CTP is now part of the PROSOCO family



PROSOCO

Dimensional Stone and Precast Panel Re-Anchoring Systems

CTP STONE-GRIP TIE

Strong and secure solutions to re-anchor stone/precast panels and thin masonry veneers!



Re-Attach Existing Stone and Precast Panel Veneers with Strength

- Mechanical fixes for long term anchorage and monitoring
- No grout/epoxy resins are required
- More effective and predictable than helical style anchors
- Connections that function with grip and strength

Reattach Existing Stone and Precast Panels Without Removal or Resetting

Granite Facade to Solid Back-Up



Construction Tie Products, Inc. is committed to supplying the highest quality masonry tie and construction systems in North America and satisfying all stringent national codes and standards for today's building structures. CTP, Inc. promises to be a reliable product source along with on-time business integrity for all demanding builders. Call anytime for technical assistance or recommendations.

PRODUCTS. IN

CONSTRUCTION TIE

CTP Stone-Grip Tie for Reattaching Existing Stone and Precast Panel Veneers Without Removal or Resetting

Product Line Description

Stone and precast panel veneers may become unstable and possibly life threatening in the event of a connection failure. This failure can be the result of inadequate ties when built; existing material or anchor quality issues; the rusting or oxidation of existing anchors; or the delaminating of composite panels. A re-anchoring solution is possible using retro-fit anchors that would preclude the removal and resetting of the panel. The functional and performance characteristics of various retro-fit anchors must be capable of fulfilling typical anchorage expectations. The **CTP Stone-Grip Tie** product line offers those solutions.

Regardless of the panel type on the building envelope, it is subjected to two types of forces: Dead Loads – induced by gravity, and Live Loads – resulting commonly from wind and other external forces. Retro-fit anchors may be required to "Support" dead loads and/or "Resist" live loads. Their selection depends on assessing the qualitative and quantitative characteristics they provide.

CTP Stone-Grip Ties are the solution for re-anchoring unstable dimensional stone and precast panel facades. The anchors provide a positive means to re-anchor to the parent structure. The anchors are manufactured of corrosion resistant materials for ultimate long term performance and dependability. The functional and performance characteristics of the various ties are capable of fulfilling typical panel anchoring expectations for "live" or "dead" loads. The anchors have been engineered to re-attach the veneer panel to back-up structures constructed of either concrete, brick, masonry, structural steel, and wood/steel stud materials without the costly removal and resetting of the panels. The retro-fit connections can be concealed with like material Dutchmen or plugs, or it can be aesthetically exposed to create a new look for the building. The **CTP Stone-Grip Tie** product line provides cost effective solutions to removing and replacing existing stone and precast panel veneers.

Basic Applications

Use where there is a need to re-attach existing stone and precast veneers that require additional restraint, or support, to resist live and dead loads. **CTP Stone-Grip Ties** can accommodate bilateral live load resistance, uni-directional forces, support loading, and combinations of all types. The back up material will determine the style of anchorage required.

Performance

Each construction site is unique and the appropriate use of this product is the responsibility of the engineers, architects, and other professionals who are familiar with the specific requirements of the project. The data reflects results of lab, field and in-house tests and are provided as a guideline for the designer. Site testing is encouraged for verification of load capacity. Anchor components are manufactured of austenitic stainless steel and corrosion resistant brass materials. The anchors are capable of re-attaching stone panels for the following typical applications:



The CTP Grip-Max Type II Connection



CONSTRUCTION TIE PRODUCTS, INC

Product Series Overview of CTP Stone-Grip Ties

The **Stone-Grip Tie** anchoring systems by CTP are a mechanical anchoring method to re-attach existing stone and precast cladding veneers to various back-up materials. Cladding materials can be as thin as 20mm and be manufactured from:

Granite · Marble · Travertine · Limestone · Sandstone · Precast Concrete · Terra-Cotta · Stucco



Product Series Comparison of CTP Stone-Grip Ties

		Ultimate Pullout Capacity (lb) Per CTP Anchor												
		CTP ANCHOR SERIES												
Back-Up Material			RESTRAIN STONE PANEL TO SOLID BACK-UP	RESTRAIN STONE PANEL TO SOLID AND HOLLOW	RESTRAIN STONE PANEL TO STEEL BACK-UP	RESTRAIN STONE PANEL TO STUD BACK-UP	Travertine Tie to Restrain Stone Panel to Solid Back-Up		TORQUE ACTIVATED FOR STONE PANEL TO SOLID BACK-UP WITH OR W/OUT CAVITY		Hammer Set (HS) to Stabilize Stone Panel to Concrete Back-Up			
			60	_ 9	09	C D	Façade Pilot Hole		Anchor Diameter		Anchor Diameter			
			СТР 6000 Түре I, 2, 5, 2-	CTP 6100 TYPE I, Z, 5, 2-	СТР 620(Түре I, Z, & 2-	CTP 6300 TYPE I, Z, 5, 2-	CTP 6400 U (3/8")	CTP 6400 LI (I/2")	CTP 6500 (I/2")	CTP 6600 (3/8")	CTP 6800 (I/4")	CTP 6800 (3/8")	CTP 6800 (I/2")	CTP 6800 (3/4")
Hollow Light Weight CMU				1000										
Hollow Normal Weight CMU				1100										
Grouted CMU (2000 psi grat)			2000	1300			1500	2100	2000	1300	1000	1100	2000	4000
Concrete (3500 psi)			2000	1100			1500	2000	2000	1500	2000	3200	7100	7500
Solid Brick			1500	1200			1200	1500	1500	1200				
Clay Tile				700										
Wood Kiln Dried 2x4 Stud						840								
16-Gauge Metal Stud						835								
Steel				2000	2000									
Ultimate Bending	Cavity with 3 cm Stone	1"							680	280		280	680	2300
		2"							340	140		140	340	1100
		3"							230	100		100	230	760
		4"							170	70		70	170	600
		5"							140	60		60	140	500
		6"							110	50		50	110	380
		7"							100	40		40	100	325

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Dimensional Stone and Precast Panel Re-Anchoring Systems

Product Series of CTP Stone-Grip Tie



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CTP Stone-Grip Tie Planning Guide

CTP STONE-GRIP ACCESSORIES, SET-TING TOOLS, AND OPTIONS 1. CTP Stone-Grip heads can be customized to suit a particular architectural finish appearance, size or shape. Contact Customer Service for assistance. 2. CTP Stone-Grip heads can be powder coated for color matching and surface mounting. Contact Customer Service for assistance. 3. Diamond tipped core drills are available upon request for granite drilling. Contact Customer Service for assistance. 4. Upon request, dual diameter diamond tipped core drills are available. Contact Customer Service for assistance. 5. Carbide tipped counter-bore drills are available for drilling into marble, travertine, limestone, sandstone, concrete for hand held drills. EPDM washers can be made to different thickness (.090 is typical) and hardness (60 ± Durometer typical). CTP STONE-GRIP TIE SETTING TOOLS

Warranty

Seller makes no warranty of any kind, expressed or implied, except that the goods sold under this agreement shall be of the standard quality of the seller, and buyer assumes all risk and liability resulting from the use of the goods, whether used singly or in combination with other goods. Seller neither assumes nor authorizes any person to assume for seller any other liability in conjunction with the sele or use of the goods sold, and there is no oral agreement or warranty collateral to or affecting this transaction.

Warning

The information contained in this publication does not constitute any professional opinion or judgement and should not be used as a substitute for competent professional determinations. Each construction project is unique and the appropriate use of this product is the responsibility of the engineers, architects, and other professionals who are familiar with the specific requirements of the project.

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