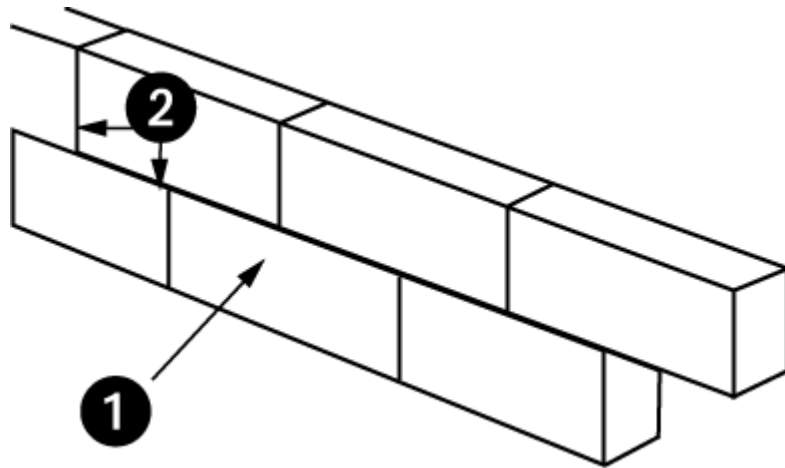


2-Hour Fire Rating

4" C.M.U.

Fire Rating: 2 Hour

No. 4-2-910285LW



Assembly Information

1. Preferred product 910285 c.m.u. 4" x 8" x 16" nominal.
2. ASTM C-270 Masonry Mortar, Type M, or S. Face shell or full mortar bedding as required.
3. Masonry grout, reinforcing steel, joint reinforcement, anchors, ties and accessories (Not depicted above - optional). Use where specified.

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: 2 Hour No. 4-2-910285LW

Concrete Masonry Unit

Section 721.3.2 of the Florida Building Code

Unit Description	Size WxHxL Nominal	Equivalent Thickness Inches	Fire Rating Minutes
910285	4x8x16	3.62	121.5*

** Linear interpolation from Table 721.3.2 of the Florida Building Code for Lightweight Mix – 100% expanded shale, slate, or clay 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	3.62	121.5*
Yes	N/A	N/A

** Linear interpolation from Table 721.3.2 of the Florida Building Code for Lightweight Mix – 100% expanded shale, slate, or clay aggregates.*

Fire Rating: 2 Hour No. 4-2-910285LW

Nonfire-exposed side

Side 1

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	0
Concrete Masonry Unit	
Unit Description	910285
Size WxHxL Nominal	4x8x16
Equivalent Thickness	3.62
Fire Rating Minutes	121.5
Total Thickness, CMU + Finish	3.62
Fire Resistance Rating of CMU & Finish, Table 721.3.2	121.5*

** Linear interpolation from Table 721.3.2 of the Florida Building Code for Lightweight Mix – 100% expanded shale, slate, or clay 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	910285
Size WxHxL Nominal	4x8x16
Equivalent Thickness (inches)	3.62
Fire Rating Minutes	121.5
Total Thickness, CMU + Finish (inches)	3.62
Fire Resistance Rating of CMU & Finish, Table 721.3.2	121.5*

** Linear interpolation from Table 721.3.2 of the Florida Building Code for Lightweight Mix – 100% expanded shale, slate, or clay aggregates.*

Fire Rating: 2 Hour No. 4-2-910285LW

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	121.5
Assembly Fire-Resistance Rating	121.5
Max. allowable assembly Fire Resistance Block + finishes	243
Total Assembly Fire-Resistance Rating	121.5

Side 2

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	121.5
Assembly Fire-Resistance Rating	121.5
Max. allowable assembly Fire Resistance Block + finishes	243
Total Assembly Fire-Resistance Rating	121.5

Assembly Fire-Resistance Rating	121.5 minutes
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Fire Resistance Rating, minutes per inches of equivalent thickness
Direct Interpolation from Table 721.3.2 of the Florida Building Code
Lightweight Mix - 100% expanded shale, clay, or slate aggregates

