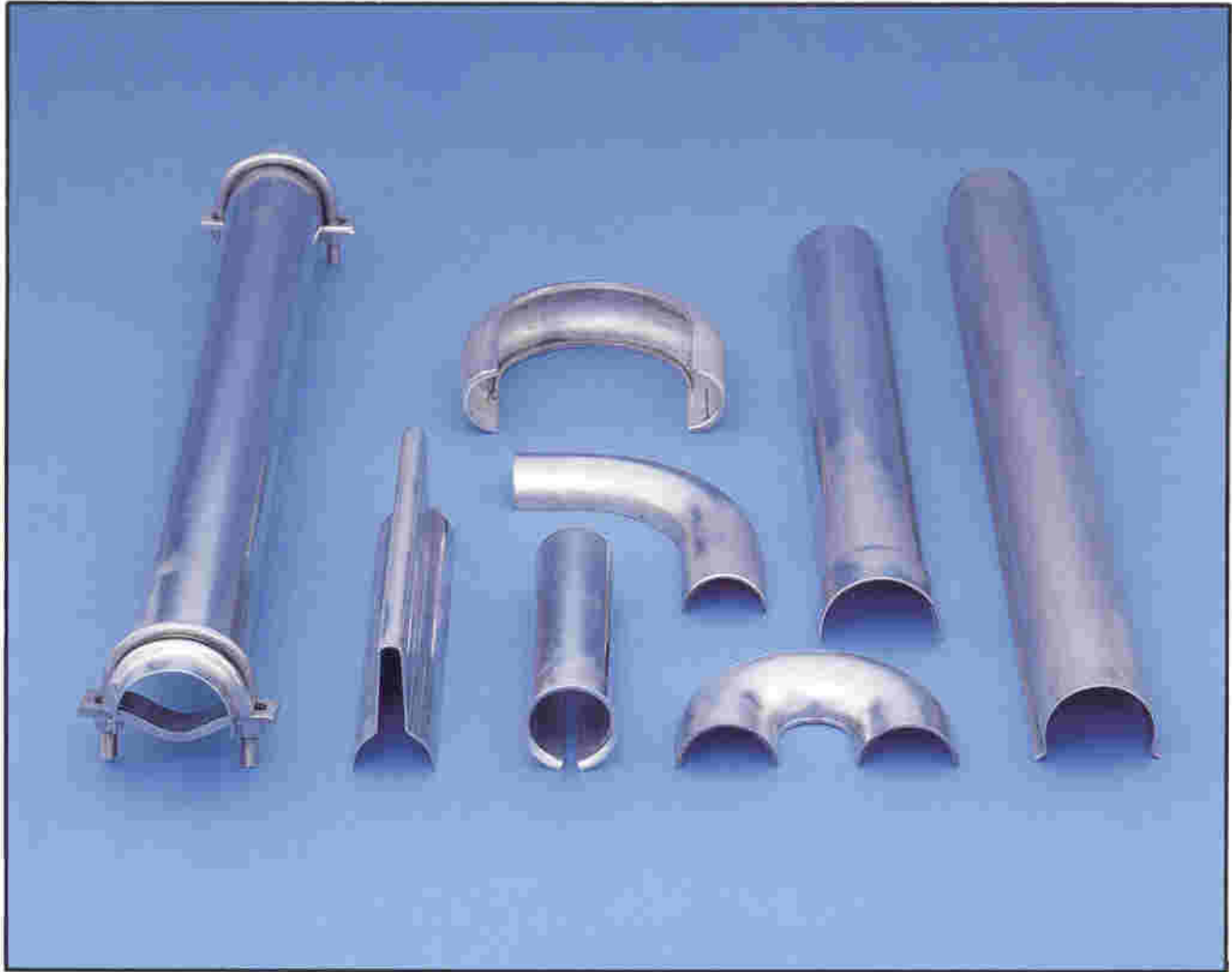


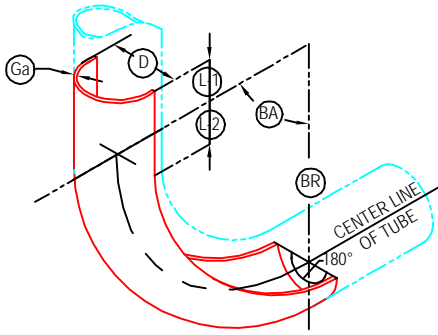
BOILER & CONDENSER TUBE SHIELDS



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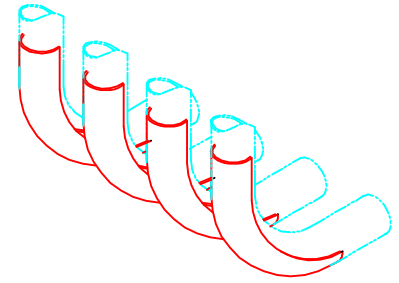
CHARLESTON, WEST VIRGINIA

Tube Shields-Outside Bend and Side Bend Types

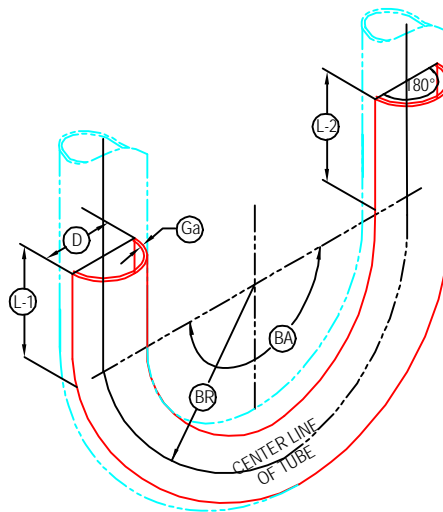


"O B" TYPE SHIELD
(Outside of Bend)

- (D) - Shield I.D. (Same as Tube O.D.)
- (L-1) - Length, Straight Section, One End
- (L-2) - Length, Straight Section, Other End
- (BA) - Tube Bend ARC
- (BR) - Tube Bend Radius
- (Ga) - Material Thickness

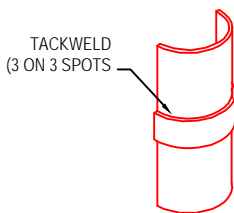


PROTECTION for Curved Boiler Tubes



"S B" TYPE SHIELD
(side of Bend)

- (D) - Shield I.D. (Same as Tube O.D.)
- (L-1) - Length, Straight Section, One End
- (L-2) - Length, Straight Section, Other End
- (BA) - Tube Bend ARC
- (BR) - Tube Bend Radius
- (Ga) - Material Thickness

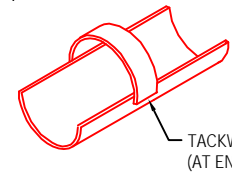
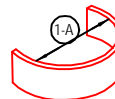


"SNAP-ON" CLIP
Used As Cover
