

# Husky I-Beam Ventilated and Solid Bottom Trough

Selection Tables	Pg. 6.2
Alum. Vent. Numbering System	Pg. 6.3
Alum. Vent. Loading Tables	Pgs. 6.4-6.5
Alum. Solid Numbering System	Pg. 6.6
Alum. Solid Loading Tables	Pgs. 6.7-6.8

*Aluminum*



## SELECTION TABLES

Aluminum I-Beam Tray						
NEMA Class	NEMA Load(lbs.)/Span (ft.)	Tray Height	Load Depth	Top Flange Width	Prefix Vent Bottom	Prefix Solid Bottom
<b>12B</b>	75/12	6-1/4	5-1/4	2	AIMC	ASIMC
<b>12C</b>	100/12	6-1/4	5-1/4	2	AIMC	ASIMC
<b>20B</b>	75/20	4-1/2 6	3-1/2 5	2 2	AIYC AIXB	ASIYC ASIXB
<b>20C</b>	100/20	4-1/2 6	3-1/2 5	2 2	AIYC AIXC	ASIYC ASIXC
<b>20C+</b>	100+/20	6	5	3-1/2	AI6	ASI6
<b>24C+</b>	100+/24	6	5	3-1/2	AI6	ASI6
<b>30C+</b>	100+/30	8	7	3	AI8	ASI8

With a corrugated bottom that is 3 times stronger and 21 times stiffer than 14 GA. flat sheet bottoms.

Husky I-Beam Trough is the tray of choice for instrumentation, data transmission, and control cables.



I-BEAM TROUGH

For more information or to order, call 1-800-277-4810 or visit [www.mphusky.com](http://www.mphusky.com).

864.234.4800  
mphusky.com

## Aluminum Ventilated Trough Numbering System

A4I8-36-288				
A	( )	I8-	36-	288
Material	Bottom	Tray Type	Width in Inches	Length in Inches
<b>Materials:</b> A=Aluminum	<b>Bottom</b> 4 (4" Rung Spacing) Leave blank for 6-24" wide ventilated trough Insert "4" for 4" rung spacing	<b>Tray Types:</b> IYC IMC IXB IXC I6 I8	<b>Widths:</b> 6 9 12 18 24 30 36	<b>Lengths:</b> IMC available in 10' (120") & 12' (144") only All others available in 10' (120"), 12' (144"), 20' (240") & 24' (288") I8 only available 30' (360")

