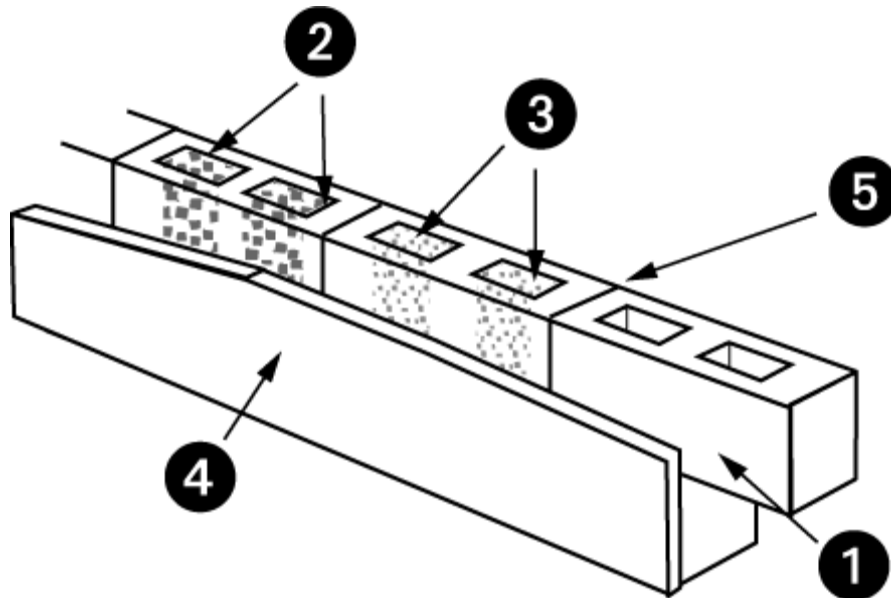


4-Hour Fire Rating

6" C.M.U.

Fire Rating: 4 Hour

No. 6-4-910350GFS



Assembly Information

1. Preferred product 910350 c.m.u. 6" x 8" x 16" nominal
 2. Masonry grout -all cells filled
- OR**
3. Approved loose fill material - all cells filled*
 4. Portland cement stucco - 1/2" thick applied directly to C.M.U.
 4. ASTM C-270 Masonry Mortar, Type M or S. Face shell or full mortar bedding as required.
 5. Masonry grout, reinforcing steel, joint reinforcement, anchors, ties and accessories (Not depicted above - optional). Use where specified.

*Approved loose fill materials include: sand, pea gravel, crushed stone or slag that meet ASTM C33 requirements; pumice, scoria, expanded shale, expanded clay, expanded slate, expanded slag, expanded fly ash, or cinders in compliance with ASTM C331; perlite or vermiculite that complies with ASTM C332 or ASTM C549 and C516, respectively.

Preferred Materials Inc. accepts no responsibility for proper application of the rated wall assembly above, or responsibility for the construction of such assemblies.

Fire Rating: 4 Hour No. 6-4-910350GFS

Concrete Masonry Unit

Section 721.3.2 of the Florida Building Code

Unit Description	Size WxHxL Nominal	Equivalent Thickness Inches	Fire Rating Minutes
910350	6x8x16	3.2	77.2*

** Linear interpolation from Table 721.3.2 of the Florida Building Code for Exposed Finish Block Mix – 55% limestone & 45% siliceous aggregates.*

Section 721.3.1.3 and 721.3.1.4 of the Florida Building Code

Solid Grouted construction and/or cells filled with loose-fill materials

Included	Equivalent Thickness Inches	Fire Rating Minutes
No	N/A	N/A
Yes	5.62	209

** Linear interpolation from Table 721.3.2 of the Florida Building Code for Exposed Finish Block Mix – 55% limestone & 45% siliceous aggregates.*

