

# Filament Wound or Spun Cast? You Decide.

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At North Pacific Composites, we are committed to providing the highest quality column products and service to our customers. Our patented filament wound columns are perfectly detailed and range from 12" to 36" in diameter with heights from 8 to 26 feet. One of the greatest benefits of these columns is that they are lightweight. Filament wound columns can be **as little as 20%** of the weight of a spun cast column.

What does this mean to an installer or contractor? Safety. Heavy spun cast columns are difficult to handle requiring additional manpower at the job site as well as additional lifting equipment such as a forklift, boom truck or bucket truck. In most cases the cost of the filament wound column compares to the cost of the spun cast column, not including the additional cost for manpower and equipment that will drive the spun cast cost up significantly. Other safety concerns with spun cast columns include potential damage caused by columns that are dropped. Replacement costs of the column and other damages can exceed hundreds of dollars.

Use the chart below to determine the weight difference between filament wound and spun cast columns. Larger spun cast columns can be up to five times the weight of filament wound columns! With that much difference, which is more cost effective and safe? You decide.

## Weight Comparison Chart

Size	Filament Wound (lbs)	Spun Cast (lbs)
12" x 16'-0	65	240
14" x 16'-0	75	320
16" x 16'-0	100	400
16" x 20'-0	130	540
18" x 18'-0	130	620
18" x 20'-0	145	700
20" x 20'-0	175	850
20" x 24'-0	210	1,150
22" x 18'-0	175	950
22" x 24'-0	230	1,500
24" x 20'-0	235	1,400
24" x 26'-0	270	2,000
30" x 24'-0	370	2,100
36" x 24'-0	440	3,500

# Column Specifications

## Filament Wound Shaft Weight

Filament Wound Shaft Weight (in LBS.)

COLUMN DIA. (in.)	LENGTH (ft.)	WEIGHT/lbs
12	8	30
12	10	38
12	12	45
12	14	55
12	16	65
12	18	75
14	8	37
14	10	45
14	12	55
14	14	65
14	16	75
16	8	52
16	10	65
16	12	77
16	14	90
16	16	100
16	18	110
16	20	130
18	10	72
18	12	90
18	14	100
18	16	115
18	18	130
18	20	145
20	10	90
20	12	105
20	14	122
20	16	140
20	18	160
20	20	175

COLUMN DIA. (in.)	LENGTH (ft.)	WEIGHT/lbs
20	22	190
20	24	210
22	10	100
22	12	118
22	14	137
22	16	156
22	18	175
22	20	195
22	22	215
22	24	230
24	10	125
24	12	150
24	14	170
24	16	190
24	18	210
24	20	235
24	22	245
24	24	255
24	26	270
28	20	255
28	22	280
28	24	300
30	20	325
30	22	345
30	24	370
36	20	395
36	22	410
36	24	440
36	28	525
36	30	550

# Column Specifications

## Column Load Bearing Capacity

### Lengths (Feet)

Diameter	8'	10'	12'	14'	16'	18'	20'	22'	24'	26'	Pounds
12"	*	*	*	*	*	*					18,000
14"	*	*	*	*	*						20,000
16"	*	*	*	*	*	*	*				22,000
18"		*	*	*	*	*	*				24,000
20"		*	*	*	*	*	*	*	*		26,000
22"		*	*	*	*	*	*	*	*		28,000
24"		*	*	*	*	*	*	*	*	*	30,000
28"							*	*	*		35,000
30"							*	*	*		35,000
36"							*	*	*		35,000

## Filament Wound Shaft

### Filament Wound Shaft Specifications

Bottom Diameter	Wall Thickness	Load	Top Diameter	Interior Clearance	Base/Plinth Height	Plinth Width	Tuscan Capital Height	Abacus Width
12"	$\frac{5}{32}$ "	20,000	10 $\frac{1}{2}$ "	9 $\frac{3}{4}$ "	6"	16 $\frac{1}{8}$ "	3 $\frac{3}{8}$ "	14 $\frac{3}{8}$ "
14"	$\frac{5}{32}$ "	20,000	12"	11 $\frac{3}{4}$ "	7 $\frac{3}{8}$ "	18 $\frac{3}{4}$ "	4"	17 $\frac{1}{8}$ "
16"	$\frac{5}{32}$ "	22,000	13 $\frac{1}{2}$ "	13 $\frac{1}{4}$ "	8 $\frac{1}{2}$ "	21 $\frac{1}{2}$ "	4 $\frac{3}{8}$ "	19 $\frac{1}{8}$ "
18"	$\frac{5}{32}$ "	24,000	15"	14 $\frac{3}{4}$ "	9 $\frac{5}{8}$ "	24 $\frac{1}{4}$ "	5 $\frac{1}{8}$ "	21 $\frac{1}{4}$ "
20"	$\frac{11}{64}$ "	26,000	17"	16 $\frac{5}{8}$ "	10 $\frac{3}{4}$ "	27"	5 $\frac{7}{8}$ "	24 $\frac{1}{2}$ "
22"	$\frac{3}{16}$ "	28,000	18 $\frac{1}{2}$ "	18 $\frac{1}{8}$ "	12 $\frac{1}{8}$ "	29 $\frac{3}{4}$ "	6 $\frac{1}{4}$ "	26 $\frac{1}{2}$ "
24"	$\frac{13}{64}$ "	30,000	20"	19 $\frac{5}{16}$ "	13 $\frac{1}{4}$ "	32 $\frac{1}{2}$ "	7 $\frac{1}{2}$ "	28 $\frac{3}{4}$ "
28"	$\frac{7}{32}$ "	35,000	23 $\frac{1}{2}$ "	22 $\frac{5}{16}$ "	15 $\frac{1}{2}$ "	38"	8"	33 $\frac{3}{8}$ "
30"	$\frac{7}{32}$ "	35,000	25"	24 $\frac{5}{16}$ "	16 $\frac{1}{2}$ "	40 $\frac{1}{2}$ "	9 $\frac{1}{8}$ "	35 $\frac{3}{4}$ "
36"	7 $\frac{1}{32}$ "	35,000	30"	29 $\frac{5}{16}$ "	20 $\frac{1}{4}$ "	48 $\frac{3}{4}$ "	10 $\frac{1}{2}$ "	42 $\frac{3}{4}$ "