

# Aluminum Columns

## Column Load Ratings Help Sheet



Model	Size	Length	Tested Height	ASD Capacity (Allowable Axial Loads)	Average Ultimate Load
Round Fluted	6"	8' & 9'	9'	4,338 lbf	12,776 lbf
Round Fluted	8"	8' & 9'	9'	3,524 lbf	18,724 lbf
Round Fluted	10"	8', 9', & 10'	10'	7,544 lbf	25,227 lbf
Square Fluted	6"	8' & 9'	9'	3,705 lbf	13,487 lbf
Square Fluted	8"	8' & 9'	9'	6,025 lbf	22,455 lbf
Square Fluted	10"	8', 9', & 10'	10'	6,053 lbf	18,244 lbf
Square Smooth	6"	8' & 9'	9'	4,013 lbf	12,340 lbf
Square Smooth	8"	8' & 9'	9'	5,236 lbf	19,461 lbf
Square Smooth	8"	10'	10'	4,762 lbf	16,184 lbf
Square Smooth	10"	8' & 9'	9'	5,796 lbf	20,192 lbf
Square Smooth w/Astragal	6"	8' & 9'	9'	4,013 lbf	12,340 lbf
Square Smooth w/Astragal	8"	8' & 9'	9'	5,236 lbf	19,461 lbf
Square Smooth w/Astragal	8"	10'	10'	4,762 lbf	16,184 lbf
Square Smooth w/Astragal	10"	8' & 9'	9'	5,796 lbf	20,192 lbf
Square Recessed	6"	8' & 9'	9'	5,184 lbf	15,584 lbf
Square Recessed	8"	8' & 9'	9'	4,140 lbf	27,563 lbf

**ASD Capacity** = Weight values are Actual Calculated Allowable Loads

**Average Ultimate Load** = Safety factors have not been applied to this value.

Columns tested with load off center (equal to 1/6" the width of the column)

For an official stamped copy of testing results please contact DSI Product Manager or DSI Technical Services

# Composite & Fiberglass Columns

## Column Load Ratings Help Sheet



**DSI Columns®**  
COMPOSITE AND FIBERGLASS

Model	Size	Length	Tested Height	Ultimate Load
<b>Square Smooth Composite Columns were tested using Concentric Loading</b>				
Composite Square Smooth	6"	8' & 9'	9'	40,000 lbf
Composite Square Smooth	8"	8', 9', & 10'	10'	44,000 lbf
Composite Square Smooth	10"	8', 9', & 10'	10'	40,000 lbf
Composite Square Smooth	12"	8', 9', 10', & 12'	12'	61,000 lbf
<b>Round Smooth Tapered Composite Columns were tested using Concentric Loading</b>				
Composite Round Smooth Tapered	6"	6', 7', & 8'	8'	41,000 lbf
<b>Round Smooth Tapered larger than 6" Composite Columns were tested using Eccentric Loading</b>				
Composite Round Smooth Tapered	8"	8'	8'	27,000 lbf
Composite Round Smooth Tapered	8"	9'	9'	27,000 lbf
Composite Round Smooth Tapered	8"	10'	10'	22,000 lbf
Composite Round Smooth Tapered	10"	8'	8'	25,000 lbf
Composite Round Smooth Tapered	10"	9'	9'	43,000 lbf
Composite Round Smooth Tapered	10"	10'	10'	38,000 lbf
Composite Round Smooth Tapered	12"	8'	8'	32,000 lbf
Composite Round Smooth Tapered	12"	9'	9'	36,000 lbf
Composite Round Smooth Tapered	12"	10'	10'	50,000 lbf
<b>Herculite Square Smooth Pultruded Fiberglass Columns were tested using Eccentric Loading</b>				
Fiberglass Herculite Square Smooth	8"	8', 9', & 10'	10'	28,829 lbf
Fiberglass Herculite Square Smooth	10"	8', 9', & 10'	10'	28,160 lbf
Fiberglass Herculite Square Smooth	12"	8', 9', 10', & 12'	12'	39,303 lbf

**Ultimate Load** = Safety factors have not been applied to this value.



Transforming the Outdoor Living Experience™

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**LANSING**  
BUILDING PRODUCTS