

# IRRA - ISOTECH RIGID RESTRAINT

File No.: ISCOS-IRRA-3000R Standard Kit

Date: 09/29/20

ISOIN-IRRA-3000R, Installation Instructions Document, to be Reviewed for Installation

## SPECIFICATIONS : RIGID RESTRAINT

Model	Max. Allowed Load Tension or Compression c/w 12" strut		Anchor Bolt Size		ød		Approximate Weight	
	lb.	kN	in	mm	in	mm	lbs.	kg
IRRA-3000R	1000	454	5/8	16	5/16	15	3.7	1.7

## DIMENSION : IRRA-3000R Standard Kit

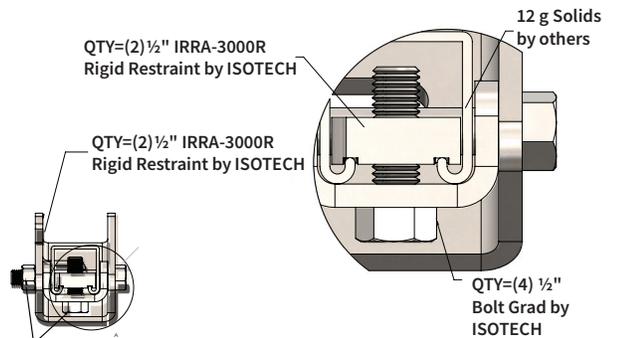
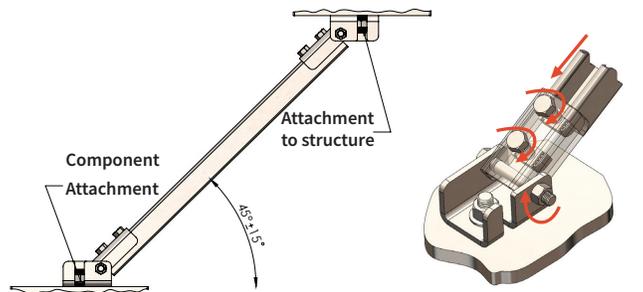
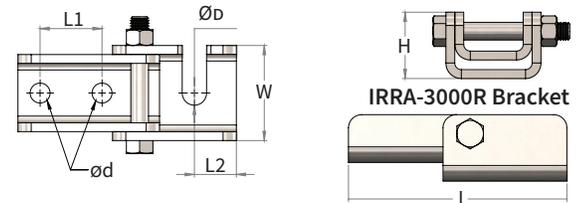
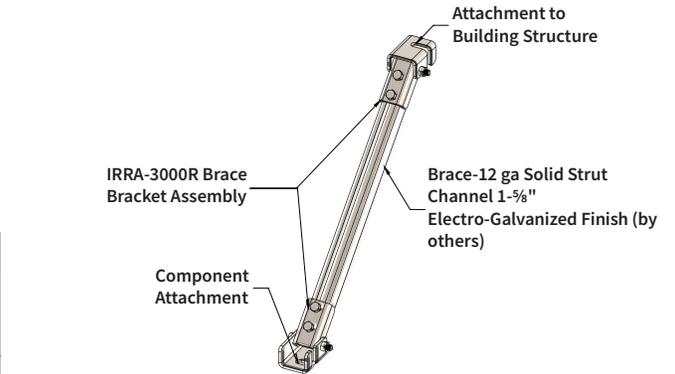
Model	L		W		L1		øD		L2	
	in	mm	in	mm	in	mm	in	mm	in	mm
IRRA-3000R	9	229	4 1/4	108	1 7/16	37	1 1/16	18	3 3/8	86

### Notes:

- IRRA-3000R is a Seismic Restraint System for Suspended Distribution Systems & Equipment.
- IRRA-3000R Rigid Restraint Kit includes (2) IRRA-3000R 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 in turned 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 3000 lbs and Resistance to Slip when installed on 12 ga Solid Strut Channel.
- IRRA-3000R Rigid Restraint is designed for maximum lateral load of 3000 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.

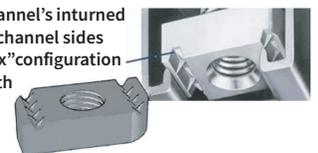
### Installation Instructions:

- 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.
- Review submittal calculation(s) and drawings for method of attachment to building structure and component. Follow details for anchor and bolt installations.
- Safely secure IRRA-3000R 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. IRRA-3000R Rigid restraint system must be install at angle range between 30 to 60 degree as shown.
- 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 IRRA-3000R bracket.
- Follow Concrete Anchor manufacturer installation instructions and ensure proper torque is applied to connecting bolts and nuts.
- All 1/2" connecting bolts of IRRA-3000R bracket must be torqued to 57 ft lbs, once restraint angle is set and installation in complete.



Tightening Torque 57 ft lbs for all 1/2" bolts

NutTeeth grip channel's inturned edges, tying the channel sides together in a "box" configuration for added strength



PROJECT INFORMATION		EQUIPMENT INFORMATION		Canada location	USA Location
Customer:		Type:		35 Siltan Road Woodbridge ON L4L 7Z8 CANADA T: 905-856-5001	3021 E Coronado St. Anaheim, CA, 92806 U.S.A T: 949-788-2930
Project:		Qty Required:			
Drawing No:		Operating Weight:			
Notes:					

Tool free : 1-888-831-3311  
www.isotechindustries.com

