

# Molded Fiber Glass Construction Products Company



**Concrete Forming With Molded Fiber Glass Forms**



# Molded Fiber Glass

## Waffle Slab Forms

Fiberglass domes are lightweight, economical and produce an aesthetically pleasing finish. MFG Construction Products Company maintains the largest inventory of fiberglass reinforced waffle forms in the world. Contractor's Option: Contractors can lease the equipment and do the forming themselves or have it done by others. Complete instructions and field service by factory representatives make the job easy. Suggested Specifications: Forms will be made of fiberglass reinforced plastic as manufactured by Molded Fiber Glass Construction Products Company, Independence, KS, or approved equal. When other types of forms have been noted on the construction drawings, the contractor has the option of using MFG Forms.

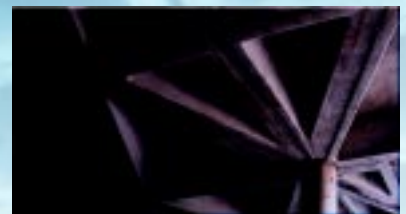
### Standard Rental Forms (US Units): MATCHED METAL DIE MOLDED

Void Plan, inches	Depth, inches	Joist Center, inches	Joist Width, inches	Approx. Concrete Voided, cubic feet	Form Weight, lbs.	Side Wall Taper, inches	Dimensions, inches					
							A	B	C	D	E	F
19 x 19	8	24 x 24	5	1.5	10.0	1 in 12	24	19	2- 1/2	5/8	1- 1/2	8
	10			11.5	10							
	12			12.5	12							
	14			13.2	14							
	16			14.5	16							
24 x 24	8	30 x 30	6	2.5	15.5	1 in 12	30	24	3	5/8	1- 1/2	8
	10			17.0	10							
	12			18.5	12							
	14			20.0	14							
	16			22.0	16							
30 x 30	8	36 x 36	6	4.0	24.5	1 in 12	36	30	3	5/8	1- 1/2	8
	10			28.5	10							
	12			31.0	12							
	14			33.0	14							
	16			36.5	16							
*18 x 20	18	*18 x 20	*18 x 20	8.2	39.0	1 in 8	*18	*18	*18	*18	*18	18
	20			41.0	20							
	8			18.5	8							
	10			20.0	10							
	12			21.0	12							
† 30 x 20	8	36 x 26	6	2.5	18.5	1 in 12	36 x 26	30 x 20	3	5/8	1- 1/2	8
	10			20.0	10							
	12			21.0	12							
	14			22.0	14							
	16			24.0	16							
† 20 x 20	8	26 x 26	6	2.0	11.5	1 in 12	26	20	3	5/8	1- 1/2	8
	10			12.3	10							
	12			13.5	12							
	14			15.4	14							
	16			19.0	16							
*18 x 20	18	*18 x 20	*18 x 20	3.4	20.0	1 in 8	*18	*18	*18	*18	*18	18
	20			25.0	20							
	16			79.0	16							
	24			99.0	24							
	40			19.40	40							
40 x 40	16	48 x 48	8	13.80	79.0	1 in 9	48	40	4	3/4	1- 1/2	16
	24			99.0	24							
	12			10.00	12							
	14			12.00	14							
	16			14.00	16							
41 x 41	18	48 x 48	7	15.50	83.0	1 in 12 1 in 9	48	41	3- 1/2	3/4	1- 1/2	18
	20			92.0	20							
	24			110.0	24							
	10			15.0	10							
	12			17.8	12							
52 x 52	14	60 x 60	8	20.6	103.0	1 in 9	60	52	4	7/8	1- 1/2	14
	16			109.0	16							
	18			115.0	18							
	20			122.0	20							
	24			142.0	24							



### Beam and Slab Forms

The emergence of more sophisticated flying systems has created a demand for simplified forms which will be more permanently secured. Flying forms move entire floor sections in complete grid format from floor to floor. This method of forming will offset your high labor and material costs.



