re-pinning loose brickwork, crack-stitching, securing coping stones and repairing parapet walls in brick, block or stone. The range SureTwist system components can be used to provide rapid solutions in all types of masonry.

Mechanical remedial Wall ties and Grout Ties are used to secure loose brickwork: Mechanical remedial wall ties are rapidly installed by being power driven into the masonry via

a small pilot hole and require no grouts resins or mechanical expansion. Grout Ties are a grouted remedial tie, installed by pumping the helical tie and grout from a long nozzle into pre-drilled clearance holes.

Crack-stitching involves lengths of SureTwist Bar being bonded across the crack into narrow chased out slots with mortar beds being used where possible. These hold the masonry together while spreading the loads to prevent future cracking.





CERTIFICAZIONI BARRE ELICOIDALI - Dry Wall System

Year	Country	Approval	Approval Nr.	Approved by	Tested by	Products / Tests	Norms
1998	United Kingdom	Test report	98	BU	Bath University	Bars - Brutt Bar 6, 8 and 10 mm	
1998	Czech Republic	Czech Approval	07 2090	TZUS	TZUS Ostrava	Bars - Brutt Bar 6 and 10 mm	CSN EN 10002-1
1998	Czech Republic	Czech Approval	07-C-342/1998	TZUS	TZUS Ostrava	Grout Brutt Bond - Technical properties and adhesive strength	CSN 722440
1999	United States	Test report	October 28,1999	PSU	Pennsylvania state University	Tensile and Compressive Load - Displacement, Characteristics of Ties	ASTM standard and CSA
1999	Canada	Test report	dic-99	UW	University of Waterloo	Structural Performance of Ties, Dry set - concrete block,brick, mortar	ASTM standard and CSA
1999	Hungary	Hungary Approval	A-1054/1998	EMI	EMI Budapest	Bars, Grout, Anchorage length	
1999	Slovakia	Test report	004/99/0425-6/A9.6-A2.4	TSUS	TSUS Bratislava	Bars, Grout	
2000	Czech Republic	Czech Approval	07-6756, 07-8188	TZUS	TZUS Ostrava	Bars, Grout - Saver and Saver Powder	CSN EN 10002-1
2000	Hungary	Test report	2000.05.12	SAMI	SAMI	Geo Grout	
2000	Poland	Test report	NK-523/A/00	ITB	ITB Warszawa	Bars, Grout - Saver, Saver Powder - anchorage length	PN EN 10088-1,2,3
2001	Germany	Test report	0790-CPR-SN.072.01.M-11	MFPA	MFPA Leipzig	Grout - Saver Powder S, HS, SR	DIN 1048-2, 52104
2001	Czech Republic	Test report	07-12224	TZUS	TZUS Ostrava	Saver, Saver Powder - Anchorage length, concrete, brick	CSN 731328
2001	Slovakia	Slovak Approval	A1.4/01/1238/1/C/C04	TSUS	TSUS Bratislava	Saver and Saver Powder -Anchorage length, brick masonry	STN 01 5200:2000
2001	Germany	Test report	M 01 0363	MPA	MPA Darmstadt	Bars - Saver 6, 8 and 10 mm - Technical properties	DIN EN 10002-1
2002	Poland	PL Approval	AT-15-5695/2002	ITB	ITB Warszawa	Saver and Saver Powder, anch. length- Wood, Brick, concrete	PN EN 10088-1,2,3
2003	Czech Republic	Czech Approval	040-017 034	TZUS	TZUS Praha	Grout Saver Powder - Technical properties and adhesive strength	CSN 722430-4
2004	Germany	Test report	199.02.03	TU	TU Darmstadt	Saver , Saver Powder - Anchorage length Lime brick, Concrete, Aircrete	
2004	Czech Republic	Czech Approval	040-018 779	TZUS	TZUS Praha - Teplice	Bars - Saver 6, 8 and 10 mm - Technical properties	CSN EN 10002-1
2006	United Kingdom				ICL London	Bigtwist Testing into timber	
2008	United Kingdom				Lucideon Staffs	Bigtwist Testing into Aircrete	
2009	Poland	Tech.Approval in acc. to EN	LOK-1118/A/08	ITB	ITB Katowice	Brutt Saver - Bars, Anchors - Technical properties	EN 10002-1:2004, 846-7:2006
2010	Germany	German Technical Approval	Z-21.3-1942	DiBt	IFBT Leipzig	Brutt Saver - Bars, Grout, Anchors, Anchorage length, cavity wall	DIN EN 10002-1, 10088-3
2011	United Kingdom	Test report	SPO-RT-12-04-CPS	ICL	ICL London	3D Tensile testing in both brick & concrete	
2012	United Kingdom				ICL London	BigTwist testing & profile gauging	BS EN 846-6:2012
2015	Belarus	Test report		TI MINSK	TI MINSK	Masonry reinforcing - Suretwist, Suregrout - Load and deflection	BS EN 846-6:2012
2015	United Kingdom	Tech.Approval in acc. to EN	15639/Ref 1-6	Lucideon	Lucideon Staffs	Suretwin Anchors 4.5 mm / cavity wall	EN ISO 6892-1:2009
2015	United Kingdom	Test report	Hex TC 8,9 - C1-C9 test	ICL	ICL London	Suretwin TC anchors TC8 and TC9 mm - Compression test	
2015	United Kingdom	Test report	TC 7,8,9 -T1-6 test	ICL	ICL London	Suretwin TC bars - technical properties	EN ISO 6892-1:2009
2016	Belarus	BY,RUS,KAZ Approval	N BY/112 02.1.0.0002	SERTIS	SERTIS BREST	Single component Grout - Suregrout Si - properties	EN 845-1, EN 846-1,7
2016	United Kingdom	Test report	Hex M(6,8,10)-T1-6 test V02	ICL	ICL London	Suretwin Bars 6,8 and 10 mm - technical properties	EN 998-2:2010
2016	United Kingdom	Test report	Hex-M(6,8)-CT1-3 test	ICL	ICL London	Anchorage length, concrete, with Si Grout	EN 1504-3:2005
2016	United Kingdom	Test report		ICL	ICL London	Anchorage length, brick, with Si Grout	EN 1504-3:2005
2016	United Kingdom	Test report	JWH150216A	Parex	Parex Laboratory	Single component Grout - Suregrout Si - properties	BS 6576:2005
2016	United Kingdom	ETA	16/5302	BBA	BBA	Suretech	
2016	United Kingdom	Test report	3D-M8-BCST1-6test-V01	ICL	ICL London	3D Anchor - shear - anchorage length, brick	
2016	United Kingdom	Test report	3D-M8-CCST1-6test-V01	ICL	ICL London	3D Anchor - shear - anchorage length, concrete	
2016	United Kingdom	Test report	3D-M8-T1-6test	ICL	ICL London	3D Anchor - tension	

