



**1. Product Name**

Halfen Anchoring Systems

**2. Manufacturer**

Halfen Anchoring Systems  
Meadow Burke Products

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**3. Product Description**

**BASIC USE**

Halfen Anchoring Systems offers a full line of anchors for use in precast and cast-in-place concrete. These pre-engineered systems accommodate onsite adjustment for faster, easier installation of facades, structural components, services and equipment.

**Halfen Anchor Channels**

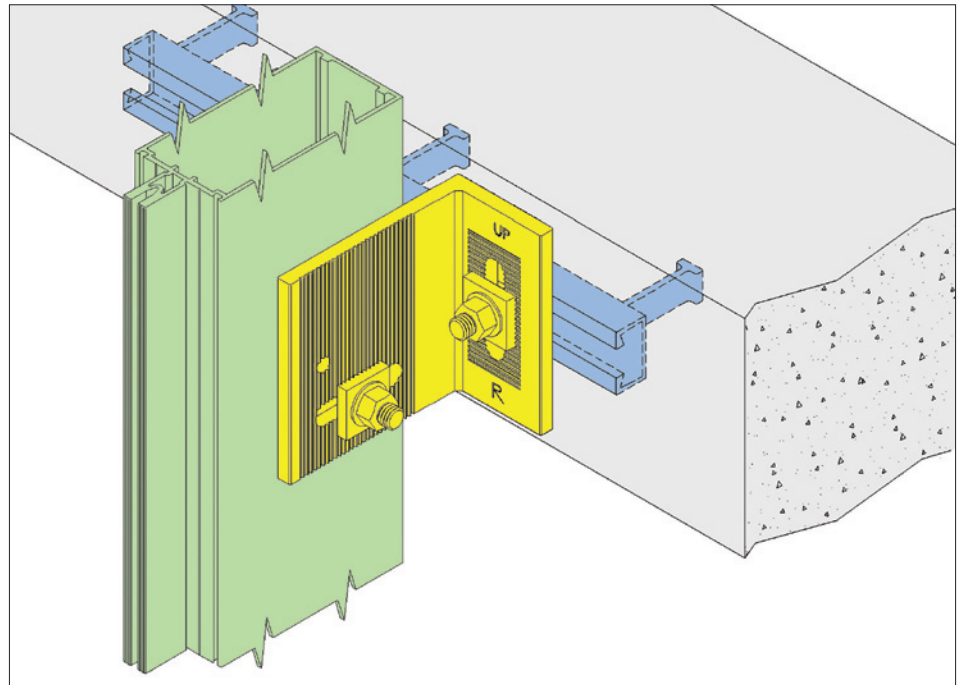
Halfen Anchor Channels offer adjustment, high load capacity and simplicity of installation. Typical applications include installation of anchor channels in top of slab or edge of slab conditions. Anchor channels are used to secure curtain wall anchors or brackets, which are used as wind load or dead load connections for the curtain wall. Other applications include monorail or crane rail connections, securing equipment to concrete, connecting columns and beams to concrete, handrail connections, elevator and escalator connections, and pipework and services anchoring.

**Precast Panel Anchors**

These restraint anchors for panels offer simple, adjustable sliding or fixed connections. Restraint anchors are also available for zero edge distance conditions, insulated panels and spot inserts for anchoring windows and door frames. Custom designed anchors are also available.

**Double-Tee Stem Anchors**

The Halfen Double-Tee Stem Anchor is cast into the bottom face of precast concrete tees. Easy to install, it provides for adjustable



Halfen Anchor for Curtain Wall

anchoring of walls, partitions and building services to the underside of double tees.