Over Expansion Joint

- (D) - Clip I.D. (Same as Tube O.D.)
- (Ga) - Material Thickness

- (1-A) - Clip ID Same as OD of Shield

Clip used as Shield Retainer



TACKWELD (AT ENDS)

"SNAP-ON" TYPE CLIP

When Ordering SHIELDS and CLIPS* (or requesting quotation) please specify:

1-Type (or types) of Shield required; viz., "Snap on", "IB", "OB" or "SB"

2-Outside diameter of tubes to be protected.- (D)

3-Type of Stainless Steel desired; viz., 304, 310, 316 or other.

4-Material thickness required.- (Ga)

5-Number of each size Shield required.**

PLUS: For "Snap-On" Shields,

6-The length of each Shield.- (L)

For Curved Types

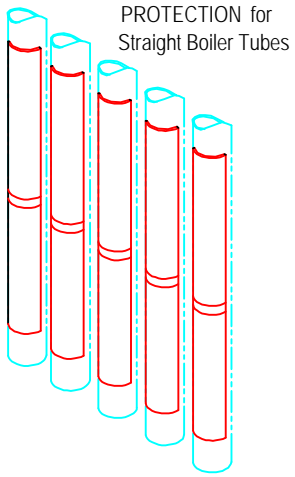
6- The degrees of Bend Arc.- (BA) the Radius of the Tube Bend.- (BR) and, the length of straight section each end.- (L-1) and (L-2)

*-Clips are Usually Ordered as so many per Shield; however, they can be supplied as Separate items. Sizes, Type of Stainless Steel and Material thickness should be specified as is done for Shields.