Fire Rating: 4 Hour

No. 6-4-910350GFS

Nonfire-exposed side

Side 1

Section 721.3.2.1 of the Florida Building Code

Finish	
½ inch thick Portland cement-sand Stucco	.5
Multiplying factor Table 721.2.1.4(1)	1
Adjusted Thickness	.5
Concrete Masonry Unit	
Unit Description	910350
Size WxHxL Nominal	6x8x16
Equivalent Thickness	5.62
Fire Rating Minutes	209
Total Thickness, CMU + Finish	6.12
Fire Resistance Rating of CMU & Finish, Table 721.3.2	240*

** Linear interpolation from Table 721.3.2 of the Florida Building Code for Exposed Finish Block Mix – 55% limestone & 45% siliceous aggregates.*

Side 2

Section 721.3.2.1 of the Florida Building Code

Finish	
None	0
Multiplying factor Table 721.2.1.4(1)	N/A
Adjusted Thickness (inches)	0
Concrete Masonry Unit	
Unit Description	910350
Size WxHxL Nominal	6x8x16
Equivalent Thickness (inches)	5.62
Fire Rating Minutes	209
Total Thickness, CMU + Finish (inches)	5.62
Fire Resistance Rating of CMU & Finish, Table 721.3.2	209*

** Linear interpolation from Table 721.3.2 of the Florida Building Code for Exposed Finish Block Mix – 55% limestone & 45% siliceous aggregates.*

Fire Rating: 4 Hour No. 6-4-910350GFS

Fire-exposed side

Side 1

Section 721.3.2.2 of the Florida Building Code

Finish	
None	
Time assigned to finish materials Table 721.2.1.4(2)	0
Fire Resistance of CMU and Nonfire-exposed side Finish Table 721.3.2	240
Assembly Fire-Resistance Rating	240
Max. allowable assembly Fire Resistance Block + finishes	418
Total Assembly Fire-Resistance Rating	240

Side 2

Section 721.3.2.2 of the Florida Building Code

Finish	
½ inch thick Portland cement-sand Stucco	
Time assigned to finish materials Table 721.2.1.4(2)	0 0.5
Fire Resistance of CMU and Nonfire-exposed side Finish Table 721.3.2	5.62
Assembly Fire-Resistance Rating	240 6.12
Max. allowable assembly Fire Resistance Block + finishes	418
Total Assembly Fire-Resistance Rating	240

Assembly Fire-Resistance Rating	240 Minutes
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**Fire Resistance Rating, minutes per inches of equivalent thickness
Linear Interpolation from table 721.3.2 of the 2007 Florida Building Code
Exposed Finish Block Mix – 55% Limestone & 45% Siliceous Aggregates**

