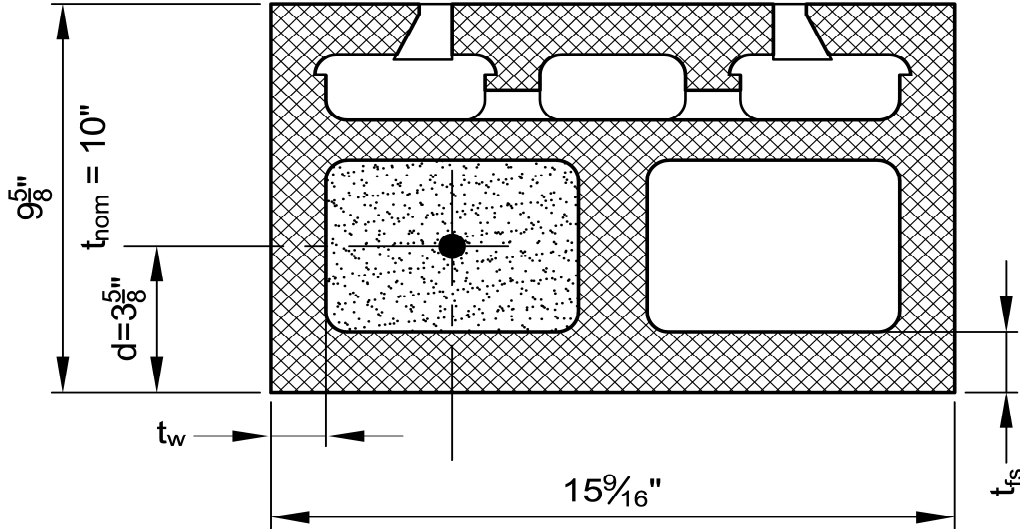


SoundBloX: 10" RSC/RF
7-5/8" x 9-5/8" x 15-9/16"



Concrete Masonry Wall Properties

t_{nom}	10 in
Bar Size	4
t_{fs}	1.5 in
t_w	1.25 in

Steel Reinforcement Properties

A_s	0.2 in ²
E_s	29,000,000 psi
f_y	60,000 psi
F_s	24,000 psi

Partially Grouted Masonry

Out-of-Plane Resisting Moment and Shear (Allowable Moment is based on the effective depth taken from the non-acoustic face of the masonry block)

For Effective Depth, $d = 3.63$ in

Spacing (in)	f'_m (psi)	1350		1500		2000		3000	
	A_s' (in ² /ft)	M_r (in-lb/ft)	V_r (lb/ft)	M_r (in-lb/ft)	V_r (lb/ft)	M_r (in-lb/ft)	V_r (lb/ft)	M_r (in-lb/ft)	V_r (lb/ft)
8	0.30	13,128	1,598	14,125	1,685	17,176	1,945	22,408	2,175
16	0.15	10,467	1,598	11,204	1,685	11,822	1,945	12,016	2,175
24	0.10	7,885	1,598	7,921	1,685	8,011	1,945	8,123	2,175
32	0.08	5,984	1,598	6,008	1,685	6,069	1,945	6,145	2,175
40	0.06	4,827	1,598	4,845	1,685	4,890	1,945	4,945	2,175
48	0.05	4,048	1,598	4,062	1,685	4,097	1,945	4,139	2,175
56	0.04	3,487	1,598	3,498	1,685	3,526	1,945	3,560	2,175
64	0.04	3,057	1,498	3,067	1,579	3,091	1,824	3,120	2,039
72	0.03	2,718	1,332	2,726	1,404	2,747	1,621	2,773	1,813
80	0.03	2,446	1,199	2,453	1,264	2,473	1,459	2,496	1,631
88	0.03	2,223	1,090	2,230	1,149	2,248	1,326	2,269	1,483
96	0.03	2,038	999	2,045	1,053	2,060	1,216	2,080	1,359

