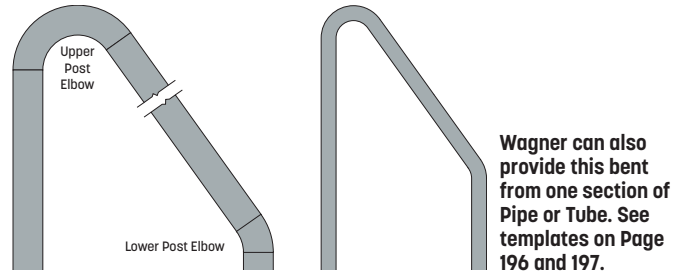
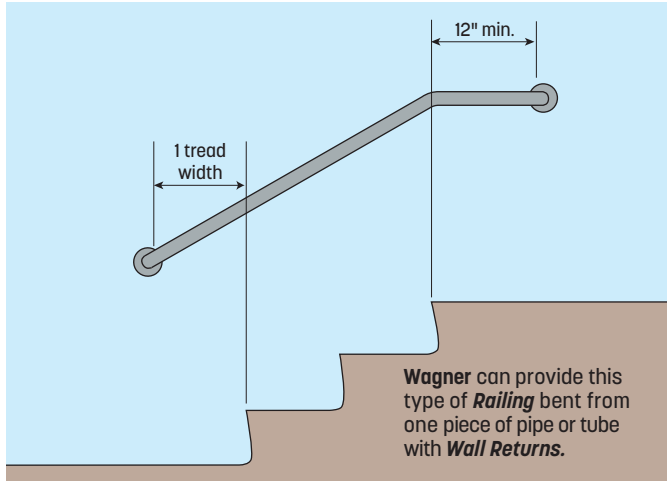
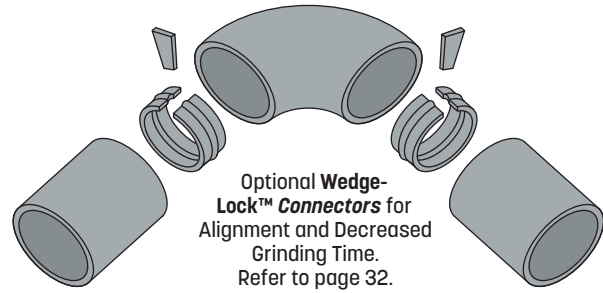


**2010 ADA Standards for Accessible Design (ADASAD)**

The ADASAD has specific requirements regarding a **Handrail**. The detail below is a typical wall mount application. The **Railing** must extend 12" beyond the top tread nosing and a tread depth at the bottom of the stairs. For more information on these and other code requirements, refer to page 226.



**Note:** Upper Post Elbow Angle + Lower Post Elbow Angle = 180°



**90° Elbow**

Pipe Size	OD	Wall Thick.	STEEL	ALUMINUM	STAINLESS
1"	1.315"	.133"	214*	228	
1"	1.315"	.133"	214-S		271-S
1.50"	.065"	7906		7938	
1.50"	.120"	7906.120	7922	7938.120 <sup>4</sup>	
1.625"	.065"			7938T	
1.625"	.120"	7906T			
1 1/4"	1.66"	.140"	268*		
1 1/4"	1.66"	.140"	268-S	292	317
1 1/2"	1.90"	.145"	340*		
1 1/2"	1.90"	.145"	340-S	364	389
2.00"	.120"	7956	7972	7988	
2"	2.375"	.134"	402*	418*	433* <sup>1</sup>

<sup>4</sup> Available from stock with a satin finish - order 7938.120.4.

**125° Elbow**

*Cut to order. Ship within 48 hours.*

Pipe Size	OD	Wall Thick.	STEEL	ALUMINUM
1.50"	.065"	7909		
1.50"	.120"	7909.120		
1 1/4"	1.66"	.140"	269-4	293-4
1 1/2"	1.90"	.145"	341-4	365-4
2.00"	.120"	7959		

**135° Elbow**

*Cut to order. Ship within 48 hours.*

Pipe Size	OD	Wall Thick.	STEEL	ALUMINUM
1 1/4"	1.66"	.140"	269-5	293-5
1 1/2"	1.90"	.145"	341-5	365-5

**90° Elbow with One 2" Tangent**

*Cut to order. Ship within 48 hours.*

Pipe Size	OD	Wall Thick.	STEEL	ALUMINUM	STAINLESS
1"	1.315"	.133"	214-1	228-1	
1.50"	.065"	7907		7939	
1.50"	.120"	7907.120	7923	7939.120	
1.625"	.065"			7939T	
1 1/4"	1.66"	.140"	269-3	293-3	317-1
1 1/2"	1.90"	.145"	341-3	365-3	389-1
2.00"	.120"	7957	7973	7989	

**180° Elbow**

*Cut to order. Ship within 48 hours.*

Pipe Size	OD	Wall Thick.	STEEL	ALUMINUM	STAINLESS
1.50"	.065"	7912			
1.50"	.120"	7912.120	7928	7944.120	
1.625"	.065"			7944T	
1 1/4"	1.66"	.140"	269-2	293-2	
1 1/2"	1.90"	.145"	341-2	365-2	
2.00"	.120"	7962	7978	7994	

**90° Elbow with Two 2" Tangents**

Pipe Size	OD	Wall Thick.	STEEL	ALUMINUM	STAINLESS
1"	1.315"	.133"	214-2	228-2	271-S2
1.50"	.065"	7908		7940	
1.50"	.120"	7908.120	7924	7940.120	
1.625"	.065"			7940T	
1 1/4"	1.66"	.140"	269-7	293-7	317-3
1 1/2"	1.90"	.145"	341-7	365-7	389-3
2.00"	.120"	7958	7974	7990	

**180° Elbow with Two 2" Tangents**

Pipe Size	OD	Wall	STEEL	ALUMINUM	STAINLESS
1"	1.315"	.133"	217 <sup>o</sup>	233 <sup>o</sup>	271-S3
1.50"	.065"			7945 <sup>o</sup>	
1.50"	.120"			7929 <sup>o</sup>	7945.120 <sup>o</sup>
1 1/4"	1.66"	.140"	269-6 <sup>o</sup>	293-6 <sup>o</sup>	317-2
1 1/2"	1.90"	.145"	341-6 <sup>o</sup>	365-6 <sup>o</sup>	389-4 <sup>o</sup>
2.00"	.120"	7963 <sup>o</sup>	7979 <sup>o</sup>	7995 <sup>o</sup>	

<sup>o</sup> Available with two untrimmed tangents. Add a **B** at the end of the number when ordering

STANDARD PRODUCTS

RAILING SYSTEMS

TRADITIONAL RAILING

CUSTOM SERVICES

APPENDIX