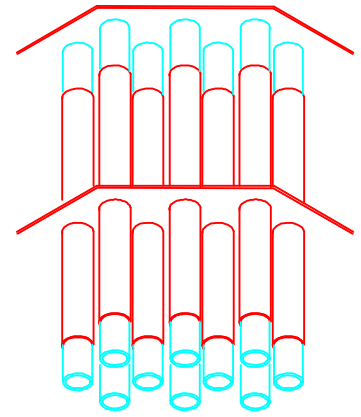
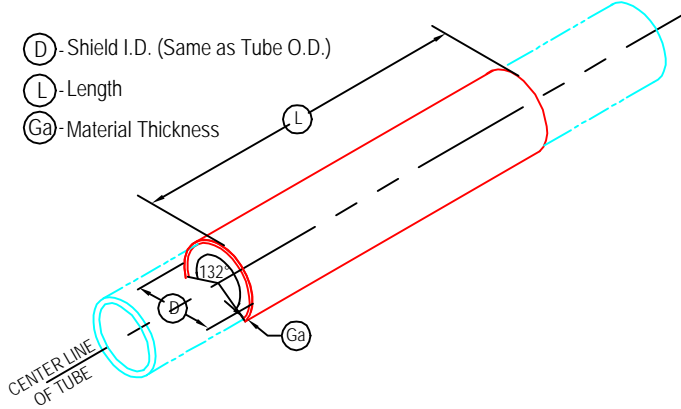
** -Quantity discounts are available

Tube Shields-Straight and inside Bend Types

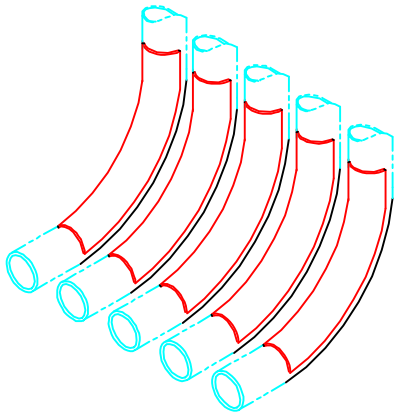
"SNAP-ON" TYPE SHIELD



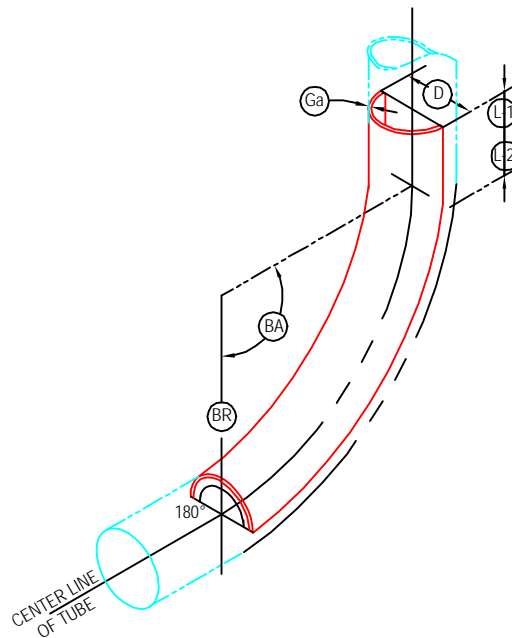
- (D) - Shield I.D. (Same as Tube O.D.)
- (L) - Length
- (Ga) - Material Thickness



