Interna-Rail®



Handrail systems utilizing Interna-Rail "in-line" fittings provide a sleek architectural finish with anodized fittings and aluminum pipe. Interna-Rail has the clean look of welded rail with all the benefits of a mechanical system. Interna-Rail systems can be designed to meet any building code and are constructed of anodized aluminum and stainless steel hardware for corrosion resistance. Systems are shipped either completely assembled in panels, or sub assembled - posts assembled with fittings, pipe shipped separately for final assembly on site.



10285 Wayne Ave. • Cincinnati, OH 45215-6399 (p) 800.772.8800 • (f) 800.772.8806 www.hollaender.com

Tools Needed:

- Tape Measure
- Chalk Line
- Portable Chop Saw
- Apex Bit Holder with 3/16" Bit
- 3/8" Ratchet
- Drill with 27/64" Drill Bit



A Rivet Nut Tool is also necessary to fabricate Interna-Rail. A wide range

of these tools are available, please contact us at Hollaender to determine which is best suited for your particular application.

Section A Interna-Rail Components





10285 Wayne Ave. • Cincinnati, OH 45215-6399 (p) 800.772.8800 • (f) 800.772.8806 www.hollaender.com

Interna-Rail®

Section B

Post Assembly Details





Section B

Post Assembly Details



r Handrail S

www.hollaender.com

10285 Wayne Ave. • Cincinnati, OH 45215-6399 (p) 800.772.8800 • (f) 800.772.8806



10285 Wayne Ave. • Cincinnati, OH 45215-6399 (p) 800.772.8800 • (f) 800.772.8806 www.hollaender.com

Interna-Rail®

Section B

Post Assembly Details





10285 Wayne Ave. • Cincinnati, OH 45215-6399 (p) 800.772.8800 • (f) 800.772.8806 www.hollaender.com

Interna-Rail®

Section B

Post Assembly Details





10285 Wayne Ave. • Cincinnati, OH 45215-6399 (p) 800.772.8800 • (f) 800.772.8806 www.hollaender.com

Interna-Rail®

Section C

Fitting Attachment Details – Level Handrail







Same procedure to be used when attaching post to top rail



10285 Wayne Ave. • Cincinnati, OH 45215-6399 (p) 800.772.8800 • (f) 800.772.8806 www.hollaender.com

Interna-Rail®

Section C

Fitting Attachment Details – Sloping Handrail with 170/171/172





Same procedure to be used when attaching post to top rail



10285 Wayne Ave. • Cincinnati, OH 45215-6399 (p) 800.772.8800 • (f) 800.772.8806 www.hollaender.com

Interna-Rail®

Section C

Fitting Attachment Details – Sloping Handrail with 173/174







Same procedure to be used when attaching posts to top rails



10285 Wayne Ave. • Cincinnati, OH 45215-6399 (p) 800.772.8800 • (f) 800.772.8806 www.hollaender.com

Interna-Rail®

Section D







10285 Wayne Ave. • Cincinnati, OH 45215-6399 (p) 800.772.8800 • (f) 800.772.8806 www.hollaender.com

Interna-Rail®

Section D

Trim Cutting & Drilling







10285 Wayne Ave. • Cincinnati, OH 45215-6399 (p) 800.772.8800 • (f) 800.772.8806 www.hollaender.com

Interna-Rail®

Section D

Trim Cutting & Drilling





10285 Wayne Ave. • Cincinnati, OH 45215-6399 (p) 800.772.8800 • (f) 800.772.8806 www.hollaender.com

Interna-Rail®

Section D

Trim Cutting & Drilling







10285 Wayne Ave. • Cincinnati, OH 45215-6399 (p) 800.772.8800 • (f) 800.772.8806 www.hollaender.com

Interna-Rail®

Section D

Trim Cutting & Drilling with 170/171/172

Α	В	Х	С	
12 [°]	.174	.201	2.22	
14 [°]	.138	.256	2.23	
16°	.102	.272	2.24	
18°	.066	.308	2.25	575
20 [°]	.029	•345	2.26	
22 [°]	.008	.383	2.27	
24 [°]	.047	.442	2.28	
26°	.088	.463	2.30	
28°	.130	.505	2.32	
30°	.173	.548	2.34	
32°	.218	•593	2.37	
34 [°]	.265	.640	2.39	
36°	.315	.690	2.42	
38°	.367	.742	2.45	
40°	.422	.797	2.49	
42 [°]	.480	.855	2.52	
	.542	.917	2.57	

X - Variation on intersecting centerlines



10285 Wayne Ave. • Cincinnati, OH 45215-6399 (p) 800.772.8800 • (f) 800.772.8806 www.hollaender.com

Interna-Rail®

Section D

Trim Cutting & Drilling with 173/174

