

Press Formed Elbows, Angle Flanged, Sizes 3" - 7" 3211

TECHNICAL
DATA

ID	Bend Degrees	CLR (Center Line		Std Weight 30°	Std Weight 45°	Std Weight 60°	Std Weight 90°	Galvanized Steel	304S (or 316	
ln.	Available	Radius)	Tangents	Lbs	Lbs	Lbs	Lbs	24ga	14ga	22ga
3				1.60	1.75	1.60	1.75			
4	30°	Galvanized: 1.0		2.00	2.25	2.00	2.25		Tubed	
5	45° 60°	Optional : 1.5 Stainless Steel: 1.5	2.00	2.75	2.80	2.75	2.80	Std	Tubed	
6	90°			3.65	3.85	3.65	3.85			
7	00			4.80	4.90	4.80	4.90			Std



Construction:

Standard galvanized steel 3" to 7" elbows are press formed. Press formed halves are stitch welded together with rolled ends. Stainless steel 3" to 6" elbows are tubed.

Ends: Angle Flange (ANGFL) - Nordfab Angle Flange is industry standard angle flange with pre-drilled holes. See 3261 QF Angle Flange Technical Data sheet for dimensions and hole pattersn.

Collars: Collar is located on the exterior side of each port and considered as air flow non-directional. Collars have a laser welded longitudinal seam (exception: 3" collars are lapped, spot welded, and caulked.) If air flow directional product is required, it must be stated on the PO and additional cost may be incurred. A raised lap seam and spot weld are used for attaching the collar to the body and no caulking is used. If caulking is required, additional cost is incurred.

Notes:

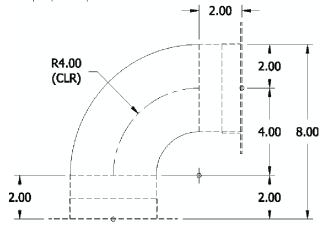
Long Radius Elbows available with 1.5 CLR.

Size 8" to 40" elbows are gored - see 3211 Gored Elbows, Angle Flanged Technical Data Sheet

Height of 90° elbows can be calculated:

(Elbow diameter X CLR) + length of one tangent + 1/2 diameter

Example: $(4" \times 1.0) + 2 + 2 = 8$



Example shown: 4" 90° Elbow 1.0 CLR = 4"



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	Temperature Rating of Product Components							
°F	QF Press Formed Elbows		Sealants Sealants					
-60°				Optional -				
-40° 0° 194°	Galvanized Steel	Optional -	3M Scotch Seal Metal Sealant 2084	3M Polyurethane Adhesive Sealant 540	Optional - Rock River Silicone Sealant	Optional - Red Devil HVAC/R High Temperature	Optional - Epoxy - 3M DP 125 Gray Sealant	
250° 390°		30433				Silicone Sealant		
500°								
1100°								

Additional N	lotes

DATA

At temperatures ranging between 390° F and 480° F, the zinc-iron alloy layers in galvanized steel will continue to provide a high level of protection from corrosion. However, there may be some peeling, changes in mechanical properties, and reduction in the corrosion protection. Recommended max. service temperature is 390° F.

Rock River Silicone Sealant and Red Devil HVAC/R High Temperature Silicone Sealant are not paintable

304SS:

- 3" caulking on collared seam only
- bluing may occur at 800° F and above

Compliance / Rating of Product Components			
Product	Material	Compliance / Rating	
QF Press Formed Elbows	Galvanized	ASTM A527 with a G-90 rating	
	304SS	Finish meets ASTM A240	
	316SS	Finish meets ASTM A240	
3M Scotch Seal Metal Sealant 2084	Acetone blend	AAMA Specification 801.1	
3M Polyurethane Sealant 540	Polyurethane	ASTM E 162, ASTM E 662, Bombardier SP 800-C	
Rock River Sealant	100% Silicone	ASTM C920 Class 25, TT-S-00230C Class A and TT-S-001543A, FDA No 421 CFR 117.2600, conforms to FDA requirements	
Red Devil HVAC/R High Temperature Sealant	Silicone	ASTM C920 Class 25, TT-S-00230C Class A and TT-S-001543A, CEBTP 432.6 140-2, Mil Spec 46106A, CGSB 19C9-9B, DIN 18540 Part 2, OREX 150031-2	