1.95	30.0	2.36	45.4	2.77	60.8	3.18	76.3	3.59	95.0	4.00	115.5	4.41	136.2	4.82	160.8	5.23	186.8	5.64	210.0
1.96	30.4	2.37	45.8	2.78	61.1	3.19	76.8	3.60	95.5	4.01	116.0	4.42	136.8	4.83	161.4	5.24	187.5	5.65	210.8
1.97	30.8	2.38	46.1	2.79	61.5	3.20	77.2	3.61	96.0	4.02	116.5	4.43	137.4	4.84	162.0	5.25	188.3	5.66	211.5
1.98	31.1	2.39	46.5	2.80	61.9	3.21	77.6	3.62	96.5	4.03	117.0	4.44	138.0	4.85	162.6	5.26	189.0	5.67	212.3
1.99	31.5	2.40	46.9	2.81	62.3	3.22	78.1	3.63	97.0	4.04	117.5	4.45	138.6	4.86	163.2	5.27	189.8	5.68	213.0
2.00	31.9	2.41	47.3	2.82	62.6	3.23	78.5	3.64	97.5	4.05	118.0	4.46	139.2	4.87	163.8	5.28	190.5	5.69	213.8
2.01	32.3	2.42	47.6	2.83	63.0	3.24	79.0	3.65	98.0	4.06	118.5	4.47	139.8	4.88	164.4	5.29	191.3	5.70	214.5
2.02	32.6	2.43	48.0	2.84	63.4	3.25	79.4	3.66	98.5	4.07	119.0	4.48	140.4	4.89	165.0	5.30	192.0	5.71	215.3
2.03	33.0	2.44	48.4	2.85	63.7	3.26	79.9	3.67	99.0	4.08	119.5	4.49	141.0	4.90	165.6	5.31	192.8	5.72	216.0
2.04	33.4	2.45	48.7	2.86	64.1	3.27	80.3	3.68	99.5	4.09	120.0	4.50	141.6	4.91	166.2	5.32	193.5	5.73	216.8
2.05	33.8	2.46	49.1	2.87	64.5	3.28	80.7	3.69	100.0	4.10	120.5	4.51	142.2	4.92	166.8	5.33	194.3	5.74	217.5
2.06	34.1	2.47	49.5	2.88	64.9	3.29	81.2	3.70	100.5	4.11	121.0	4.52	142.8	4.93	167.4	5.34	195.0	5.75	218.3
2.07	34.5	2.48	49.9	2.89	65.2	3.30	81.6	3.71	101.0	4.12	121.5	4.53	143.4	4.94	168.0	5.35	195.5	5.76	219.0
2.08	34.9	2.49	50.2	2.90	65.6	3.31	82.1	3.72	101.5	4.13	122.0	4.54	144.0	4.95	168.6	5.36	196.0	5.77	219.8
2.09	35.2	2.50	50.6	2.91	66.0	3.32	82.5	3.73	102.0	4.14	122.5	4.55	144.6	4.96	169.2	5.37	196.5	5.78	220.5
2.10	35.6	2.51	51.0	2.92	66.4	3.33	82.9	3.74	102.5	4.15	123.0	4.56	145.2	4.97	169.8	5.38	197.0	5.79	221.3
2.11	36.0	2.52	51.4	2.93	66.7	3.34	83.4	3.75	103.0	4.16	123.5	4.57	145.8	4.98	170.4	5.39	197.5	5.80	222.0
2.12	36.4	2.53	51.7	2.94	67.1	3.35	83.8	3.76	103.5	4.17	124.0	4.58	146.4	4.99	171.0	5.40	198.0	5.81	222.8
2.13	36.7	2.54	52.1	2.95	67.5	3.36	84.3	3.77	104.0	4.18	124.5	4.59	147.0	5.00	171.6	5.41	198.5	5.82	223.5
2.14	37.1	2.55	52.5	2.96	67.9	3.37	84.7	3.78	104.5	4.19	125.0	4.60	147.6	5.01	172.2	5.42	199.0	5.83	224.3
2.15	37.5	2.56	52.9	2.97	68.2	3.38	85.1	3.79	105.0	4.20	125.5	4.61	148.2	5.02	172.8	5.43	199.5	5.84	225.0