**Other Products**

For information on other Halfen products for brick, stone and curtain wall anchoring, see:

- 04 05 23- Masonry Accessories
- 08 44 00 - Curtain Wall and Glazed Accessories

**COMPOSITION & MATERIALS**

Anchor Channels come complete with foam filler to keep slots clear during concrete pouring, and nail holes for securing the Anchor Channels to formwork. After formwork has been removed, connections are made to Anchor Channels using Halfen Tee-Bolts, positioned anywhere along the length of the channel. Halfen Anchor Channels are made from either cold formed or hot rolled steel channel profiles, with hot rolled I-anchors securely welded to the back. They are available in either a hot dip galvanized finish or stainless steel.

**SIZES**

Products are available in a variety of sizes, including 11 different channel profiles. Lengths range from 1 3/4" - 20' (44 - 6096 mm).

**SHAPES**

See manufacturer's complete technical information publications for descriptions of all available shapes and configurations.

**LIMITATIONS**

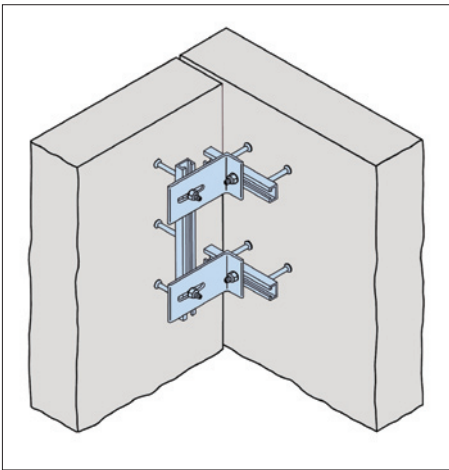
Successful use of these products can depend on review by a competent design professional familiar with the product line and with the design requirements of the particular project.

**4. Technical Data**

**APPLICABLE STANDARDS**

ASTM International

- ASTM A123 Standard Specification for Zinc (Hot-Dip Galvanized) Coatings on Iron and Steel Products
- ASTM A153 Standard Specification for Zinc Coating (Hot-Dip) on Iron and Steel Hardware
- ASTM A283 Standard Specification for Low and Intermediate Tensile Strength Carbon Steel Plates
- ASTM A570 Standard Specification for Steel, Sheet and Strip, Carbon, Hot-Rolled, Structural Quality
- ASTM A576 Standard Specification for Steel Bars, Carbon, Hot-Wrought, Special Quality
- ASTM A666 Standard Specification for Annealed or Cold-Worked Austenitic Stainless Steel Sheet, Strip, Plate, and Flat Bar
- ASTM B633 Standard Specification for Electrodeposited Coatings of Zinc on Iron and Steel



Halfen Precast Panel Anchors

- ASTM B695 Standard Specification for Coatings of Zinc Mechanically Deposited on Iron and Steel
- ASTM F568 Standard Specification for Carbon and Alloy Steel Externally Threaded Metric Fasteners
- ASTM F738 Standard Specification for Stainless Steel Metric Bolts, Screws, and Studs

Note - Products may be of non-U.S. origin, but will meet or exceed the requirements of the applicable standards.

**APPROVALS**

Contact manufacturer for more information.

**ENVIRONMENTAL CONSIDERATIONS**

Metal components can contain material from all or partly recycled sources and generally are recyclable upon demolition.

**PHYSICAL/CHEMICAL PROPERTIES**

Test reports are available upon request. Halfen Anchoring and Support Systems offer allowable loads up to 17,600 lb (78.3 kN).

**5. Installation**

Complete installation recommendations are available from the manufacturer.

**PREPARATORY WORK**

Handle and store product according to manufacturer's recommendations. Deliver in original packaging with labels and other identification intact. Store in a dry area, protected from weather.

**METHODS**

Anchor channels are fastened to concrete formwork before pouring concrete. Anchor

channels can be cast into precast components to provide a bolted connection point. Attachment to the anchor channels is by tee-bolts, manufactured specifically for use with the channels, or other suitable fastener device approved by manufacturer.

**PRECAUTIONS**

Comply with applicable jobsite safety provisions.