### Other Technical Data



**Depth:**

4-1/2, 6 & 8

**Fittings:**

12, 24 & 36 inch radius

**Trough Bottoms:**

Corrugation on 6-24 inch wide, 4 inch rung spacing on 30 & 36 inch wide

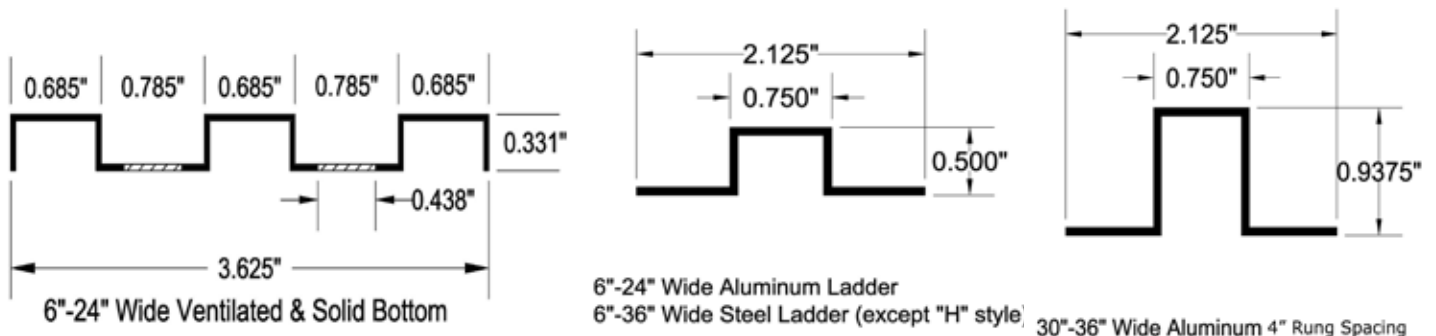
**Splice Plates:**

Bolted Splice Plates

**Safety Factor:** 1.5

*(For other tray sizes or specifications, please consult the factory)*

### Bottom Dimensions

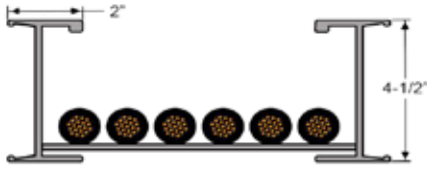


I-BEAM TROUGH

**A IYC** 6-24 in only  
Use AIYC fittings

**A 4 IYC** 30 & 36 in only  
Use A4IYC fittings

**NEMA 20C, 16C, 12C**

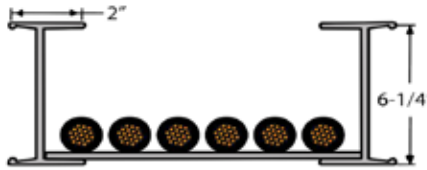


Span (ft.)	12		14		16		18		20	
Width (in.)	Load	Defl	Load	Defl	Load	Defl	Load	Defl	Load	Defl
6	278	1.99	204	2.70	156	3.53	123	4.47	100	5.52
9	278	1.99	204	2.70	156	3.53	123	4.47	100	5.52
12	278	1.99	204	2.70	156	3.53	123	4.47	100	5.52
18	229*	1.64	204	2.70	156	3.53	123	4.47	100	5.52
24	171*	1.22	171*	2.26	156	3.53	123	4.47	100	5.52
30	278	1.99	204	2.70	156	3.53	123	4.47	100	5.52
36	278	1.99	204	2.70	156	3.53	123	4.47	100	5.52

**A IMC** 6-24 in only Use AIMC fittings  
U

**A 4 IMC** 30 & 36 in only  
Use A4IMC fittings

**NEMA 12C**

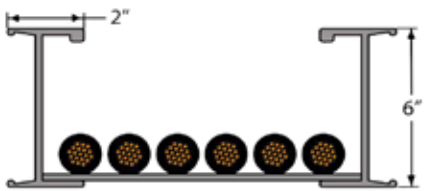


Span (ft.)	4		6		8		10		12	
Width (in.)	Load	Defl	Load	Defl	Load	Defl	Load	Defl	Load	Defl
6	675*	0.09	424	0.15	239	0.27	153	0.42	106	0.06
9	457*	0.03	424	0.15	239	0.27	153	0.42	106	0.06
12	343*	0.02	343*	0.12	239	0.27	153	0.42	106	0.06
18	229*	0.02	229*	0.08	229	0.26	153	0.42	106	0.06
24	171*	0.01	171*	0.06	171*	0.19	153	0.42	106	0.06
30	954	0.07	424	0.15	239	0.27	153	0.42	106	0.06
36	940*	0.07	424	0.15	239	0.27	153	0.42	106	0.06

**A IXB** 6-24 in only  
Use AIXB fittings

**A 4 IXB** 30 & 36 in only  
Use A4IXB fittings

**NEMA 20B, 16C, 12C**

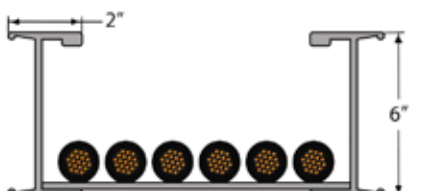


Span (ft.)	12		14		16		18		20	
Width (in.)	Load	Defl	Load	Defl	Load	Defl	Load	Defl	Load	Defl
6	208	0.88	153	1.19	117	1.56	93	1.97	75	2.43
9	208	0.88	153	1.19	117	1.56	93	1.97	75	2.43
12	208	0.88	153	1.19	117	1.56	93	1.97	75	2.43
18	208	0.88	153	1.19	117	1.56	93	1.97	75	2.43
24	171*	0.72	153	1.19	117	1.56	93	1.97	75	2.43
30	208	0.88	153	1.19	117	1.56	93	1.97	75	2.43
36	208	0.88	153	1.19	117	1.56	93	1.97	75	2.43