2.16	37.9	2.57	53.2	2.98	68.6	3.39	85.6	3.80	105.5	4.21	126.0	4.62	148.8	5.03	173.4	5.44	200.0	5.85	225.8
2.17	38.2	2.58	53.6	2.99	69.0	3.40	86.0	3.81	106.0	4.22	126.5	4.63	149.4	5.04	174.0	5.45	200.5	5.86	226.5
2.18	38.6	2.59	54.0	3.00	69.4	3.41	86.5	3.82	106.5	4.23	127.0	4.64	150.0	5.05	174.6	5.46	201.0	5.87	227.3
2.19	39.0	2.60	54.4	3.01	69.7	3.42	86.9	3.83	107.0	4.24	127.5	4.65	150.6	5.06	175.2	5.47	201.5	5.88	228.0
2.20	39.4	2.61	54.7	3.02	70.1	3.43	87.3	3.84	107.5	4.25	128.0	4.66	151.2	5.07	175.8	5.48	202.0	5.89	228.8
2.21	39.7	2.62	55.1	3.03	70.5	3.44	87.8	3.85	108.0	4.26	128.5	4.67	151.8	5.08	176.4	5.49	202.5	5.90	229.5
2.22	40.1	2.63	55.5	3.04	70.9	3.45	88.2	3.86	108.5	4.27	129.0	4.68	152.4	5.09	177.0	5.50	203.0	5.91	230.3
2.23	40.5	2.64	55.9	3.05	71.2	3.46	88.7	3.87	109.0	4.28	129.5	4.69	153.0	5.10	177.6	5.51	203.5	5.92	231.0
2.24	40.9	2.65	56.2	3.06	71.6	3.47	89.1	3.88	109.5	4.29	130.0	4.70	153.6	5.11	178.2	5.52	204.0	5.93	231.8
2.25	41.2	2.66	56.6	3.07	72.0	3.48	89.6	3.89	110.0	4.30	130.5	4.71	154.2	5.12	178.8	5.53	204.5	5.94	232.5
2.26	41.6	2.67	57.0	3.08	72.4	3.49	90.0	3.90	110.5	4.31	131.0	4.72	154.8	5.13	179.4	5.54	205.0	5.95	233.3
2.27	42.0	2.68	57.4	3.09	72.7	3.50	90.5	3.91	111.0	4.32	131.5	4.73	155.4	5.14	180.0	5.55	205.5	5.96	234.0
2.28	42.4	2.69	57.7	3.10	73.1	3.51	91.0	3.92	111.5	4.33	132.0	4.74	156.0	5.15	180.8	5.56	206.0	5.97	234.8
2.29	42.7	2.70	58.1	3.11	73.5	3.52	91.5	3.93	112.0	4.34	132.5	4.75	156.6	5.16	181.5	5.57	206.5	5.98	235.5
2.30	43.1	2.71	58.5	3.12	73.9	3.53	92.0	3.94	112.5	4.35	133.0	4.76	157.2	5.17	182.3	5.58	207.0	5.99	236.3
2.31	43.5	2.72	58.9	3.13	74.2	3.54	92.5	3.95	113.0	4.36	133.5	4.77	157.8	5.18	183.0	5.59	207.5	6.00	237.0
2.32	43.9	2.73	59.2	3.14	74.6	3.55	93.0	3.96	113.5	4.37	134.0	4.78	158.4	5.19	183.8	5.60	208.0	6.01	237.8
2.33	44.2	2.74	59.6	3.15	75.0	3.56	93.5	3.97	114.0	4.38	134.5	4.79	159.0	5.20	184.5	5.61	208.5	6.02	238.5
2.34	44.6	2.75	60.0	3.16	75.4	3.57	94.0	3.98	114.5	4.39	135.0	4.80	159.6	5.21	185.3	5.62	209.0	6.03	239.3
2.35	45.0	2.76	60.4	3.17	75.9	3.58	94.5	3.99	115.0	4.40	135.6	4.81	160.2	5.22	186.0	5.63	209.5	6.04	240.0