**BUILDING CODES**

Current data on building code requirements and product compliance can be obtained from manufacturer's technical support specialists. Installation must comply with the requirements of all applicable local, state and national code jurisdictions.

**6. Availability & Cost**

**AVAILABILITY**

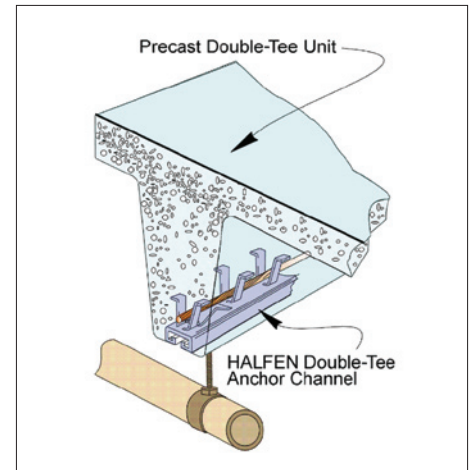
Contact manufacturer for information on product distribution and local availability.

**COST**

Budget cost information can be obtained from the manufacturer.

**7. Warranty**

Meadow Burke Products Limited Warranty - Meadow Burke Products (Supplier) warrants that Halfen Anchoring Systems products sold to Purchaser will be free from defects in materials and workmanship for a period of one (1) year from the date of delivery, and Supplier will repair, or in its sole discretion, replace, any Product or part thereof found to be defective at the time of delivery if such Product or part is returned (at Purchaser's expense and risk) and received by Supplier within ten (10) days after the applicable warranty period. Descriptions, representations and other information concerning Supplier Products contained in Supplier's catalogs, advertisements or other promotional materials or statements or representations made by Supplier sales agents or representatives shall not be binding upon Supplier and shall not be part of this limited warranty unless expressly identified in writing as Product Specifications. This limited warranty does not cover normal maintenance, or items consumed during installation or normal operations, normal wear and tear, use under circumstances exceeding specifications, use for purposes other than the use for which the Products were intended, abuse, unauthorized repair or alteration, improper installation, failure to follow



Halfen Precast Double-Tee System Anchors

Supplier's printed instructions, guidelines and recommendations for installation and use, lack of proper maintenance or damage caused by natural causes such as fire, storm or flood. Purchaser shall determine the suitability of the Product for the intended use and Purchaser assumes all liabilities and risks whatsoever in connection therewith. This limited warranty is Purchaser's exclusive remedy. It shall not be deemed to have failed of its essential purpose so long as Supplier is willing and able to repair or replace defective products or parts thereof in the manner specified. No allowance will be made or repairs made by Purchaser. Except as herein provided, Supplier shall not be liable to Purchaser in any manner with respect to the Products. In no event shall Supplier's liability to Purchaser ever exceed the purchase price of the allegedly defective Product. Except as herein provided, Supplier shall not be liable for transportation, labor or other charges for adjustments, repairs, replacements of parts, installation or other work which can be done upon or in connection with the Products sold. Supplier shall not in any event be liable for incidental or consequential damages of any nature whatsoever, including lost profits, whether arising from any defect in the Products, any use of the Products, from Purchaser's inability to use the Products, or otherwise. This limited warranty applies only to products made by Supplier. No other express and no implied warranties of any type, whether for merchantability, fitness for a particular use, or otherwise, other than those expressly set forth above (which are made expressly in lieu of all other warranties) shall apply to the products.

**8. Maintenance**

No specific maintenance procedures are required for properly installed anchoring system components. Periodic inspection of installations is recommended. Correct any situations such as water infiltration or pipe leakage which might lead to corrosion and premature failure.

**9. Technical Services**

Service personnel offer design assistance and technical support. For technical assistance, contact manufacturer.

**10. Filing Systems**

- Reed First Source®
- MANU-SPEC®
- Sweet's Catalog Files
- Additional product information is available from the manufacturer upon request.