Concrete Masonry Wall Properties

t_{nom} 10 in
 Bar Size 5
 t_{fs} 1.5 in
 t_w 1.25 in

Steel Reinforcement Properties

A_s 0.31 in²
 E_s 29,000,000 psi
 f_y 60,000 psi
 F_s 24,000 psi

Partially Grouted Masonry

Out-of-Plane Resisting Moment and Shear (Allowable Moment is based on the effective depth taken from the non-acoustic face of the masonry block)

For Effective Depth, $d = 3.63$ in

Spacing (in)	f'_m (psi)	1350		1500		2000		3000	
	A_s' (in ² /ft)	M_r (in-lb/ft)	V_r (lb/ft)	M_r (in-lb/ft)	V_r (lb/ft)	M_r (in-lb/ft)	V_r (lb/ft)	M_r (in-lb/ft)	V_r (lb/ft)
8	0.47	14,863	1,598	16,053	1,685	19,714	1,945	26,045	2,175
16	0.23	12,128	1,598	13,022	1,685	15,753	1,945	18,297	2,175
24	0.16	10,588	1,598	11,336	1,685	12,198	1,945	12,402	2,175
32	0.12	9,106	1,598	9,149	1,685	9,259	1,945	9,397	2,175
40	0.09	7,356	1,598	7,388	1,685	7,470	1,945	7,572	2,175
48	0.08	6,176	1,598	6,201	1,685	6,265	1,945	6,344	2,175
56	0.07	5,325	1,598	5,345	1,685	5,397	1,945	5,461	2,175
64	0.06	4,671	1,498	4,688	1,579	4,732	1,824	4,787	2,039
72	0.05	4,152	1,332	4,167	1,404	4,206	1,621	4,255	1,813
80	0.05	3,737	1,199	3,751	1,264	3,786	1,459	3,829	1,631
88	0.04	3,397	1,090	3,410	1,149	3,442	1,326	3,481	1,483
96	0.04	3,114	999	3,125	1,053	3,155	1,216	3,191	1,359

Concrete Masonry Wall Properties

t_{nom} 10 in
 Bar Size 6
 t_{fs} 1.5 in
 t_w 1.25 in

Steel Reinforcement Properties

A_s 0.44 in²
 E_s 29,000,000 psi
 f_y 60,000 psi
 F_s 24,000 psi

Partially Grouted Masonry

Out-of-Plane Resisting Moment and Shear (Allowable Moment is based on the effective depth taken from the non-acoustic face of the masonry block)

For Effective Depth, $d = 3.63$ in

Spacing (in)	f'_m (psi)	1350		1500		2000		3000	
	A_s' (in ² /ft)	M_r (in-lb/ft)	V_r (lb/ft)	M_r (in-lb/ft)	V_r (lb/ft)	M_r (in-lb/ft)	V_r (lb/ft)	M_r (in-lb/ft)	V_r (lb/ft)
8	0.66	16,221	1,598	17,576	1,685	21,770	1,945	29,085	2,175
16	0.33	13,491	1,598	14,538	1,685	17,720	1,945	23,178	2,175
24	0.22	11,913	1,598	12,787	1,685	15,452	1,945	17,355	2,175
32	0.17	10,820	1,598	11,589	1,685	12,949	1,945	13,170	2,175
40	0.13	10,003	1,598	10,329	1,685	10,460	1,945	10,623	2,175
48	0.11	8,638	1,598	8,678	1,685	8,780	1,945	8,908	2,175
56	0.09	7,453	1,598	7,486	1,685	7,569	1,945	7,673	2,175
64	0.08	6,541	1,498	6,569	1,579	6,640	1,824	6,728	2,039
72	0.07	5,814	1,332	5,839	1,404	5,902	1,621	5,980	1,813
80	0.07	5,232	1,199	5,255	1,264	5,312	1,459	5,382	1,631
88	0.06	4,757	1,090	4,777	1,149	4,829	1,326	4,893	1,483
96	0.06	4,360	999	4,379	1,053	4,426	1,216	4,485	1,359