**Fire Resistance Rating, minutes per inches of equivalent thickness
Direct Interpolation from table 721.3.2 of the 2007 Florida Building Code
Stucco/Sand Finish Block Mix – 100% Limestone**

et	min	et	min	et	min	et	min	et	min	et	min	et	min	et	min	et	min	et	min	et	min
1.90	30.0	2.31	45.4	2.72	60.8	3.13	76.5	3.54	92.0	3.95	107.5	4.36	123.0	4.77	138.5	5.18	154.0	5.59	169.5	6.00	185.0
1.91	30.4	2.32	45.8	2.73	61.1	3.14	77.0	3.55	92.5	3.96	108.0	4.37	123.5	4.78	139.0	5.19	154.5	5.60	170.0	6.01	185.5
1.92	30.8	2.33	46.1	2.74	61.5	3.15	77.5	3.56	93.0	3.97	108.5	4.38	124.0	4.79	139.5	5.20	155.0	5.61	170.5	6.02	186.0
1.93	31.1	2.34	46.5	2.75	61.9	3.16	78.0	3.57	93.5	3.98	109.0	4.39	124.5	4.80	140.0	5.21	155.5	5.62	171.0	6.03	186.5
1.94	31.5	2.35	46.9	2.76	62.3	3.17	78.5	3.58	94.0	3.99	109.5	4.40	125.0	4.81	140.5	5.22	156.0	5.63	171.5	6.04	187.0
1.95	31.9	2.36	47.3	2.77	62.6	3.18	79.0	3.59	94.5	4.00	110.0	4.41	125.5	4.82	141.0	5.23	156.5	5.64	172.0	6.05	187.5
1.96	32.3	2.37	47.6	2.78	63.0	3.19	79.5	3.60	95.0	4.01	110.5	4.42	126.0	4.83	141.5	5.24	157.0	5.65	172.5	6.06	188.0
1.97	32.6	2.38	48.0	2.79	63.4	3.20	80.0	3.61	95.5	4.02	111.0	4.43	126.5	4.84	142.0	5.25	157.5	5.66	173.0	6.07	188.5
1.98	33.0	2.39	48.4	2.80	63.7	3.21	80.5	3.62	96.0	4.03	111.5	4.44	127.0	4.85	142.5	5.26	158.0	5.67	173.5	6.08	189.0
1.99	33.4	2.40	48.8	2.81	64.1	3.22	81.0	3.63	96.5	4.04	112.0	4.45	127.5	4.86	143.0	5.27	158.5	5.68	174.0	6.09	189.5
2.00	33.8	2.41	49.1	2.82	64.5	3.23	81.5	3.64	97.0	4.05	112.5	4.46	128.0	4.87	143.5	5.28	159.0	5.69	174.5	6.10	190.0
2.01	34.1	2.42	49.5	2.83	64.9	3.24	82.0	3.65	97.5	4.06	113.0	4.47	128.5	4.88	144.0	5.29	159.5	5.70	175.0	6.11	190.5
2.02	34.5	2.43	49.9	2.84	65.2	3.25	82.5	3.66	98.0	4.07	113.5	4.48	129.0	4.89	144.5	5.30	160.0	5.71	175.5	6.12	191.0
2.03	34.9	2.44	50.3	2.85	65.6	3.26	83.0	3.67	98.5	4.08	114.0	4.49	129.5	4.90	145.0	5.31	160.5	5.72	176.0	6.13	191.5
2.04	35.3	2.45	50.6	2.86	66.0	3.27	83.5	3.68	99.0	4.09	114.5	4.50	130.0	4.91	145.5	5.32	161.0	5.73	176.5	6.14	192.0
2.05	35.6	2.46	51.0	2.87	66.4	3.28	84.0	3.69	99.5	4.10	115.0	4.51	130.5	4.92	146.0	5.33	161.5	5.74	177.0	6.15	192.5
2.06	36.0	2.47	51.4	2.88	66.7	3.29	84.5	3.70	100.0	4.11	115.5	4.52	131.0	4.93	146.5	5.34	162.0	5.75	177.5	6.16	193.0
2.07	36.4	2.48	51.7	2.89	67.1	3.30	85.0	3.71	100.5	4.12	116.0	4.53	131.5	4.94	147.0	5.35	162.5	5.76	178.0	6.17	193.5
2.08	36.7	2.49	52.1	2.90	67.5	3.31	85.5	3.72	101.0	4.13	116.5	4.54	132.0	4.95	147.5	5.36	163.0	5.77	178.5	6.18	194.0
