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Intermediate Metal Conduit Elbow

90 Degree Type

ELECMAN® Intermediate Metal Conduit Elbow is a manufactured curved section of IMC conduit threaded on each end.

Material:

Carbon steel

Type:

90 degree

Surface Finish:

Hot-dip galvanized:

Involves dipping the steel conduit in molten zinc, which creates a thick, durable coating.

Zinc coating:

- 1. Magnetic test in accordance with ASTM B 499.
- 2.Copper sulfate test (Preece Test) in accordance with ASTM A 239. Material will withstand four 1-minute immersions.
- 3. The zinc coating thickness is more than 40 µm.

Certification & Standard

Certification:

Manufactured to Underwriters Laboratory Safety Standards UL 1242

UL File No.: E542214

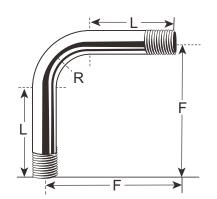


Standard:

Manufactured in accordance with ANSI C80.6

Welding:

The welding of all seams is continuous and done in a workmanlike manner.



Catalog Number			Minimum Radius (R) ¹ to Center of Conduit	Minimum Straight Length (L) at Each End	Offset (F) ²
	in.	mm	mm	mm	mm
IEN050	1/2''	16	102	38.10	149
IEN075	3/4''	21	114	38.10	178
IEN100	1''	27	146	47.63	222
IEN125	1 1/4''	35	184	50.80	273
IEN150	1 1/2''	41	210	50.80	311
IEN200	2''	53	241	50.80	368
IEN250	2 1/2''	63	267	76.20	432
IEN300	3''	78	330	79.38	498
IEN325	3 1/2''	91	381	82.55	578
IEN400	4''	103	406	85.73	606

¹Mimimum requirement as per UL Standard



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Thread and Chamfer:

- 1. Each length of elbow is threaded on both ends, the standard of the threads is NPT.
- 2. The number of threads per inch (threads per 25.4 mm), and the length of the threaded portion at each end of each length of conduit is as indicated in Table 1, and conform to ANSI/ASME B1.20.1. The thread is tapered for its entire length, and the taper is about 1 in 16.
- 3. Threads are treated with a protective coating to prevent corrosion.
- 4. Both ends are chamfered to remove burrs and sharp edges.

Trade Size		Threads Per	Pitch diameterat end ofthread E_{ot} taper 62.5	Length of Thread (mm)	
in.	mm	25.4 mm.	mm. per meter ^b	Effective L ₂	Overall L4 ^a
1/2''	16	14	19.3	13.5	19.8
3/4''	21	14	24.6	14.0	20.1
1''	27	11 1/2	30.8	17.3	24.9
1 1/4"	35	11 1/2	39.5	18.0	25.7
1 1/2"	41	11 1/2	45.6	18.3	26.2
2''	53	11 1/2	57.6	19.3	26.9
2 1/2"	63	8	69.1	29.0	39.9
3''	78	8	84.9	30.5	41.4
3 1/2"	91	8	97.5	31.8	42.7
4''	103	8	110.1	33.0	43.9
5''	129	8	136.9	35.8	46.7
6''	155	8	163.7	38.4	49.5

Tabel 1 - Dimensions of Threads for IMC Conduit Elbow

6''	155						
pplicable Tolerance:							

Thread length(L4): ±1 thread, recommended practice +0, -1 ^bPitch diameter: ± turn is the maximum variation permitted from the guaging face of the working thread gauges

Dimensions:

The dimensions of IMC elbow 90 degree are in accordance with Table 2.

Tabel 2 - Dimensions of IMC Elbow 90 Degree

²For information only, not a requirement as per UL Standard