CTP is now part of the PROSOCO family



Secure Existing Brick and Stone Veneers Safely, Efficiently Without Exposed Hardware

CTP GRIP-TIE

We help you get a grip on your façade problems quick and easy!



Usage Shown Here Re-Anchoring Brick Façade to Typical Wood or Metal Stud Back-Up



Re-Attach Existing Brick Veneers with Certainty and Security

- Add high strength mechanical anchors to an existing brick facade to fortify and stabilize against external forces
- No exposed hardware
- Delivers 100% performance expectations due to its positive torque gripping activation
- No chemicals or disturbing hammering activity
- An excellent solution to re-anchor a masonry or stone façade to metal or wood stud, structural steel, tile, block, concrete, and brick

Mechanical Repair Anchors for Stabilizing Veneers



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.

CTP Grip-Tie Mechanical Repair Anchors for Stabilizing Existing Façades

Product Line Description

Typically, masonry façades are intended to resist wind loads. In lieu of tear down or replacement, an existing masonry or terra cotta façade can be fortified by the addition of mechanical ties or anchors. The **CTP Grip-Tie** anchors provide additional façade stability which may be needed to fulfill a myriad of requirements. The **CTP Grip-Tie** selection process evolves by evaluating the type of anchors one can use to satisfy the repair (compatibility) and strengthening criteria. Also, one cannot ignore the means and methods of installation which can also influence the remedial anchor choice.

Post installed **CTP Grip-Tie** repair anchors are available to accomplish the task. When dealing with a repair situation, the as built material quality and current building conditions are often unknown. It is therefore not uncommon that installation criteria and performance qualification be obtained via field tests in order to confirm design assumptions. The **CTP Grip-Tie** mechanical repair anchors consist of a dual expansion anchor for a mechanical connection that grips the back-up and veneer which is then bridged with an anchor rod. The **CTP Grip-Tie** anchor creates formidable gripping strength to the base material to which it is attached. The anchor does not draw walls together, thereby eliminating additional tension stresses between wythes of material. The back-up material can be concrete, metal stud, wood stud, CMU (hollow or grouted), structural steel, or brick. The veneer can be brick, stone, or precast. The **CTP Grip-Tie** anchor assembly is manufactured from corrosion resistant materials which will contribute to the façade's long term durability and design life. The **CTP Grip-Tie** anchorage system has been designed to accommodate easy installation via hand tools or power tools. Combining the strength, generous spacing, and affordable installation technique, the **CTP Grip-Tie** mechanical repair anchor product line is a value reward choice for façade re-anchoring.

CTP Grip-Tie Selection Guide

The following application descriptions will provide a quick CTP Grip-Tie Repair Anchor Guideline when determining the appropriate series tie for veneers greater than 3" thick:

- The solid back-up conditions refer to the CTP 5000 or CTP 5000R Series Anchors
- The hollow back-up conditions refer to the CTP 5100 Series Anchors
- · The structural steel back-up conditions refer to the CTP 5200 Series Anchors
- · The stud (wood or steel) back-up conditions refer to the CTP 5300 Series Anchors

Anchor Spacing

It is recommended to first check with local building codes for spacing condition requirements for proper masonry tie spacing. Typically, the **CTP Grip-Tie** is spaced at one tie per four square feet of veneer for masonry or concrete back-up conditions. For metal or wood stud back-up, a 16" horizontal by 24" vertical is common spacing. Consult with local design professionals to establish wind load criteria for all scenarios.

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.



www.CTPanchors.com Phone: (785) 830-7380 Fax: (219) 874-3626

The CTP Grip-Tie Advantage



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Mechanical Repair Anchors for Stabilizing Veneers

CTP Grip-Tie Tension Capacities With Various Back-Up Material

Back-Up Material									CTP Anchor Series					
Ultimate Tension Capacity (lbs)														
METAL STUD					woo	D			BACK-UP					
16 Gauge	18 Gau	} ige	2 x 4	4 x 4	1/2" Plywo	od	7/16" OSB	1" Sheathing						
835	50	0	900	1200	475	5	320	800	CTP 5300R SERIES OR STEEL WOOD					
835	50	0	900	1200	475	;	320	800	CTP 5300 SERIES OR WOOD					
LIGHT WEIGHT CMU	NORMAL WEIGHT CMU	CONCRETE	SOLID BRICK	CLAY TILE	STRUCTURAL STEEL	GROUTED CMU	SOFT BRICK	CINDER BLOCK	Typical CTP Grip-Tie Shaft Properties Ultimate Shaft Buckling Strength SHAFT LENGTH (in) CAPACITY (Ib) 51/2 1620 61/2 1425 91/2 1100 414 1/0 705 705 705 705 705					
	Ultii			nsion C	apacit	y (lbs)							
N/R	N/R	2000	1200	N/R	N/R	1200	800	N/R	3/8" Solid Material CTP 5000R Series					
N/R	N/R	2300	1500	N/R	N/R	1600	1300) N/R	The solid material of					
1000	1100	1500	1200	700	2000 ≥ 5/16"	1100	800	500	CTP SIOO SERIES 3/8"					
N/R	N/R	N/R	N/R	750	2000 ≤ 5/16"	N/R	N/R	N/R	3/8" TILE OR 7/16" DRILL DIAMETER FOR TILE OR 7/16" DRILL DIAMETER FOR STEEL					