2.09	37.1	2.50	52.5	2.91	67.9	3.32	86.0	3.73	101.5	4.14	117.0	4.55	132.5	4.96	148.0	5.37	163.5	5.78	179.0	6.19	194.5
2.10	37.5	2.51	52.9	2.92	68.2	3.33	86.5	3.74	102.0	4.15	117.5	4.56	133.0	4.97	148.5	5.38	164.0	5.79	179.5	6.20	195.0
2.11	37.9	2.52	53.2	2.93	68.6	3.34	87.0	3.75	102.5	4.16	118.0	4.57	133.5	4.98	149.0	5.39	164.5	5.80	180.0	6.21	195.5
2.12	38.2	2.53	53.6	2.94	69.0	3.35	87.5	3.76	103.0	4.17	118.5	4.58	134.0	4.99	149.5	5.40	165.0	5.81	180.5	6.22	196.0
2.13	38.6	2.54	54.0	2.95	69.4	3.36	88.0	3.77	103.5	4.18	119.0	4.59	134.5	5.00	150.0	5.41	165.5	5.82	181.0	6.23	196.5
2.14	39.0	2.55	54.4	2.96	69.7	3.37	88.5	3.78	104.0	4.19	119.5	4.60	135.0	5.01	150.5	5.42	166.0	5.83	181.5	6.24	197.0
2.15	39.4	2.56	54.7	2.97	70.1	3.38	89.0	3.79	104.5	4.20	120.0	4.61	135.5	5.02	151.0	5.43	166.5	5.84	182.0	6.25	197.5
2.16	39.7	2.57	55.1	2.98	70.5	3.39	89.5	3.80	105.0	4.21	120.5	4.62	136.0	5.03	151.5	5.44	167.0	5.85	182.5	6.26	198.0
2.17	40.1	2.58	55.5	2.99	70.9	3.40	90.0	3.81	105.5	4.22	121.0	4.63	136.5	5.04	152.0	5.45	167.5	5.86	183.0	6.27	198.5
2.18	40.5	2.59	55.9	3.00	71.2	3.41	90.5	3.82	106.0	4.23	121.5	4.64	137.0	5.05	152.5	5.46	168.0	5.87	183.5	6.28	199.0
2.19	40.9	2.60	56.2	3.01	71.6	3.42	91.0	3.83	106.5	4.24	122.0	4.65	137.5	5.06	153.0	5.47	168.5	5.88	184.0	6.29	199.5
2.20	41.2	2.61	56.6	3.02	72.0	3.43	91.5	3.84	107.0	4.25	122.5	4.66	138.0	5.07	153.5	5.48	169.0	5.89	184.5	6.30	200.0
2.21	41.6	2.62	57.0	3.03	72.4	3.44	92.0	3.85	107.5	4.26	123.0	4.67	138.5	5.08	154.0	5.49	169.5	5.90	185.0	6.31	200.5
2.22	42.0	2.63	57.4	3.04	72.7	3.45	92.5	3.86	108.0	4.27	123.5	4.68	139.0	5.09	154.5	5.50	170.0	5.91	185.5	6.32	201.0
2.23	42.4	2.64	57.7	3.05	73.1	3.46	93.0	3.87	108.5	4.28	124.0	4.69	139.5	5.10	155.0	5.51	170.5	5.92	186.0	6.33	201.5
2.24	42.7	2.65	58.1	3.06	73.5	3.47	93.5	3.88	109.0	4.29	124.5	4.70	140.0	5.11	155.5	5.52	171.0	5.93	186.5	6.34	202.0
2.25	43.1	2.66	58.5	3.07	73.9	3.48	94.0	3.89	109.5	4.30	125.0	4.71	140.5	5.12	156.0	5.53	171.5	5.94	187.0	6.35	202.5
2.26	43.5	2.67	58.9	3.08	74.2	3.49	94.5	3.90	110.0	4.31	125.5	4.72	141.0	5.13	156.5	5.54	172.0	5.95	187.5	6.36	203.0
2.27	43.9	2.68	59.2	3.09	74.6	3.50	95.0	3.91	110.5	4.32	126.0	4.73	141.5	5.14	157.0	5.55	172.5	5.96	188.0	6.37	203.5
2.28	44.2	2.69	59.6	3.10	75.0	3.51	95.5	3.92	111.0	4.33	126.5	4.74	142.0	5.15	157.5	5.56	173.0	5.97	188.5	6.38	204.0
2.29	44.6	2.70	60.0	3.11	75.5	3.52	96.0	3.93	111.5	4.34	127.0	4.75	142.5	5.16	158.0	5.57	173.5	5.98	189.0	6.39	204.5
2.30	45.0	2.71	60.4	3.12	76.0	3.53	96.5	3.94	112.0	4.35	127.5	4.76	143.0	5.17	158.5	5.58	174.0	5.99	189.5	6.40	205.0