PROSOCO Grip-Tie Specification (revised 10/15/2021)

1. GENERAL
   * + 1. SUMMARY
          1. Section Includes:

Masonry repair systems

* + - * 1. Related Requirements:

Section 040120.91 “Unit Masonry Restoration”

Section 040140.91 “Stone Restoration”

Section 042000 “Unit Masonry”

Section 042613 “Masonry Veneer”

* + - 1. References
         1. ASTM A580 – Standard Specification for Stainless Steel Wire
         2. ASTM B16/B16M – Standard Specification for Free-Cutting Brass Rod, Bar, and Shapes for Use in Screw Machines
         3. ASTM C1093 – Standard Practice for Accreditation of Testing Agencies for Masonry
         4. BIA Technical Note 46 – Maintenance of Brick Masonry
         5. TMS 402/602 – Building Code Requirement and Specification for Masonry Structures
      2. ALLOWANCES
         1. See Section 012100 "Allowances" for a description of allowances affecting items specified in this Section.
      3. DEFINITIONS
         1. Mechanical expansion anchor: A torque activate anchor with components that expand in an umbrella shape, compressing against the base material providing a positive connection.
         2. CMU(s): Concrete masonry unit(s).
      4. PREINSTALLATION MEETINGS
         1. Preinstallation Conference: Conduct conference at [**Project site**] <**Insert location**>.
      5. SUBMITTALS
         1. Submit under the provisions of Section 013300.
         2. Product Data: For each type of product.

Grip-Tie: Manufacturer’s data sheets on each product to be used, indicating the size, length, and material.

* + - 1. QUALITY ASSURANCE
         1. Qualifications:

Testing Agency: Qualified in accordance with ASTM C1093 for testing indicated.

Manufacturer: Provide design, engineering, and technical assistance for the selection, application, and installation of an appropriate anchoring system for the project

Installer: Knowledgeable contractor experienced in the proper use and installation of anchoring systems, including coordination with wall assembly components.

* + - 1. MOCKUPS
         1. Provide a mock-up for evaluation of application workmanship.

Finish areas designated by Architect.

Do not proceed with remaining work until workmanship is approved by Architect.

Approval of mockups does not constitute approval of deviations from the Contract Documents contained in mockups unless Architect specifically approves such deviations in writing.

Subject to compliance with requirements, approved mockups may become part of the completed Work if undisturbed at the time of Substantial Completion.

* + - 1. DELIVERY, STORAGE, AND HANDLING
         1. Store products in manufacturer’s unopened packaging until ready for installation.

1. PRODUCTS
   * + 1. SOURCE LIMITATIONS
          1. Mechanical expansion anchors from an acceptable manufacturer:

PROSOCO: 3741 Greenway Circle, Lawrence, KS 66046.

TEL: 1-800-255-4255

EMAIL: [customercare@prosoco.com](mailto:customercare@prosoco.com)

* + - * 1. Substitutions: Not permitted.
        2. Requests for substitutions will be considered in accordance with provisions of Section 012500.
      1. TIES AND ANCHORS
         1. Mechanical expansion anchors:

Application:

Solid concrete backup conditions

PROSOCO 5000 Series Grip-Tie Anchors

PROSOCO 5000R Series Grip-Tie Anchors

Hollow CMU backup conditions

PROSOCO 5100 Series Grip-Tie Anchors

Structural steel backup conditions

PROSOCO Stitch-Tie 5200 Series Grip-Tie Anchors

Stud (wood or steel) backup conditions

PROSOCO 5300 Series Grip-Tie Anchors

* + - * 1. Materials: Provide ties and anchors specified in this article that are made from materials that comply with the following unless otherwise indicated:

Stainless Steel Wire: ASTM A580/A580M, Type 304 or Type 316.

Brass: ASTM B16/16M, Type 360

1. EXECUTION
   * + 1. Preparation
          1. Locate anchors in the area to be anchored per project drawings and details.
       2. INSTALLATION, GENERAL
          1. Mechanical Expansion Anchor

Select proper anchor length by field verification.

Drill proper pilot hole size per the anchor type. See manufacturer’s product data for recommendations.

Blow out drill dust and debris from the pilot hole.

Using the appropriate setting tool or adapter, install the anchor into the pre-drilled hole

Using the appropriate setting tool or adapter, tighten the backup portion of the anchor to the recommended torque range.

Using the appropriate setting tool or adapter, tighten the facade portion of the anchor to the recommended torque range.

Conceal the anchor with the specified patching compound.

* + - 1. FIELD QUALITY CONTROL
         1. Site testing is encouraged for verification of mechanical expansion anchor load capacity. 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.

Testing Agency: [**Owner will engage**] [**Engage**] a qualified testing agency to perform tests and inspections. Allow inspectors access to scaffolding and work areas as needed to perform tests and inspections. Retesting of materials that fail to comply with specified requirements will be at Contractor's expense.