Fire Sprinkler Hanging & Bracing Products

Innovative Hanging & Bracing Fire Protection Solutions
To help ensure the availability and operation of safety systems after an earthquake event, many building and industry codes now include requirements for the design and installation of seismic sway bracing for non-structural components, such as fire sprinkler, mechanical, electrical and plumbing systems. The innovative line of nVent CADDY Bracing Systems was developed to help keep fire sprinkler systems intact after a seismic event and to minimize water damage resulting from leaks or ruptures.

Bracing Systems provide contractors with high-quality, engineered solutions, which include rigid bracing, cable bracing and rod stiffeners.

**FEATURES:**

- Quick and easy installation
- Lower total installed cost
- OSHPD® Pre-Approved
- Meets NFPA® 13
- cULus® Listed
- FM® Approved
nVent CADDY Bracing System Software

Now it’s easier than ever to select the correct bracing products for use in fire protection applications. The Bracing Systems Calculator is a new web-based calculator which allows users to create and save designs for multiple projects while providing the necessary submittal forms. This time-saving calculator simplifies the selection of products and provides the necessary engineering calculations – providing a complete solution to support rigid bracing, cable bracing and branch line restraints.

**FEATURES**

- No installation needed – access via a current web browser
- Offers dynamic design preview and uses visual design tools
- Generates a complete submittal for NFPA or FM designs
- Create, manage, and re-use designs
- Supports NFPA® 13 including 2013 ed., IBC® and other building codes
- Ability to generate a material list (bill of material) with nVent CADDY products as well as other required materials (pipe, anchors, etc.)
The nVent CADDY line of innovative rigid bracing products was designed to provide superior performance and meet the highest seismic load requirements. The products have been designed with the end user in mind and provide contractors with labor-saving features to promote quick and easy installation. The system of products supports lateral and longitudinal bracing and offers a wide range of structural and pipe attachments.

**FEATURES:**

• Patent-pending lateral braces eliminate need for multiple trips up and down ladders
• Adjustable design can be used with different brace pipe sizes, providing flexibility on the jobsite and reducing contractor inventory
• Snap-off bolt heads help make installation and inspection quick and easy
• Single wrench size installs all products
• For use with brace pipe lengths up to 19’ - 8” (6m)
• cULus® Listed
• FM® Approved
• OSHPD® Pre-Approved (OPA-2629-10) to the 2010 California Building Code and (OPM-0062-13) to the 2013 California Building Code
Bar Joist Attachment (Also for I-Beams)  
**CSBBARJ**

Adjustable I-Beam Attachment  
**CSBIB**

I-Beam Attachment  
**CSBBC**

Multi Attachment  
**CSBMA**

Universal Structural Attachment ("UNIV")  
**CSBUNIV**

Easy Universal Sway Brace ("EZU")  
**CSBEZU**

Standard Universal Sway Brace ("STU")  
**CSBSTU**

Quick Grip Jr. Lateral Sway Brace  
**CSBQIKCL**

Quick Grip Lateral Sway Brace ("QG")  
**CSBQG**

#### = Sprinkler pipe size  
** = Finish - ie EG  
CSBSTU0250EG = 2 1/2" pipe size, Electrogalvanized
Now There's a Faster, Easier Way to Restrain Branch Lines in a Fire Sprinkler System

THE NEW NVENT CADDY BRANCH LINE RESTRAINT SYSTEM

• Complete restraint system includes structure and pipe attachments
• Works with 3/8” and 1/2” rod
• Quick and easy installation
• Meets NFPA® 13
• cULus Listed and FM® Approved
• OSHPD pre-approved

WIDE RANGE OF STRUCTURAL ATTACHMENTS:

- Steel
- Threaded Insert
- Wood/Concrete

ANOTHER INNOVATIVE HANGING & BRACING FIRE PROTECTION SOLUTION FROM NVENT CADDY.

FM is a registered certification mark of FM Approvals LLC, LTD.
NFPA is a registered trademark of the National Fire Protection Association.

SAVE TIME ON YOUR NEXT INSTALLATION WITH THE BRANCH LINE RESTRAINT SYSTEM. VISIT NVENT.COM/CADDY FOR FULL DETAILS.
Traditional methods for installing branch line restraints in fire sprinkler systems are cumbersome and time-consuming. Contractors often cut (and re-cut) threaded rod to precise measurements to restrain the sprinkler pipe with a loop hanger and surge restraint. Traditional methods also commonly require five or more parts per restraint.

To avoid these labor-intensive methods, nVent CADDY has streamlined the process and developed the Branch Line Restraint System, part of the line of hanging and bracing solutions for the fire protection market. Ideal for restraining 1” (25 mm) through 2” (50 mm) branch lines, this innovative system is significantly faster and easier to install than current methods. It attaches directly to steel bar joists, I-beams or purlins, as well as concrete and wood structures. The hardware is installed with only one tool, a 5/16” (8 mm) socket drill driver, which provides significant labor savings and convenience. It features a simple, two-step installation process, allowing a time savings of up to 80% compared to other methods.