Concrete Masonry Wall Properties

Steel Reinforcement Properties

t_{nom} 10 in
 Bar Size 7
 t_{fs} 1.5 in
 t_w 1.25 in

A_s 0.6 in²
 E_s 29,000,000 psi
 f_y 60,000 psi
 F_s 24,000 psi

Partially Grouted Masonry

Out-of-Plane Resisting Moment and Shear (Allowable Moment is based on the effective depth taken from the non-acoustic face of the masonry block)

For Effective Depth, $d = 3.63$ in

Spacing (in)	f'_m (psi)	1350		1500		2000		3000	
	A_s' (in ² /ft)	M_r (in-lb/ft)	V_r (lb/ft)	M_r (in-lb/ft)	V_r (lb/ft)	M_r (in-lb/ft)	V_r (lb/ft)	M_r (in-lb/ft)	V_r (lb/ft)
8	0.90	17,366	1,598	18,872	1,685	23,562	1,945	31,817	2,175
16	0.45	14,650	1,598	15,849	1,685	19,514	1,945	25,765	2,175
24	0.30	13,122	1,598	14,125	1,685	17,176	1,945	22,408	2,175
32	0.23	12,000	1,598	12,882	1,685	15,574	1,945	17,732	2,175
40	0.18	11,146	1,598	11,946	1,685	14,070	1,945	14,318	2,175
48	0.15	10,467	1,598	11,204	1,685	11,822	1,945	12,016	2,175
56	0.13	9,908	1,598	10,073	1,685	10,199	1,945	10,357	2,175
64	0.11	8,799	1,498	8,841	1,579	8,949	1,824	9,084	2,039
72	0.10	7,821	1,332	7,859	1,404	7,955	1,621	8,075	1,813
80	0.09	7,039	1,199	7,073	1,264	7,159	1,459	7,267	1,631
88	0.08	6,399	1,090	6,430	1,149	6,508	1,326	6,607	1,483
96	0.08	5,866	999	5,894	1,053	5,966	1,216	6,056	1,359

Concrete Masonry Wall Properties

Steel Reinforcement Properties

t_{nom} 10 in
 Bar Size 8
 t_{fs} 1.5 in
 t_w 1.25 in

A_s 0.79 in²
 E_s 29,000,000 psi
 f_y 60,000 psi
 F_s 24,000 psi

Partially Grouted Masonry

Out-of-Plane Resisting Moment and Shear (Allowable Moment is based on the effective depth taken from the non-acoustic face of the masonry block)

For Effective Depth, $d = 3.63$ in

Spacing (in)	f'_m (psi)	1350		1500		2000		3000	
	A_s' (in ² /ft)	M_r (in-lb/ft)	V_r (lb/ft)	M_r (in-lb/ft)	V_r (lb/ft)	M_r (in-lb/ft)	V_r (lb/ft)	M_r (in-lb/ft)	V_r (lb/ft)
8	1.19	18,314	1,598	19,955	1,685	25,094	1,945	34,222	2,175
16	0.59	15,616	1,598	16,949	1,685	21,062	1,945	28,140	2,175
24	0.40	14,152	1,598	15,295	1,685	18,760	1,945	24,663	2,175
32	0.30	13,073	1,598	14,070	1,685	17,105	1,945	22,307	2,175
40	0.24	12,202	1,598	13,104	1,685	15,859	1,945	18,636	2,175
48	0.20	11,498	1,598	12,332	1,685	14,871	1,945	15,651	2,175
56	0.17	10,915	1,598	11,694	1,685	13,270	1,945	13,499	2,175
64	0.15	9,992	1,498	10,700	1,579	11,647	1,824	11,843	2,039
72	0.13	8,882	1,332	9,511	1,404	10,353	1,621	10,527	1,813
80	0.12	7,994	1,199	8,560	1,264	9,318	1,459	9,474	1,631
88	0.11	7,267	1,090	7,782	1,149	8,471	1,326	8,613	1,483
96	0.10	6,662	999	7,133	1,053	7,765	1,216	7,895	1,359