### Special Shapes

Produced in our custom shop, MFG custom forms can be molded into almost any shape. The cost is relatively low and the shape possibilities are limited only by the designers' ingenuity.



### Long Forms

Use MFG extra-long forms for faster concrete forming.

OTHER DEPTHS AND VOID SIZES AVAILABLE UPON SPECIAL ORDER †Filler sizes for use only with 30" x 30" modular system. Filler sizes are not available in quantities for complete project. \*Limited quantities available. Specifications subject to change without notice.

## Custom Work

Innovative architectural building designs can require new shapes and sizes for concrete forms. The use of fiberglass will accommodate your design better than any other material. The inherent characteristics of fiberglass make it lightweight and strong with a smooth surface finish. In addition, fiberglass has a long use life and a relatively low cost.

MFG will be glad to work with your designers to design and produce the desired shapes. These may be circular, triangular, star, or any other shapes which can be produced to specification. We invite your inquiry so that our cooperative efforts can ensure project success.



Forms are easily removed by applying a charge of nitrogen or air through the domes' fitted rubber plugs. Following release they are stacked for reuse.



Forms are easily removed and stacked for reuse. A blast of bottled nitrogen or air dislodges them.

OTHER DEPTHS AND VOID SIZES AVAILABLE UPON SPECIAL ORDER  
 †Filler sizes for use only with 762mm x 762mm modular system. Filler sizes are not available in quantities for complete project. Specifications subject to change without notice.

Void Plan, mm	Depth, mm	Joist Center, mm	Joist Width, mm	Approx. Concrete Voided, cubic meters	Form Weight, kgs	Side Wall Taper, mm	Dimensions, mm					
							A	B	C	D	E	F
483 x 483	203	610 x 610	127	0.04245	4.6	25 in 305	610	483	64	16	38	203
	254			0.05377	5.2							254
	305			0.05943	5.7							305
	356			0.07075	6.0							356
	406			0.07924	6.6							406
610 x 610	203	762 x 762	152	0.07075	7.1	25 in 305	762	610	76	16	38	203
	254			0.0894	7.7							254
	305			0.09905	8.4							305
	356			0.1132	9.1							356
	406			0.127	10.0							406
	508			0.16	11.4							508
762 x 762	203	914 x 914	152	0.1132	11.1	25 in 305 25in 203	914	762	76	16	38	203
	254			0.1358	12.9							254
	305			0.1585	14.1							305
	356			0.1868	15.0							356
	406			0.2123	16.6							406
	457			0.232	17.7							457
	508			0.2547	18.6							508
	†			203	914 x 660							152
254	0.08773	9.1	254									
305	0.1019	9.5	305									
356	0.1217	10.0	356									
406	0.1415	10.9	406									
457	0.147	13.2	457									
508	0.161	14.5	508									
† 508 x 508	203	660 x 660	152	0.0556	5.2	25 in 305 25in 203	660	508	76	16	38	203
	254			0.06226	5.6							254
	305			0.07075	6.1							305
	356			0.0849	7.0							356
	406			0.09056	8.6							406
	457			0.09622	9.1							457
	508			0.1047	11.4							508
	1,016 x 1,016			406	1,219 x 1,219							203
610		0.55	45.0	610								
1,041 x 1,041	305	1,219 x 1,219	177	0.283	29.5	25 in 305 25 in 229	1,219	1,041	89	19	38	305
	356			0.3396	32.7							356
	406			0.396	35.9							406
	457			0.4386	37.7							457
	508			0.488	41.9							508
	610			0.5856	50.3							610
1,321 x 1,321	254	1,524 x 1,524	203	0.4245	44.1	25 in 229	1,524	1,321	102	22	38	254
	305			0.5037	46.8							305
	356			0.583	49.5							356
	406			0.6622	52.3							406
	457			0.7386	55.5							457
	508			0.812	58.6							508
	610			0.9565	64.5							610

# Molded Fiber Glass Construction Products Company

## One-Piece Round Column Forms

MFG one-piece round column forms (RCFs) are economical, and produce a smooth concrete finish. Manufactured of fiberglass reinforced plastic, these forms will not dent, sag, rot or weather and they require little, if any, maintenance.