Unlike most solutions that only accept 3/8” (M10) threaded rod, the versatile Branch Line Restraint System features a swivel attachment that can be rotated to accept 3/8” or 1/2” (M10 or M12) threaded rod. This allows greater restraint distances from the pipe to structure with 1/2” (M12) threaded rod.

The system meets the requirements of NFPA® 13, making it ideal for new construction applications. The total system is cULus® Listed and FM® Approved, and has been pre-approved by the state of California (OSHPD OPA-2629-10 & OPM-0062-13).

| Branch Line Restraint Structure Attachment to Steel | CSBBRS1EG |
| Branch Line Restraint Structure Attachment to Wood/Concrete (No seismic approval in concrete) | CSBBRS2EG |
| Branch Line Restraint Structure Attachment to Threaded Hole (Concrete anchor, beam clamp, through bolt steel) | CSBBRS3EG |

Branch Line Restraint System

| Branch Line Restraint Pipe Attachment | CSBBRP####** |
| Branch Line Restraint Structure Attachment to Steel | CSBBRS1EG |
| Branch Line Restraint Structure Attachment to Wood/Concrete (No seismic approval in concrete) | CSBBRS2EG |
| Branch Line Restraint Structure Attachment to Threaded Hole (Concrete anchor, beam clamp, through bolt steel) | CSBBRS3EG |

#### = Sprinkler pipe size
** = Finish - ie EG
CSBBRP0150EG = 1 1/2” pipe size, Electrogalvanized

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nVent CADDY cable bracing is an ideal alternative to rigid bracing for fire sprinkler systems when brace lengths greater than 19'-8" (6m) are required or when confined/crowded spaces make rigid systems difficult to install. The system includes pre-stretched steel cable, attachment fittings, crimping sleeves and related tools. The system can also be used to brace electrical, mechanical and plumbing systems.

FEATURES:

• Color-coated cable conforms to NFPA® 13 requirements and makes it highly visible and easier to identify cable sizes
• UL® Listed
• OSHPD® Pre-Approved (OPA-0619)
• Made in the USA
Cable Spool
CSB##CBL

Crimping Sleeve
CSB##SLVB

Stake Eye Kit
CSB##BD##L10

Loop Attachment Clip
CSB##B###L##

No Pry Clip
CSBNPC##

Universal Restraint Clip
CSBURC####

Universal Restraint Clip, Retrofit
CSBURCR##

Cable Cutter
CSBC9

Manual Swaging Tool
CSB12SBHS, CSB48

Multi-Size Manual Swaging Tool
CSB3346SB

Power Swaging Tool
CSBHS02

Die Set for Power Swaging Tool
CSBDI##

### = Multiple sizes Available
CSB12CBL = #12 brace size
Bracing Accessories

- **Strut Seismic Hinge**: CSBSH#####
- **Pipe Rod Stiffener**: CSBRS1
- **Strut Rod Stiffener**: CSBRS37EG
- **Shear Bolt**: CSBBARJSB50EG, CSBIBSB50EG, CSBUNIVSB62EG
- **Shear Nut**: CSBQIKCLSN37EG, CSBIBSN37EG

#### = hole size
** = Finish - ie EG
CSBSH00500EG = 9/16 hole size, Electrogalvanized
Pipe Hangers

115 Standard Duty Loop Hanger
115####**

Surge Restraint
SR6

FCS Height Adjustable Loop Hanger
FCS####††

Yook Hanger
135####**

105 Stainless Steel Loop Hanger
105####S*

115N Standard Duty Loop Hanger, No Insert Nut (for metric applications)
115N####EG*

FCS Height Adjustable Loop Hanger (for metric applications)
FCS####††

115 Standard Duty Loop Hanger, No Insert Nut (for metric applications)
115N####EG*

FCS Height Adjustable Loop Hanger (for metric applications)
FCS####††

115 Standard Duty Loop Hanger, No Insert Nut (for metric applications)
115N####EG*

FCS Height Adjustable Loop Hanger (for metric applications)
FCS####††

HD NI Heavy Duty Pipe Clamp, Fire/Sprinkler (for metric applications)
HDN####

401 Galvanized Clevis Hanger
401####HD

410 Light Duty Clevis Hanger
410####**

512 EZ RISER for Close Quarters
512####**

510 EZ RISER
510####**

455 Malleable Split Ring Hanger
455####**

456 Malleable Split Ring Hanger for Copper Tube
456####CP

### = pipe size
** = Finish - ie EG
1150400EG = 4” pipe size, Electrogalvanized

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The nVent CADDY SOSR is designed for CPVC and is UL approved for side of joist installations and bottom of joist installations. It has a live hinge that opens to simplify installation. Some flimsy CPVC products are not approved for side of joist installations and do not meet NFPA® 13 surge requirements.
The Rod Lock family of products allows contractors to prefabricate complex assemblies at ground level or offsite, and then easily lift and lock them into place by pushing the threaded rod supports into the Rod Lock device. This ingenious technology works with threaded rod with burrs or imperfections, helping to eliminate clean-up time or the need to replace damaged threaded rod.