et	min	et	min	et	min	et	min	et	min	et	min	et	min	et	min	et	min
1.80	30.0	2.21	45.4	2.62	61.0	3.03	79.9	3.44	108.0	3.85	138.8	4.26	169.5	4.67	200.3	5.08	238.5
1.81	30.4	2.22	45.8	2.63	61.5	3.04	80.2	3.45	108.8	3.86	139.5	4.27	170.3	4.68	201.0	5.09	239.3
1.82	30.8	2.23	46.1	2.64	62.0	3.05	80.6	3.46	109.5	3.87	140.3	4.28	171.0	4.69	201.8	5.10	240.0
1.83	31.1	2.24	46.5	2.65	62.5	3.06	81.0	3.47	110.3	3.88	141.0	4.29	171.8	4.70	202.5		
1.84	31.5	2.25	46.9	2.66	63.0	3.07	81.4	3.48	111.0	3.89	141.8	4.30	172.5	4.71	203.3		
1.85	31.9	2.26	47.3	2.67	63.5	3.08	81.7	3.49	111.8	3.90	142.5	4.31	173.3	4.72	204.0		
1.86	32.3	2.27	47.6	2.68	64.0	3.09	82.1	3.50	112.5	3.91	143.3	4.32	174.0	4.73	204.8		
1.87	32.6	2.28	48.0	2.69	64.5	3.10	82.5	3.51	113.3	3.92	144.0	4.33	174.8	4.74	205.5		
1.88	33.0	2.29	48.4	2.70	65.0	3.11	82.9	3.52	114.0	3.93	144.8	4.34	175.5	4.75	206.3		
1.89	33.4	2.30	48.7	2.71	65.5	3.12	83.2	3.53	114.8	3.94	145.5	4.35	176.3	4.76	207.0		
1.90	33.8	2.31	49.1	2.72	66.0	3.13	83.6	3.54	115.5	3.95	146.3	4.36	177.0	4.77	207.8		
1.91	34.1	2.32	49.5	2.73	66.5	3.14	84.0	3.55	116.3	3.96	147.0	4.37	177.8	4.78	208.5		
1.92	34.5	2.33	49.9	2.74	67.0	3.15	84.4	3.56	117.0	3.97	147.8	4.38	178.5	4.79	209.3		
1.93	34.9	2.34	50.2	2.75	67.5	3.16	84.7	3.57	117.8	3.98	148.5	4.39	179.3	4.80	210.0		
1.94	35.3	2.35	50.6	2.76	68.0	3.17	85.1	3.58	118.5	3.99	149.3	4.40	180.0	4.81	211.5		
1.95	35.6	2.36	51.0	2.77	68.5	3.18	85.5	3.59	119.3	4.00	150.0	4.41	180.8	4.82	213.0		
1.96	36.0	2.37	51.4	2.78	69.0	3.19	85.9	3.60	120.0	4.01	150.8	4.42	181.5	4.83	214.5		
1.97	36.4	2.38	51.7	2.79	69.5	3.20	86.2	3.61	120.8	4.02	151.5	4.43	182.3	4.84	216.0		
1.98	36.8	2.39	52.1	2.80	70.0	3.21	86.6	3.62	121.5	4.03	152.3	4.44	183.0	4.85	217.5		
1.99	37.1	2.40	52.5	2.81	70.5	3.22	87.0	3.63	122.3	4.04	153.0	4.45	183.8	4.86	219.0		
2.00	37.5	2.41	52.9	2.82	71.0	3.23	87.4	3.64	123.0	4.05	153.8	4.46	184.5	4.87	220.5		
2.01	37.9	2.42	53.2	2.83	71.5	3.24	87.7	3.65	123.8	4.06	154.5	4.47	185.3	4.88	222.0		
2.02	38.3	2.43	53.6	2.84	72.0	3.25	88.1	3.66	124.5	4.07	155.3	4.48	186.0	4.89	223.5		
2.03	38.6	2.44	54.0	2.85	72.5	3.26	88.5	3.67	125.3	4.08	156.0	4.49	186.8	4.90	225.0		
2.04	39.0	2.45	54.4	2.86	73.0	3.27	88.9	3.68	126.0	4.09	156.8	4.50	187.5	4.91	225.8		
2.05	39.4	2.46	54.7	2.87	73.5	3.28	89.2	3.69	126.8	4.10	157.5	4.51	188.3	4.92	226.5		
2.06	39.8	2.47	55.1	2.88	74.0	3.29	89.6	3.70	127.5	4.11	158.3	4.52	189.0	4.93	227.3		
2.07	40.1	2.48	55.5	2.89	74.5	3.30	90.0	3.71	128.3	4.12	159.0	4.53	189.8	4.94	228.0		
2.08	40.5	2.49	55.9	2.90	75.0	3.31	91.5	3.72	129.0	4.13	159.8	4.54	190.5	4.95	228.8		
2.09	40.9	2.50	56.2	2.91	75.4	3.32	93.0	3.73	129.8	4.14	160.5	4.55	191.3	4.96	229.5		
2.10	41.2	2.51	56.6	2.92	75.8	3.33	94.5	3.74	130.5	4.15	161.3	4.56	192.0	4.97	230.3		
2.11	41.6	2.52	57.0	2.93	76.1	3.34	96.0	3.75	131.3	4.16	162.0	4.57	192.8	4.98	231.0		
2.12	42.0	2.53	57.4	2.94	76.5	3.35	97.5	3.76	132.0	4.17	162.8	4.58	193.5	4.99	231.8		
2.13	42.4	2.54	57.7	2.95	76.9	3.36	99.0	3.77	132.8	4.18	163.5	4.59	194.3	5.00	232.5		
2.14	42.7	2.55	58.1	2.96	77.3	3.37	100.5	3.78	133.5	4.19	164.3	4.60	195.0	5.01	233.3		
2.15	43.1	2.56	58.5	2.97	77.6	3.38	102.0	3.79	134.3	4.20	165.0	4.61	195.8	5.02	234.0		
2.16	43.5	2.57	58.9	2.98	78.0	3.39	103.5	3.80	135.0	4.21	165.8	4.62	196.5	5.03	234.8		
2.17	43.9	2.58	59.2	2.99	78.4	3.40	105.0	3.81	135.8	4.22	166.5	4.63	197.3	5.04	235.5		
2.18	44.2	2.59	59.6	3.00	78.7	3.41	105.8	3.82	136.5	4.23	167.3	4.64	198.0	5.05	236.3		
2.19	44.6	2.60	60.0	3.01	79.1	3.42	106.5	3.83	137.3	4.24	168.0	4.65	198.8	5.06	237.0		
2.20	45.0	2.61	60.5	3.02	79.5	3.43	107.3	3.84	138.0	4.25	168.8	4.66	199.5	5.07	237.8		