IRR - ISOTECH RIGID RESTRAINT

ISOIN-IRR, Installation Instructions document to be reviewed for installation

File No.: ISOCS-IRR-1500 Standard Kit - 12ga Solid Strut Attachment Date:09/29/20

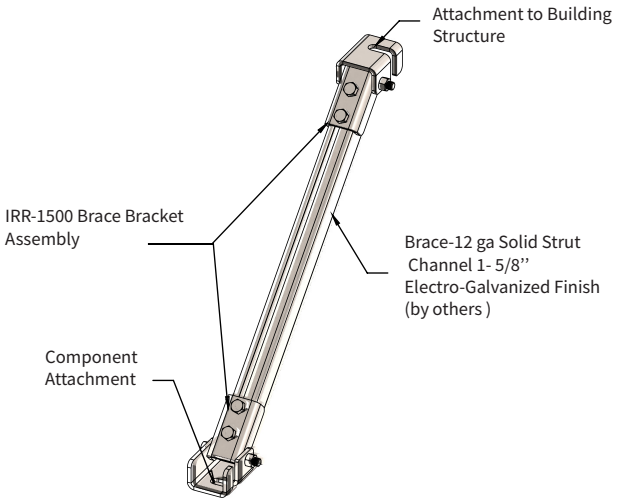
SPECIFICATIONS - RIGID RESTRAINT

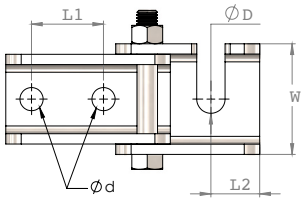
Model	Max. Load Allowed		Anchor/ Bolt Size		øD		Approximate weight	
	lb.	Kg	in	mm	in	mm	lb.	Kg
IRR-1500*	**1500**	681	**5/8**	16	**9/16**	16	**3.5**	1.6

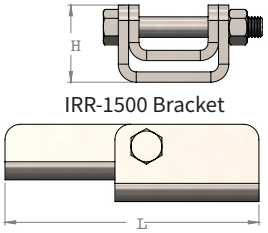
***Capacity is based on attachment to steel structure**

Model: IRR-1500 Standard Kit

Model	L		W		L1		øD		L2		H	
	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm
IRR-1500	**6 3/16**	158	**2 11/16**	69	**1 3/4**	45	**11/16**	18	**1 3/16**	31	**1 7/8**	48







Notes:

- IRR-1500 is a Seismic Restraint System for Suspended Distribution Systems & Equipment
- IRR-1500 Rigid Restraint Kit includes (2) IRR-1500 Bracket assemblies, (4) 1/2" Grade 5 Bolts and (4) 1/2" Strut Channel Clamping Nuts for both ends of Rigid Restraint System. Strut Channel, Concrete anchor and/ or bots for connection to building structure and component are by others
- Rigid Restraint Brackets are made of high yield/strength steel, hardware are all grade 5 and Strut Clamping Nuts are produced from hot rolled steel ASTM A108 Grades 1020
- ISOTECH Strut Channel Clamping Nut includes teeth. Nut Teeth grip the channel's inturned edges, tying the channel sides together in a "box" configuration for added strength. Each Strut Clamping Nut, size 1/2", can provide Max. Allowable Pullout Strength of 2000 lbs and Resistance to Slip when installed on 12 ga Solid Strut Channel
- IRR-1500 Rigid Restraint is designed for maximum lateral load of 1500 lbs, when attached to steel structure
- Rigid Restraint Brackets, hardware and clamping nuts standard finish is electro-galvanized for corrosion protection
- Anchor type, embedment, edge distance and anchor size have direct effect on Rigid Restraint system and must be detailed accordingly

Installation Instructions:

1. Review submittal drawings, read all details and conditions on site prior to performing any work on site. Follow submittal package and marked up drawing(s) to locate rigid restraint position and direction

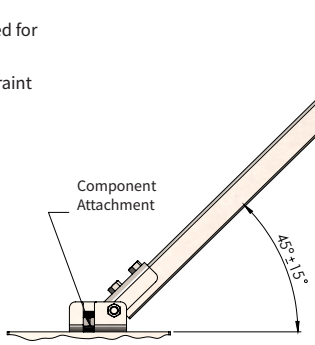
2. Review submittal calculation(s) and drawings for method of attachment to building structure and component. Follow details for anchor and bolt installations

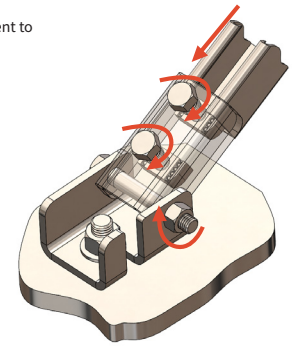
3. Safely secure IRR-1500 Bracket to suspended system using bolts and nuts, measure distance between component bracket and building structure at 45 degree angle and cut strut channel accordingly. IRR-1500 Rigid restraint system must be install at angle range between 30 to 60 degree as shown

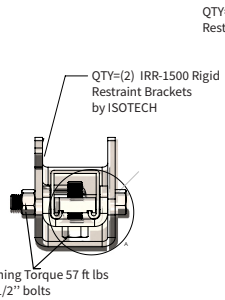
4. Slide strut channel over strut clamping nuts and push it all the way in on both sides and tighten the bolts accordingly using 3/4" wrench or socket. Strut Channel nuts are factory assembled with clamping bolts and IRR-1500 bracket.

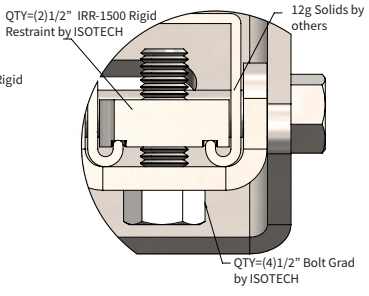
5. Follow Concrete Anchor manufacturer installation instructions and ensure proper torque is applied to connecting bolts and nuts

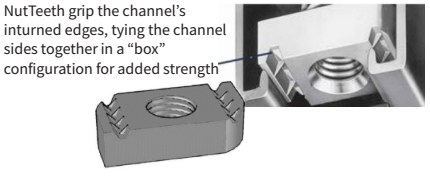
6. All 1/2" connecting bolts of IRR-1500 bracket must be torqued to 57 ft lbs, once restraint angle is set and installation in complete











PROJECT INFORMATION	
Customer:	
Project:	
Drawing No:	
Notes:	

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