**A IXC** 6-24 in only  
Use AIXC fittings

**A 4 IXC** 30 & 36 in only  
Use A4IXC fittings

**NEMA 20C, 16C, 12C**



Span (ft.)	12		14		16		18		20	
Width (in.)	Load	Defl	Load	Defl	Load	Defl	Load	Defl	Load	Defl
6	278	1.07	204	1.45	156	1.90	123	2.40	100	2.96
9	278	1.07	204	1.45	156	1.90	123	2.40	100	2.96
12	278	1.07	204	1.45	156	1.90	123	2.40	100	2.96
18	229*	0.88	204	1.45	156	1.90	123	2.40	100	2.96
24	171*	0.66	171*	1.26	156	1.90	123	2.40	100	2.96
30	278	1.07	204	1.45	156	1.90	123	2.40	100	2.96
36	278	1.07	204	1.45	156	1.90	123	2.40	100	2.96

I-BEAM TROUGH

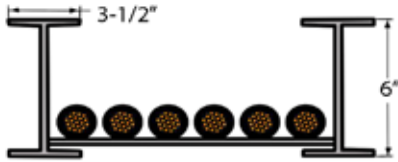
**A I6**

Use AI6 fittings

**A 4 I6**

Use A4I6 fittings

**NEMA 24C+, 20C+**



Span (ft.)	12		16		20		22		24	
Width (in.)	Load	Defl	Load	Defl	Load	Defl	Load	Defl	Load	Defl
9	457*	1.36	277	2.25	177	3.52	146	4.26	123	5.07
12	343*	1.02	277	2.25	177	3.52	146	4.26	123	5.07
18	229*	0.68	229*	1.86	177	3.52	146	4.26	123	5.07
24	171*	0.01	171*	1.39	171*	3.40	146	4.26	123	5.07
30	492	1.26	277	2.25	177	3.52	146	4.26	123	5.07
36	492	1.26	277	2.25	177	3.52	146	4.26	123	5.07

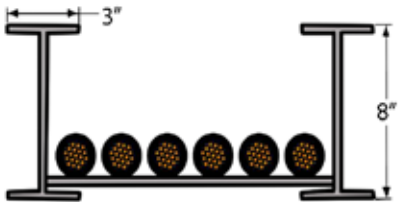
**A I8**

Use AI8 fittings

**A 4 I8**

Use A4I8 fittings

**NEMA 30C+, 24C+**



Span (ft.)	12		16		20		24		30	
Width (in.)	Load	Defl	Load	Defl	Load	Defl	Load	Defl	Load	Defl
9	457*	0.41	411	1.17	263	1.82	183	2.62	117	4.10
12	343*	0.31	343*	0.98	263	1.82	183	2.62	117	4.10
18	229*	0.21	229*	0.65	229*	1.59	183	2.62	117	4.10
24	171*	0.15	171*	0.49	171*	1.18	171*	2.45	117	4.10
30	732	0.66	411	1.17	263	1.82	183	2.62	117	4.10
36	722*	0.65	411	1.17	263	1.82	183	2.62	117	4.10

**Example:**

Part # <b>A4I8-36-288</b>				
<b>A</b>	<b>( )</b>	<b>I8-</b>	<b>36-</b>	<b>144</b>
<b>Tray Type</b>	<b>Bottom</b>	<b>Tray Type</b>	<b>Width in Inches</b>	<b>Length in Inches</b>

**USE COLOR CODING TO ASSEMBLE PART NUMBER**

I-BEAM TROUGH

## Aluminum Solid Bottom Trough Numbering System

ASIMC-18-144-06C					
A	S	IMC-	18-	144	-06C
Material	Bottom	Tray Type	Width in Inches	Length in Inches	For 30" & 36" Wide Only
<b>Materials:</b> A=Aluminum	<b>Bottom</b> S= Solid Bottom	<b>Tray Types:</b> IYC IMC IXB IXC I6 I8	<b>Widths:</b> 6 9 12 18 24 30 36	<b>Lengths:</b> IMC available in 10' (120") & 12' (144") only All others available in 10' (120"), 12' (144"), 20' (240") & 24' (288") I8 only available 30' (360")	Add (-06C) to 30 & 36 in Wide Only

