Ladder, Ventilated and Solid Trough

Straight Section Number Selection

(AH5-4)-24-L09-144

Material	Style	Series	Siderail Depth	Width	Bottom Type	Length
A • Aluminum	H • H-Beam	3 • Series 3 4 • Series 4 5 • Series 5	4 • (4")	06 • (6") 09 • (9") 12 • (12") 18 • (18") 24 • (24") 30 • (30") 36 • (36")	L06 • 6" rung spacing L09 • 9" rung spacing L12 • 12" rung spacing V • Ventilated S • Solid Trough	144 • (12ft) 288 • (24ft) 3 • (3 meters) 6 • (6 meters)

Technical Specifications

All calculations and data are based on 36" wide cable trays with rungs spaced on 12" centers with tray supported as simple spans with deflection measured at the midpoint. Continuous spans may reduce deflection by as much as 50%.

Deflection factor

For lighter loads, deflection at any length can be calculated by multiplying the load by the deflection factor.

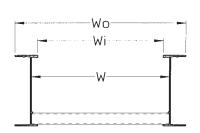
For Fittings consult pages 60 to 99.

		SUPPORT SPAN (Feet)							
SERIES		6	8	10	12	14	16	18	20
<i>H3-4</i>	Load (lb/ft)	522	294	188	131	96	73	58	47
<i>АПЭ-4</i>	Deflection (in.)	0.477	0.849	1.326	1.909	2.599	3.395	4.296	5.304
	Deflection Factor	0.001	0.003	0.007	0.015	0.027	0.046	0.074	0.113
<i>H4-4</i>	Load (lb/ft)	589	331	212	147	108	83	65	53
	Deflection (in.)	0.441	0.785	1.226	1.766	2.403	3.139	3.973	4.905
	Deflection Factor	0.001	0.002	0.006	0.012	0.022	0.038	0.061	0.092
IUE A	Load (lb/ft)	867	488	312	217	159	122	96	78
A <i>H5-4</i>	Deflection (in.)	0.505	0.898	1.403	2.021	2.751	3.593	4.547	5.614
	Deflection Factor	0.001	0.002	0.004	0.009	0.017	0.029	0.047	0.072

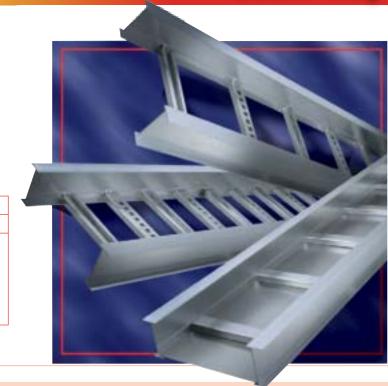
4" Straight Sections Series 3-4, 4-4, 5-4

Ladder, Ventilated and Solid Trough

Aluminum Cable Tray



	AH3-4		AH4	-4	AH5-4		
W (in.)	Wo (in.)	Wi (in.)	Wo (in.)	Wi (in.)	Wo (in.)	Wi (in.)	
6	8.38	4.88	8.41	4.91	8.38	4.88	
9	11.38	7.88	11.41	7.91	11.38	7.88	
12	14.38	10.88	14.41	10.91	14.38	10.88	
18	20.38	16.88	20.41	16.91	20.38	16.88	
24	26.38	22.88	26.41	22.91	26.38	22.88	
30	32.38	28.88	32.41	28.91	32.38	28.88	
36	38.38	34.88	38.41	34.91	38.38	34.88	



Technical Specifications

LOAD RATINGS

1.5 Safety factor. All tray sections will support an additional 200 lb concentrated load on any portion of tray (siderail, rung, etc.) above and beyond published load class.

SERIES	DIMENSIONS	SIDERAIL DESIGN FACTORS • 1 PAIR	CLASSIFICATIONS NEMA CSA	UL
AH3-4	-1.75- 4.12 3.02	Ix = 3.19 in ⁴ Sx = 1.41 in ³ Area = 1.22 in ²	12C,16A D/6m	UL Cross Sectional Area: 1.00 in ²
AH4-4	-1.75- 4.19 3.08	Ix = 3.89 in ⁴ Sx = 1.75 in ³ Area = 1.40 in ²	20A,16B E/3m	UL Cross Sectional Area : 1.00 in ²
AH5-4	-1.75- 4.24 3.11	Ix = 5.00 in ⁴ Sx = 2.24 in ³ Area = 1.76 in ²	20B,16C E/6m	UL Cross Sectional Area : 1.50 in ²