IRCB ISOTECH EMT Rigid Restraint

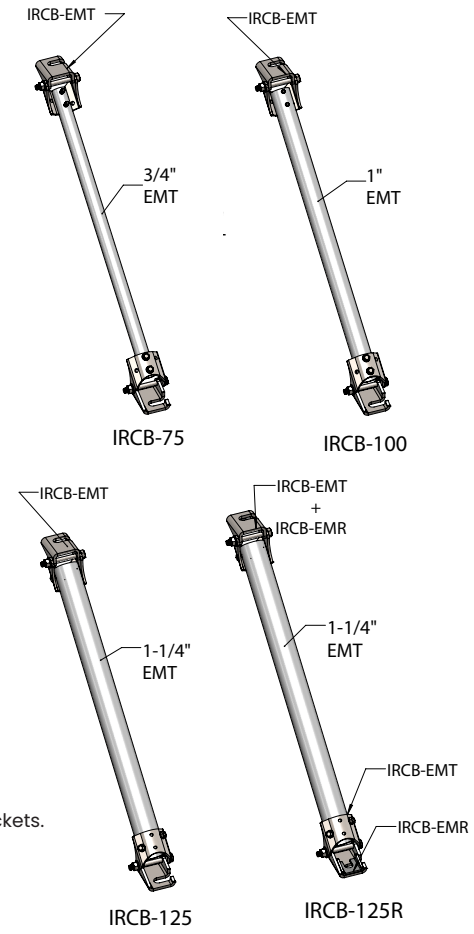
File No. : ISOCS-IRCB -XX Date: 05/10/25

ISOIN-IRCB-XX , Installation Instructions Document, to be Reviewed for Installation

SPECIFICATIONS : ISOTECH EMT Rigid Restraint

Rigid Restraint Model				Bracket Connection Screw Specification				Rated Capacity Tension or Compression	
Model	Bracket Type.	Bracket Reinforcement Adapter	Conduit Size(EMT)	Screw Type	Size	length (in)	Number of Screws per Bracket	RFD (lbs)	ASD (lbs)
IRCB-75	IRCB-EMT	Not Required	3/4"	Self -Drilling	#14	2.0	2	773	514
IRCB-100	IRCB-EMT	Not Required	1"	Self -Drilling	#14	2.0	2	1191	792
IRCB-125	IRCB-EMT	Not Required	1.25"	Self -Drilling	#14	2.5	2	1370	912
IRCB-125R	IRCB-EMT	IRCB-EMR Conduit Size	1.25"	Self -Drilling	#14	2.5	2	1808	1203

Model	Dimension : ISOTECH EMT Rigid Restraint Standard Kit																	
IRCB-75-125	L		W		L1		W1		L2		ØD		Ød		H		L3	W2
	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in mm	in mm
	7¼	96.90	2⅛	54.8	⅞	22.3	11⅜₁₆	46.8	1⅛₁₆	17.5	⅜₁₆	14.3	¼	6.4	2⅜₁₆	54.8	N/A	N/A
IRCB-125R	L		W		L1		W1		L2		ØD		Ød		H		L3	W2
	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in mm	in mm
	7¼	96.90	2⅛	54.8	⅞	22.3	11⅜₁₆	46.8	1⅛₁₆	17.5	⅜₁₆	14.3	¼	6.4	2⅜₁₆	54.8	1⅜₁₆ 30.2	1⅞₁₆ 36.1



Notes:

- IRCB-EMT are Seismic Restraints for Suspended Distribution Systems & Equipment.
- IRCB-75 to 125 EMT Rigid Restraint Kits includes (2) IRCB-EMT Bracket assemblies.
- IRCB-125R EMT Rigid Restraint Kit includes (2) IRCB-EMT Bracket assemblies + (2) IRCB-EMR reinforcing brackets.
- #14 Self-Drilling Screws are not included. EMT by Others.
- IRCB-EMT and IRCB-EMR Brackets are made of high yield/strength steel, hardware are all grade 5.
- IRCB-EMT and IRCB-EMR Brackets and hardware finish is electro-galvanized for corrosion protection.
- Bolt /Anchor type, embedment, edge distance and anchor size have direct effect on Rigid Restraint capasity 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.

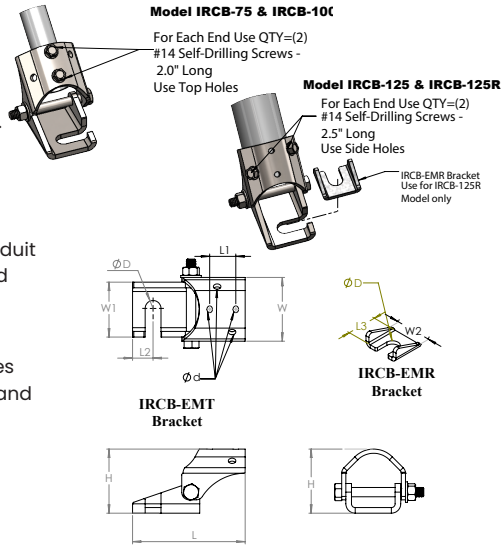
2. Review submittal calculation(s) and drawings for method of attachment to building structure and component. Follow details for anchor and bolt installations.

3. Safely secure IRCB-EMT Bracket assembly to suspended system using bolts and nuts, measure distance between component bracket and building structure at 30 to 60 degree angle and cut EMT Conduit accordingly. For Model IRCB-125R add IRCB-EMR bracket for the connection to suspended equipment and the connection to building structure. IRCB-75 to125 EMT and IRCB-125R Rigid Restraint systems must be install at angle range between 30 to 60 degree .

4. Slide the corresponding EMT size in IRCB-EMT Bracket. For Model IRCB-75 and IRCB-100 use the top holes and secure the 3/4 and 1" EMT to the bracket with (2) 2" long #14 Self-Drilling Screws. For Model IRCB-125 and IRCB-125R secure 1-1/4 EMT to the bracket using side holes with (2) 2.5" long #14 Self-Drilling Screw.

5. Self-Driling Screws must go all the way and come out from the other side of EMT.

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



PROJECT INFORMATION		EQUIPMENT INFORMATION	
Customer:		**Type:**	
Project:		**Qty Required:**	
Drawing No:		**Operating Weight:**	
Notes:			

Canada location

35 Silton Road
Woodbridge ON
L4L 7Z8 CANADA
T: 905-856-5001

USA Location

3021 E Coronado St.
Anaheim, CA.,92806
U.S.A
T: 949-788-2930

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

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