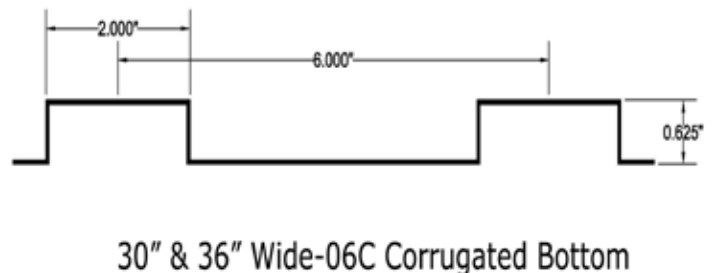
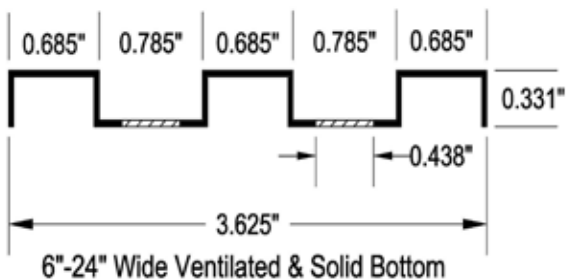
### Other Technical Data



- Depth:**  
4-1/2", 6" & 8"
- Fittings:**  
12", 24" & 36" Radius
- Trough Bottoms:**  
Corrugated Solid Bottom
- Splice Plates:**  
Bolted Splice Connectors
- Safety Factor:** 1.5

**(For other tray sizes or specifications, please consult the factory)**  
 Please see Section 7 (Husky Way) for our other solid bottom tray design.

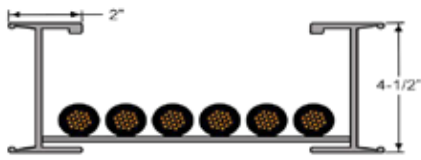
### Bottom Dimensions



I-BEAM TROUGH

**A S IYC** Use ASIYC fittings

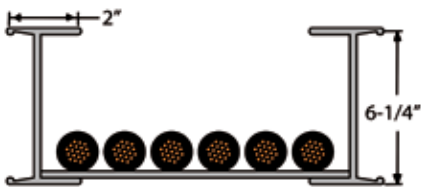
NEMA 20C, 16C, 12C



Span (ft.)	12		14		16		18		20	
Width (in.)	Load	Defl	Load	Defl	Load	Defl	Load	Defl	Load	Defl
9	278	1.99	204	2.70	156	3.53	123	4.47	100	5.52
12	278	1.99	204	2.70	156	3.53	123	4.47	100	5.52
18	229*	1.64	204	2.70	156	3.53	123	4.47	100	5.52
24	171*	1.22	171*	2.26	156	3.53	123	4.47	100	5.52
30	278	1.99	204	2.70	156	3.53	123	4.47	100	5.52
36	278	1.99	204	2.70	156	3.53	123	4.47	100	5.52

**A S IMC** Use ASIMC fittings

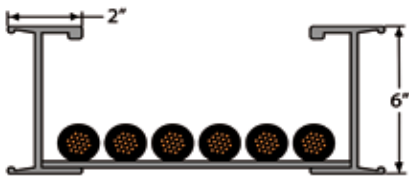
NEMA 12C



Span (ft.)	4		6		8		10		12	
Width (in.)	Load	Defl	Load	Defl	Load	Defl	Load	Defl	Load	Defl
9	457*	0.03	424	0.15	239	0.27	153	0.42	106	0.06
12	343*	0.02	343*	0.12	239	0.27	153	0.42	106	0.06
18	229*	0.02	229*	0.08	239	0.27	153	0.42	106	0.06
24	171*	0.01	171*	0.06	171*	0.19	153	0.42	106	0.06
30	866*	0.02	424	0.15	239	0.27	153	0.42	106	0.06
36	722*	0.02	424	0.15	239	0.27	153	0.42	106	0.06