The most unique feature of the system is its breakthrough "push-to-install" design, which dramatically reduces the installation time of threaded rod support structures when compared to conventional fasteners. Simply speaking – Rod Lock is revolutionizing how contractors support conduit, cable tray, lights, ductwork and pipe by helping to make installations faster, easier and more secure.
Structural Attachments

- **310 Universal Beam Clamp, Wide Mouth**
- **305 Stainless Steel Top-Mount Beam Clamp**
- **300C Standard Retainer Strap**
- **34SL Retrofit Retainer Strap**
- **PH Multi-Purpose Purlin Clamp**
- **PHSW Multi-Purpose Purlin Clamp with Swivel**
- **315 Malleable Iron Purlin Clamp**
- **325 Steel Side Beam Attachment**
- **327 Malleable Iron Side Beam Attachment**
- **326 Universal Steel Side Beam Attachment**
- **329 Side Beam Attachment**
- **328 Threaded Steel Side Beam Attachment**

### Available Products:
- **SBC Stamped Beam Clamp, Top Mount**
  - SBC037 / SBCM10
- **300 Universal Beam Clamp**
  - 300####**

### Specifications:
- **PH Multi-Purpose Purlin Clamp**
  - PH6FP
- **PHSW Multi-Purpose Purlin Clamp with Swivel**
  - PHSW6FP

### Notes:
- ### = Multiple sizes available
- ** = Finish - ie EG
- 3000037EG = 3/8 rod size, Electrogalvanized
- 300C3712EG = 3/8 rod size, 12" length

[Source: nVent.com/CADDY]
37 Steel Eye Socket Rod Hanger
38 Offset Steel Eye Socket Rod Hanger
365 Steel Wall or Ceiling Plate
365M Malleable Iron Wall or Ceiling Plate

PBF Two Hole Base Plate for Threaded Rod (for metric applications)
PBF Two Hole Base Plate for Threaded Pipe (for metric applications)
PBF Four Hole Base Plate for Threaded Pipe (for metric applications)
352 Standard Duty Welded Wall Bracket

253 Heavy Duty Welded Wall Bracket
Triangular Wall Bracket, Four/Three Hole (for metric applications)
Triangular Wall Bracket, Four/Two Hole (for metric applications)
TBHK Trapezoidal Deck Hanger (for metric applications)

370A Single Concrete Insert Plate and Rod
355 Concrete Insert Plate
355N Nut for 355 Series
Visit nVent.com/CADDY for new product information, up-to-date product specifications and applications, a list of upcoming events and industry tradeshow participation and more.

A full literature library provides pertinent literature in an easy-to-download PDF format. This is a great way to stay informed on all the current publications. New product brochures and datasheets are posted as soon as they are printed.

In the News & Events section, customers can find new product updates, press releases and lists of seminars.

Locations and contact information is listed for nVent offices around the world as well as where to buy nVent products.

nVent.com/CADDY provides a convenient way to get the answers you need day or night. Visit nVent online.
Threaded Rod
050####**

EM-HEX Rod Coupler
025###EG

25R Hex Rod Reducer
025R####EG

150M Standard U-Bolt
150M#####

U-Bolt (for metric applications)
UB4N#####

U-Bolt, DIN 3570 (for metric applications)
UB2N#####

42 Hex Head Lag Screw
042####EG

43 Wood Drive Screw
043####EG

80 Tie Bolt
080#####PL

#### = Multiple sizes available,
** = Finish - ie EG
0503710EG = 3/8 rod size, 10" length, Electrogalvanized
150M0400PL = 4" pipe size
HangerMate® Horizontal Mount Screw for Steel
HMZH###
HangerMate® Horizontal Mount Screw for Steel with Lock Nut
HMZH476
HangerMate® Vertical Mount Screw for Wood
HMZG###
HangerMate® Vertical Mount Screw for Wood
HMZH665
HangerMate® Vertical Mount Screw for Concrete
HMZG###
HangerMate® SDS Drill Bit for Hammer Drills
HMZE###
HangerMate® Drill Bit Adaptor
HMZE240
HangerMate® Tanged Drill Bit for Hammer Drills
HMZE340
HangerMate® Hex Drive Socket
HMZE215
HangerMate® Drive Sleeve
HMZE220
MTVB Gravity Toggle with Rubber Washer
MTVB####

#### = Multiple sizes available
CA0025EG = 1/4" rod size
CSBCAB060062EG = 6" length, 5/8" screw dia.
Our powerful portfolio of brands:

CADDY  ERICO  HOFFMAN  RAYCHEM  SCHROFF  TRACER