

TW Series THRU-WALL BARRIER® Cable/Conduit Sealing Device for Shipboard Application TWFS Series Frames

Installation & Maintenance Information

SAVE THESE INSTRUCTIONS FOR FUTURE REFERENCE

APPLICATION

TW Series THRU-WALL BARRIER® cable/conduit sealing devices for shipboard application consist of TWFS Series cast carbon steel frames assembled with TWBS Series sealing block assemblies. TWFS frames are designed for welding directly into steel bulkheads, decks, and prepared sleeves. The TWBS Series sealing block assemblies are inserted into the TWFS frames and aligned and held in place by keyways on the inside of the frame.

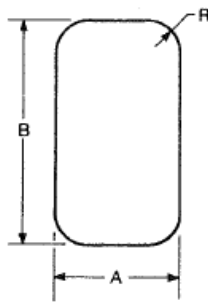
Watertightness for shipboard application is obtained through a factory applied silicone fluid coating on the sealing block assemblies and a silicone spray lubricant coating applied to the inside surfaces of the TWFS frame applied at the time of sealing block installation. O-ring gaskets seal the TWBS sealing block assembly bolts.

THRU-WALL BARRIER devices must be installed, inspected, and maintained by qualified and competent personnel.

INSTALLATION

1. Cut, burn, or grind frame and/or opening in bulkhead or deck for proper fit-up.

Opening Size Required for Mounting TWFS Frames into Steel Bulkheads or Decks.



Cat. No.	A		B		R	
	(In.)	(mm)	(In.)	(mm)	(In.)	(mm)
TWFS6	6.11	155.2	13.25	336.6	1.62	41.2
TWFS10	9.50	241.3	14.75	374.7	3.62	91.9
TWFS20	11.37	288.8	23.98	609.1	5.00	127.0
TWFS30	11.75	298.5	32.08	814.8	5.00	127.0

2. Clean all surfaces to be welded.
3. Insert TWFS frame into prepared opening or sleeve, support and tack weld in position.

IMPORTANT

Keeper bars must face the direction in which the sealing block assemblies will be installed.

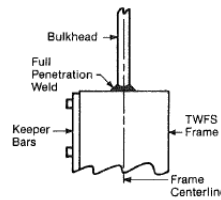
NOTE: Frame material is low carbon steel, MIL-S-15083B (Navy) Grade B. Use welding rod appropriate for the combination of this steel and the bulkhead or deck material.

4. Complete installation as shown:

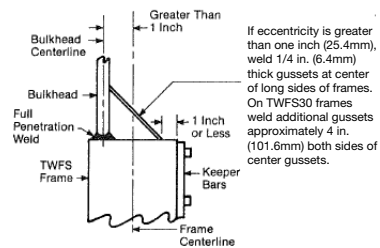
CAUTION

To ensure proper fit of sealing blocks, precautions must be made to minimize distortion of frame during welding. Corners must remain square and sides straight. Keyway-to-keyway distance must not be less than 9.41 in. (239.1mm) or more than 9.60 in. (243.8mm) after welding.

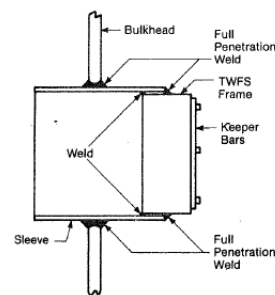
- A. In bulkhead, on center.



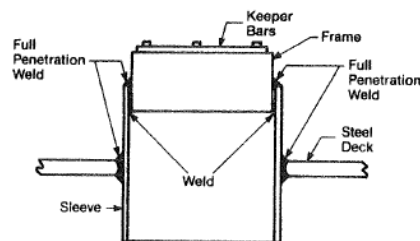
3. In bulkhead, Eccentric.



- C. In bulkhead, where sleeve is required.

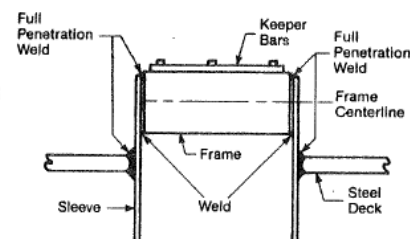


- D. In Deck, on center.



5. **Important:** If factory applied corrosion-resistant coating on inside surfaces of frame was damaged during installation, apply corrosion protection to those surfaces to minimize corrosion before installing sealing blocks.

- E. In Deck, Eccentric.



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