PROTECTION for Condenser Tubes

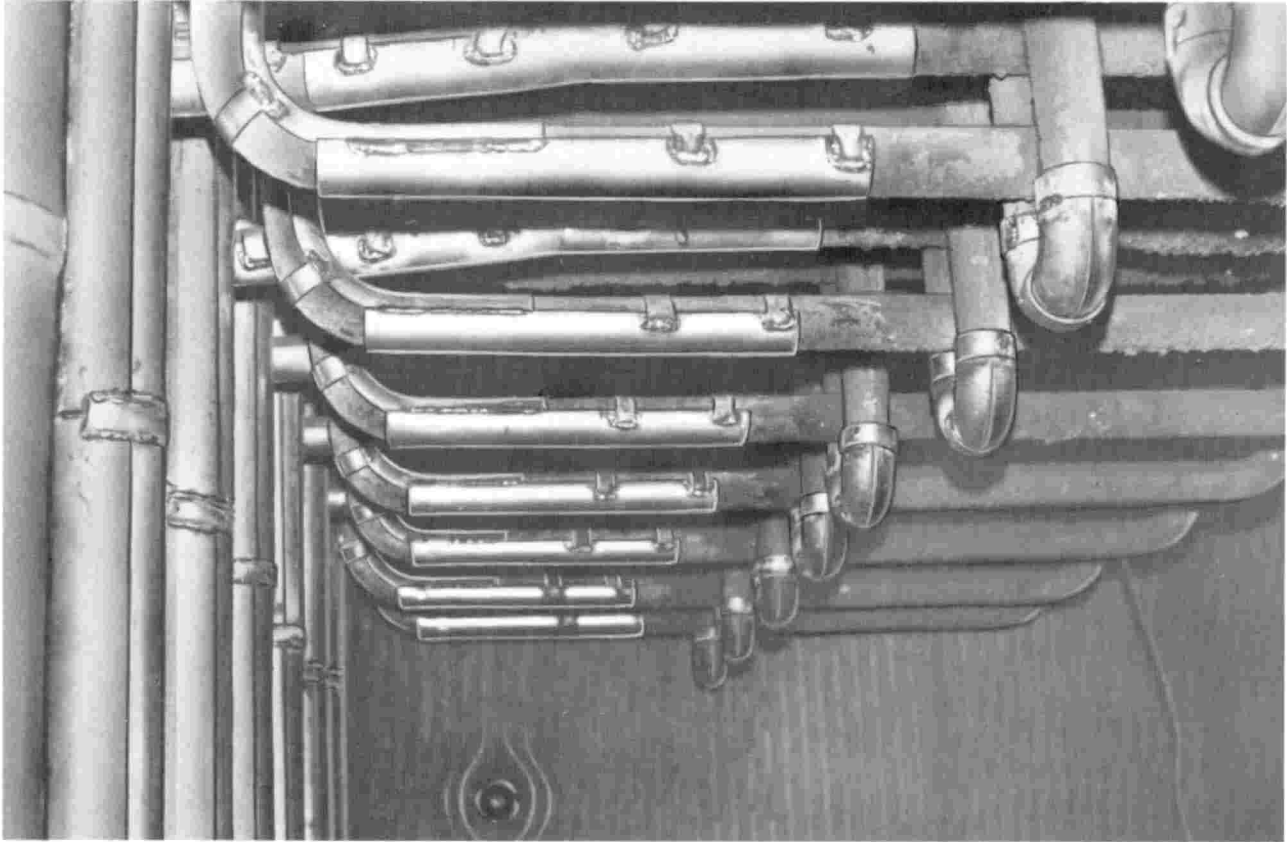


PROTECTION for Curved Boiler Tubes



- (D) - Shield I.D. (Same as Tube O.D.)
- (L-1) - Length, Straight Section, One End
- (L-2) - Length, Straight Section, Other End
- (BA) - Tube Bend ARC
- (BR) - Tube Bend Radius
- (Ga) - Material Thickness

"I B" TYPE SHIELD (Inside of Bend)



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Vane wheel conversions, conversion parts for MPS-89 and EL-70 pulverizers, 863, 843 and 523 bowl mill conversions, expansion joints, seal skirts, boiler castings, etc.

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