MFG Round Column Forms (RCFs) are lightweight, easy to handle, and simple to

set up and remove. MFG RCF's have only one vertical seam and are supplied complete with bracing collars and "fast" bolts. MFG RCF's are designed for repeat use.

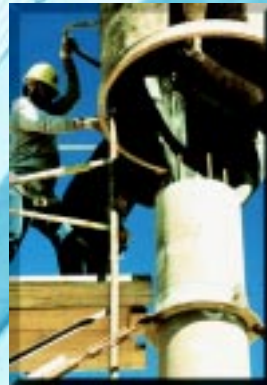
MFG RCFs are nest-able thus requiring less storage and shipping space. Diameters from 12 to 48 inches are available in one-piece lengths up to 20 feet. RCFs can be rented or purchased.

### Suggested Specifications (Column Forms)

MFG Construction Products Company one-piece fiberglass reinforced plastic round column forms have only one seam and produce a smooth finish.



1. Setup



2. Fill



3. Remove



4. Finished

### US Units

Column Diameter, inches	Max. Length, feet	Approx. Wt. Per Lineal ft., lbs	Approx. Vol. of Concrete Per lineal ft., cubic feet
12	20	9.9	0.8
14	20	10.0	1.0
16	20	11.1	1.4
18	20	12.3	1.8
20	20	13.1	2.2
22	20	14.2	2.6
24	20	15.2	3.1
26	20	16.2	3.6
28	20	17.3	4.2
30	20	18.4	4.9
32	20	19.5	5.5
34	20	20.5	6.3
36	20	21.5	7.0
38	20	22.6	7.9
40	20	23.7	8.7
42	20	24.8	9.6
44	20	25.8	10.6
46	20	26.8	11.5
48	20	27.9	12.6

### SI Units

Column Diameter, millimeters	Max. Length, meters	Approx. Wt. Per Lineal Meter, kilogram/meter	Approx. Vol. of Concrete Per Lineal Meter cubic meters/meter
304.8	6.096	14.76	0.0743
355.6	6.096	14.913	0.0929
406.4	6.096	16.553	0.13
457.2	6.096	18.34	0.167
508.0	6.096	19.536	0.2044
558.8	6.096	21.176	0.2415
609.6	6.096	22.667	0.288
660.4	6.096	24.16	0.334
711.2	6.096	25.8	0.39
762.0	6.096	27.44	0.455
812.8	6.096	29.08	0.51
863.6	6.096	30.57	0.585
914.4	6.096	32.06	0.65
965.2	6.096	33.7	0.734
1016.0	6.096	35.34	0.808
1066.8	6.096	37.00	0.8918
1117.6	6.096	38.475	0.9847
1168.4	6.096	40.00	1.068
1219.2	6.096	41.6	1.17

For availability and costs dial:  
**1-800-CALL MFG**  
2 2 5 5 6 3 4

Maximum lateral pressure should not exceed 2,250 psf. Based on Table 5-5, page 5-13, Formwork For Concrete Fifth Edition, maximum rate of fill is:  
At 90°F: 20 ft. per hr.  
At 80°F: 18 ft. per hr.  
At 70°F: 16 ft. per hr.

At 60°F: 14 ft. per hr.  
At 50°F: 11 ft. per hr.  
At 40°F: 9 ft. per hr.

Maximum lateral pressure should not exceed 108,000 Pascals (or 11,009 Kg/sq meters). Based on Table 5-5, page 5-13, Formwork For Concrete Fifth Edition, maximum rate of fill is:  
At 32.2°C: 6.096 m. per hr.  
At 26.7°C: 5.486 m. per hr.  
At 21.1°C: 4.877 m. per hr.

At 15.5°C: 4.267 m. per hr.  
At 10.0°C: 3.353 m. per hr.  
At 4.4°C: 2.743 m. per hr.

## Molded Fiber Glass Construction Products Company

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