



1. Product Name

DETAN Tension Rod System

2. Manufacturer

Halfen Anchoring Systems
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3. Product Description

BASIC USE

The DETAN Tension Rod System is an aesthetically pleasing method of providing bracing or structural support. The DETAN system is manufactured from both carbon steel and stainless steel in a variety of sizes. Adjustment for length is hidden within the system and is provided without the use of turnbuckles or unsightly exposed threads.

TYPES

Stainless Steel System DETAN-E

DETAN Tension Rod Systems in stainless steel are typically used in applications where a high resistance to corrosion is necessary or where a polished finish is preferred. Stainless steel tension rods are available up to 19.7 (6 m) long in 9 diameters, ranging from 0.24" - 1.18" (6 - 30 mm). As with the carbon steel system, couplers and anchor discs may be used to extend the system when long spans are required.

Carbon Steel System DETAN-S460

Available in 19 diameters, the DETAN System is supplied in 2 carbon steel strengths:

- System diameter 6 - 12 mm; yield strength 52,500 psi (360 MPa)
- System diameter 16 - 95 mm; yield strength 67,000 psi (460 MPa)

By using high grade steels, the DETAN System is able to provide superior performance and economy, while saving material and weight.

COMPONENTS

- Tension rods - Supplied with one left-hand thread and one right-hand thread to engage with corresponding left and right forks
- Couplers - Used to join DETAN tension rods in applications requiring long spans
- Anchor discs - Another method for extending the span of the system, they can also be used to provide a central connection point for structures requiring cross bracing
- Fork connectors - Provide an adjustable connection between the tension rod and connection plates on the structure or anchor discs
- DETAN compression rods - Satisfy design requirements for bracing and fulfill the occasional need for a compression member to both strengthen and stabilize the structure
- Connection plates - Used to attach the tension rods to the structure, these plates are made by others following the geometry and design guidelines shown in the DETAN catalog

COMPOSITION & MATERIALS

- DETAN-E System - Stainless steel
- DETAN-S460 System - Carbon steel

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

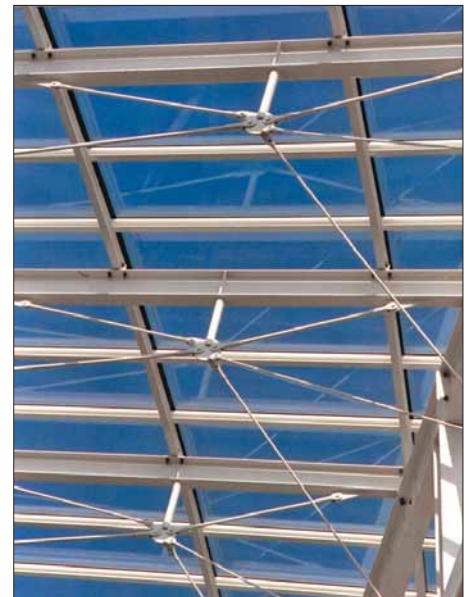
All DETAN-S460 and DETAN-E materials are essentially equivalent to ASTM standards for carbon steel and stainless steel, respectively. Detailed information on specifications and standards for different DETAN components are available upon request.

APPROVALS

The manufacture of every component in the DETAN system is permanently controlled and fulfills the requirements of the Halfen Quality Management System, certified according to ISO 9001. Contact manufacturer for more information.

ENVIRONMENTAL CONSIDERATIONS

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



Skylight support application

PHYSICAL/CHEMICAL PROPERTIES

Test reports are available upon request. DETAN Tension Rod Systems allow load capacity up to 605,790 lb (2695 kN).

5. Installation

Complete installation recommendations are available from the manufacturer.



Glass wall application



10. Filing Systems

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

Cross-bracing structural application

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. When using connecting plates fabricated by others, the materials, dimensions and geometry specified in the DETAN catalog should always be observed. Before installation, the DETAN components should always be checked for any damage caused during shipment.

METHODS

- The DETAN locknut is screwed on fully on the DETAN Tension Rod. The fork connector is screwed on the tension rod until the required system length is achieved. The locknut is then screwed back toward the fork connector until it is locked
- Observe special markings on the DETAN tension rod to ensure, by screwing the locknut up properly, that the minimum screw-in depth into the fork end is achieved. This is confirmed when the mark is covered and the locknut is properly tightened
- The pin in the fork connector is secured by 2 circlips, one on each side. Use sprung pliers for the installation of circlips

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 installed cost information can be obtained from the manufacturer.

7. Warranty

Complete warranty terms and conditions are available from Halfen Anchoring Systems. For details, consult manufacturer.

8. Maintenance

No specific maintenance procedures are required for properly installed tension rod system components. Periodic inspection of installations is recommended.

9. Technical Services

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