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_ Mechanical Repair Anchors for Stabilizing Veneers

CTP Grip-Tie Tension/Compression Capacities With Various Veneers

					Veneer Material														
CTP Anchor Series						Ultimate Tension Capacity (lbs)													
			N	JOF JO	RTA INT	R		BR	ICK	(PRE	CAST	LIMES	TONE	GRA	NITE			
			S	oft Z	Ha	rd Z	Sc	oft Z	Ha	rd Z		z		z		z			
TENSION	VENEER SET BACK 3/8"~ 5/8"		TENSION	COMPRESSIO	TENSION	COMPRESSIO	TENSION	COMPRESSIO	TENSION	COMPRESSIO	TENSION	COMPRESSIO	TENSION	COMPRESSIO	TENSION	COMPRESSIO			
3/8" Hole Site		CTP 5300R Series	006	800	1600	800	1200	1500	1500	1500	1500	1500	1500	1500	1500	1200			
9/16" Hole Site		CTP 5300 Series			1600	1300	1500	1500	1700	1700	2000	1500	2000	1500	2000	1500			
3/8" Hole Site		CTP 5000R Series	006	800	1600	800	1200	1500	1500	1500	1500	1500	1500	1200	1500	1200			
1/2" Hole Site			006	800	1600	1300	1500	1500	1700	1700	2000	1500	2000	1200	2000	1200			
1/2" Hole Site		CTP 5100 Series	006	800	1600	1300	1500	1500	1700	1700	2000	1500	2000	1200	2000	1200			
1/2" Hole Site		CTP 5200 Series	006	800	1600	1300	1500	1500	1700	1700	2000	1500	2000	1200	2000	1200			

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Mechanical Repair Anchors for Stabilizing Veneers _

Product Series of CTP Grip-Tie



Product Series of CTP Grip-Tie



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CONSTRUCTION TIE PRODUCTS, INC

Mechanical Repair Anchors for Stabilizing Veneers _

Product Series of CTP Grip-Tie



CTP Grip-Tie Specification

PART 1 GENERAL

- 1.1 SECTION INCLUDES
 - A. Masonry repair systems
- 1.2 RELATED SECTIONS
 - A. Section 04900 Masonry Restoration and Cleaning: Coordination and installation requirements.
- 1.3 REFERENCES
 - A. ACI 530.1/ASCE 6/TMS Specifications for Masonry Structures
 - B. American Society for Testing and Materials (ASTM) B 16, Type 360 Brass
 - C. ASTM 580A, Type 304 S.S.
 - D. BIA TEK NOTE 46
- 1.4 SUBMITTALS
 - A. Submit under provisions of Section 01300
 - B. CTP Grip-Tie: manufacturers data sheets on each product to be used, including:
 - 1. Preparation instructions and recommendations.
 - 2. Storage and handling requirements and recommendations.
 - 3. Installation methods
- 1.5 DELIVERY, STORAGE AND HANDLING
 - A. Store products in manufacturer's unopened packaging until ready for installation.

PART 2 PRODUCTS_

- 2.1 MANUFACTURER
 - A. Acceptable Manufacturer: Construction Tie Products, Inc. (CTP, Inc.), Michigan City, IN, 46360-9390 USA. Tel: 219-878-1427 Fax: 219-874-3626
 - salesctp@comcast.net
- 2.2 PRODUCTS
 - A. Masonry Repair and Restoration Re-Anchoring Existing Veneers (Selection based on application):
 - 1. Application: Masonry Veneer to Solid Back-up.
 - a. 5000 Series CTP Grip-Tie Mechanical Repair Anchor
 - b. 5000R Series CTP Grip-Tie Mechanical Repair Anchor
 - 2. Application: Masonry Veneer to Hollow Back-up.
 - a. 5100 Series CTP Grip-Tie Mechanical Repair Anchor
 - Application: Masonry Veneer to Structural Steel Back-up.
 a. 5200 Series CTP Grip-Tie Mechanical Repair Anchor
 - 4. Application: Masonry Veneer to Timber/Steel Stud Back-up.
 - a. 5300 Series CTP Grip-Tie Mechanical Repair Anchor
 - b. 5300R Series CTP Grip-Tie Mechanical Repair Anchor

PART 3 EXECUTION

- 3.1 PREPARATION
 - A. Locate anchors in the area to be anchored per project drawings and details.
- 3.2 INSTALLATION
 - A. Select proper anchor length by field verification.
 - B. Drill proper hole size per anchor type and blow out drill fines.
 - C. Using appropriate setting tool and adapters, tighten back-up anchor to recommended torque range, then tighten facade portion to the recommended torque range.
 - D. Conceal anchor with specified grout or caulk.



CONSTRUCTION TIE PRODUCTS, INC.

Mechanical Repair Anchors for Stabilizing Veneers _

CTP Grip-Tie Planning Guide



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 sale 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.



CMS	-GT-	0719