**A S IXB** Use ASIXB fittings

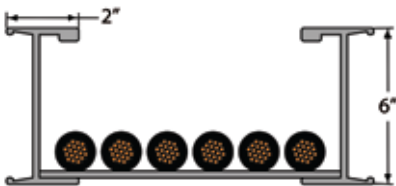
NEMA 20B, 16C



Span (ft.)	12		14		16		18		20	
Width (in.)	Load	Defl	Load	Defl	Load	Defl	Load	Defl	Load	Defl
9	208	0.88	153	1.19	117	1.56	93	1.97	75	2.43
12	208	0.88	153	1.19	117	1.56	93	1.97	75	2.43
18	208	0.88	153	1.19	117	1.56	93	1.97	75	2.43
24	171*	0.72	153	1.19	117	1.56	93	1.97	75	2.43
30	208	0.88	153	1.19	117	1.56	93	1.97	75	2.43
36	208	0.88	153	1.19	117	1.56	93	1.97	75	2.43

**A S IXC** Use ASIXC fittings

NEMA 20C, 16C



Span (ft.)	12		14		16		18		20	
Width (in.)	Load	Defl	Load	Defl	Load	Defl	Load	Defl	Load	Defl
9	278	1.07	204	1.45	156	1.90	123	2.40	100	2.96
12	278	1.07	204	1.45	156	1.90	123	2.40	100	2.96
18	229*	0.88	204	1.45	156	1.90	123	2.40	100	2.96
24	171*	0.66	177*	1.26	156	1.90	123	2.40	100	2.96
30	278	1.07	204	1.45	156	1.90	123	2.40	100	2.96
36	278	1.07	204	1.45	156	1.90	123	2.40	100	2.96

I-BEAM TROUGH

Example:

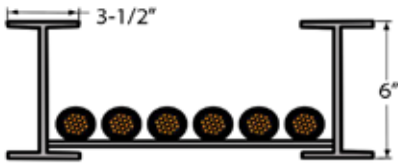
Part # ASIMC-24-144				
A	S	IMC-	24-	144
Material	Bottom	Tray Type	Width in Inches	Length in Inches

USE COLOR CODING TO ASSEMBLE PART NUMBER

**A S I6**

Use ASI6 fittings

**NEMA 24C+, 20C+**

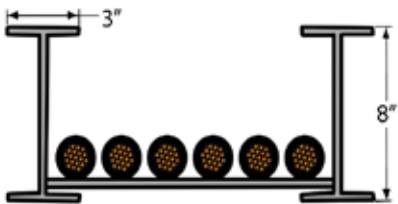


Span (ft.)	12		16		20		22		24	
Width (in.)	Load	Defl	Load	Defl	Load	Defl	Load	Defl	Load	Defl
9	457	1.26	277	2.25	177	3.52	146	4.26	123	5.07
12	343*	1.02	277	2.25	177	3.52	146	4.26	123	5.07
18	229*	0.68	229*	1.86	177	3.52	146	4.26	123	5.07
24	171*	1.01	171*	1.39	171*	3.40	146	4.26	123	5.07
30	492	1.26	277	2.25	177	3.52	146	4.26	123	5.07
36	492	1.26	277	2.25	177	3.52	146	4.26	123	5.07

**A S I8**

Use ASI8 fittings

**NEMA 30C+, 24C+**



Span (ft.)	12		16		20		24		30	
Width (in.)	Load	Defl	Load	Defl	Load	Defl	Load	Defl	Load	Defl
9	457*	0.41	411	1.17	263	1.82	183	2.62	117	4.10
12	343*	0.31	343*	0.98	263	1.82	183	2.62	117	4.10
18	229*	0.21	229*	0.65	229*	1.59	183	2.62	117	4.10
24	171*	0.15	171*	0.49	171*	1.18	171*	2.45	117	4.10
30	732	0.66	411	1.17	263	1.82	183	2.62	117	4.10
36	722*	0.65	411	1.17	263	1.82	183	2.62	117	4.10