

Material Selection Guide

304 SS

- Stainless Steel
- Max Service Temp.: 1400°F
- Corrosion Resistant

309 SS

- Stainless Steel
- Max Service Temp.: 1800°F
- Corrosion Resistant

310 SS

- Stainless Steel
- Max Service Temp.: 1900°F
- Versus 309 SS
 - Lower rate of thermal expansion
 - Improved spalling resistance under cyclic conditions

316 SS

- Stainless Steel
- Max Service Temp.: 1500°F
- Superior corrosion resistance

INCONEL 601

- Max Service Temp.: 2200°F
- Hot corrosion resistance under oxidizing conditions

Tube Shields

for Boilers and Condensers



Features & Benefits

Wear-Con **Tube Shields** for Boilers and Condensers are designed to minimize tube failure in highly abrasive or corrosive areas. Our variety of **Tube Shield** styles provide a cost-effective way to prolong tube life.

Installation

Wear-Con **Tube Shields** can be installed with Wear-Con **Shield Clips** (see reverse for standard sizes).

Technical Specifications

Wear-Con **Tube Shields** are available in a wide variety of materials, styles, and wear characteristics (see left for material selection guide and reverse for standard sizes).

Sizes

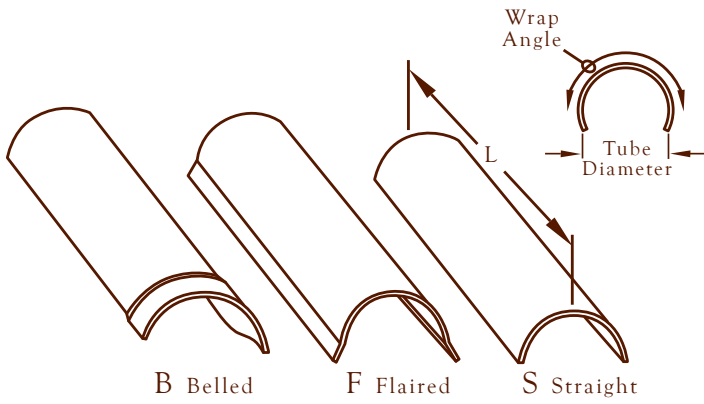
Wear-Con **Tube Shields** are available in an assortment of shapes and sizes to fit your wear needs (see reverse for standard sizes).

(See reverse for **Tube Shields** standard sizes.)

2845 E. Heartland Drive
Liberty, MO 64068

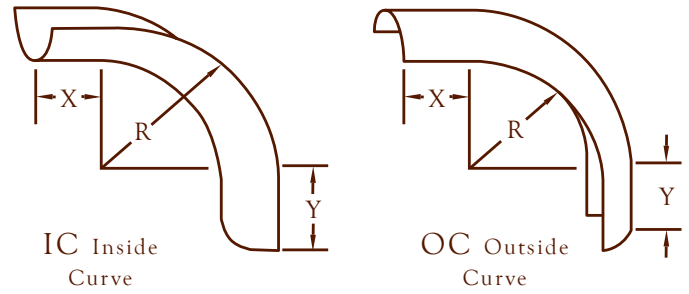
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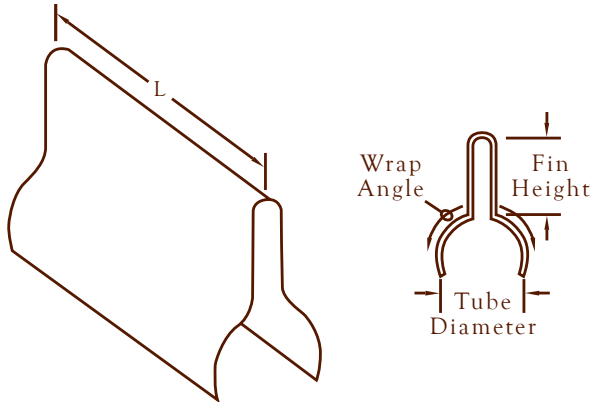
Straight Shields

Standard Sizes					
Tube Style	Tube Diameter	Wrap Angle	Guage	Material	Length (L)
B F S	1/2" - 5" (tube OD = shield ID)	90° - 240°	10 - 24	304 309 310 316 INCONEL	up to 120"



Curved Shields

Standard Sizes							
Tube Style	Tube Diameter	Wrap Angle	Guage	Material	Angle	Radius (R)	Extension (X, Y)*
IC OC	1/2" - 5" (tube OD = shield ID)	180°	10 - 24	304 309 310 316 INCONEL	up to 180°	Varies (Measure to center line of tube)	Varies (3" standard) *X and Y values may be different



Economizer Shields

Standard Sizes						
Tube Style	Tube Diameter	Wrap Angle	Guage	Material	Length (L)	Fin Height
E	1 1/2" - 3" (tube OD = shield ID)	60° - 240°	14 - 24	304 309 310 316 INCONEL	up to 48"	1 1/2" - 2 1/4"



Shield Clips

Standard Sizes						
Tube Style	Tube Diameter	Wrap Angle	Guage	Material	Length	Extension (E)
CB CW CO	1/2" - 5" (tube OD = shield ID)	up to 240°	14 - 24	304 309 310 316 INCONEL	Varies (1" standard)	Varies (1/2" standard)

(See reverse for Tube Shields information.)



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