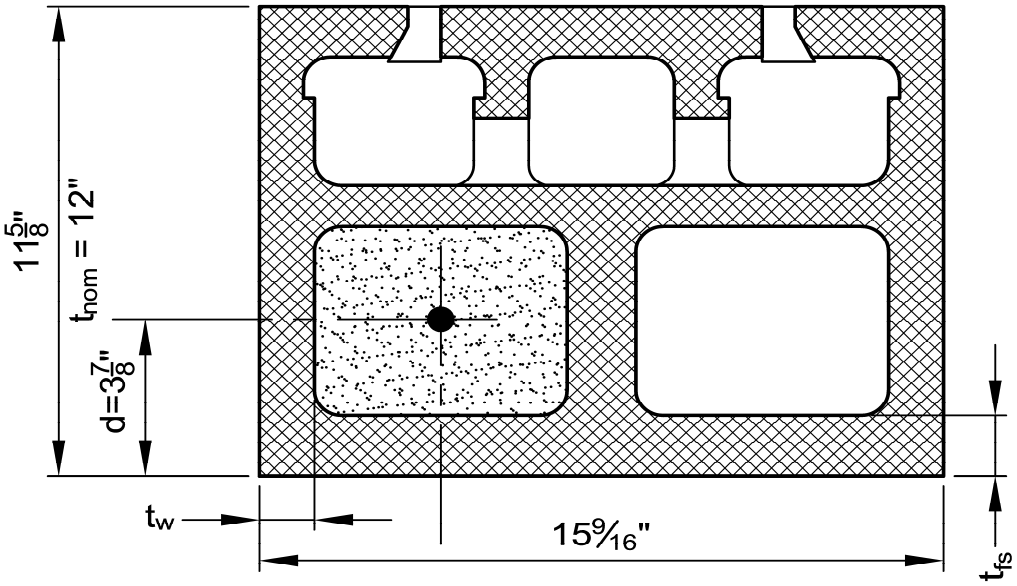
SoundBlox: 12" RSC/RF
7-5/8" x 11-5/8" x 15-9/16"



Concrete Masonry Wall Properties		Steel Reinforcement Properties	
t_{nom}	12 in	A_s	0.2 in^2
Bar Size	4	E_s	29,000,000 psi
t_{fs}	1.625 in	f_y	60,000 psi
t_w	1.25 in	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 = 3.88 in

	f'_m (psi)	1350		1500		2000		3000	
Spacing (in)	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	14,700	1,709	15,808	1,801	19,196	2,080	24,998	2,325
16	0.15	11,682	1,709	12,499	1,801	12,673	2,080	12,876	2,325
24	0.10	8,453	1,709	8,490	1,801	8,584	2,080	8,701	2,325
32	0.08	6,413	1,709	6,438	1,801	6,502	2,080	6,581	2,325
40	0.06	5,172	1,709	5,191	1,801	5,237	2,080	5,295	2,325
48	0.05	4,336	1,709	4,351	1,801	4,387	2,080	4,432	2,325
56	0.04	3,735	1,709	3,746	1,801	3,776	2,080	3,811	2,325
64	0.04	3,281	1,709	3,290	1,801	3,315	2,080	3,344	2,325
72	0.03	2,926	1,709	2,934	1,801	2,954	2,080	2,979	2,325
80	0.03	2,633	1,538	2,640	1,621	2,659	1,872	2,682	2,093
88	0.03	2,394	1,398	2,400	1,473	2,417	1,701	2,438	1,902
96	0.03	2,194	1,281	2,200	1,351	2,216	1,560	2,235	1,744

Concrete Masonry Wall Properties

t_{nom}	12	in
Bar Size	5	
t_{fs}	1.625	in
t_w	1.25	in

Steel Reinforcement Properties

A_s	0.31	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 = 3.88 in

	f'_m (psi)	1350		1500		2000		3000	
Spacing (in)	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	16,684	1,709	18,008	1,801	22,080	2,080	29,112	2,325
16	0.23	13,563	1,709	14,556	1,801	17,586	2,080	19,616	2,325
24	0.16	11,818	1,709	12,648	1,801	13,077	2,080	13,290	2,325
32	0.12	9,763	1,709	9,808	1,801	9,923	2,080	10,067	2,325
40	0.09	7,885	1,709	7,919	1,801	8,004	2,080	8,110	2,325
48	0.08	6,619	1,709	6,645	1,801	6,712	2,080	6,794	2,325
56	0.07	5,706	1,709	5,727	1,801	5,781	2,080	5,847	2,325
64	0.06	5,016	1,709	5,034	1,801	5,078	2,080	5,134	2,325
72	0.05	4,476	1,709	4,491	1,801	4,529	2,080	4,576	2,325
80	0.05	4,029	1,538	4,042	1,621	4,076	1,872	4,118	2,093
88	0.04	3,662	1,398	3,675	1,473	3,706	1,701	3,744	1,902
96	0.04	3,357	1,281	3,368	1,351	3,397	1,560	3,432	1,744

Concrete Masonry Wall Properties

t_{nom}	12	in
Bar Size	6	
t_{fs}	1.625	in
t_w	1.25	in

Steel Reinforcement Properties

A_s	0.44	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 = 3.88 in

	f'_m (psi)	1350		1500		2000		3000	
Spacing (in)	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	18,245	1,709	19,756	1,801	24,430	2,080	32,567	2,325
16	0.33	15,126	1,709	16,283	1,801	19,813	2,080	25,868	2,325
24	0.22	13,319	1,709	14,289	1,801	17,245	2,080	18,605	2,325
32	0.17	12,081	1,709	12,934	1,801	13,883	2,080	14,114	2,325
40	0.13	11,022	1,709	11,075	1,801	11,211	2,080	11,383	2,325
48	0.11	9,261	1,709	9,302	1,801	9,410	2,080	9,543	2,325
56	0.09	7,990	1,709	8,024	1,801	8,111	2,080	8,219	2,325
64	0.08	7,029	1,709	7,057	1,801	7,130	2,080	7,220	2,325
72	0.07	6,276	1,709	6,300	1,801	6,362	2,080	6,438	2,325
80	0.07	5,648	1,538	5,670	1,621	5,726	1,872	5,794	2,093
88	0.06	5,135	1,398	5,155	1,473	5,205	1,701	5,268	1,902
96	0.06	4,707	1,281	4,725	1,351	4,772	1,560	4,829	1,744

Concrete Masonry Wall Properties

t_{nom}	12	in
Bar Size	7	
t_{fs}	1.625	in
t_w	1.25	in

Steel Reinforcement Properties

A_s	0.6	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 = 3.88 in

	f'_m (psi)	1350		1500		2000		3000	
Spacing (in)	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	19,569	1,709	21,253	1,801	26,489	2,080	35,685	2,325
16	0.45	16,474	1,709	17,804	1,801	21,861	2,080	28,795	2,325
24	0.30	14,700	1,709	15,808	1,801	19,196	2,080	24,998	2,325
32	0.23	13,418	1,709	14,397	1,801	17,383	2,080	19,010	2,325
40	0.18	12,450	1,709	13,337	1,801	15,087	2,080	15,346	2,325
48	0.15	11,682	1,709	12,499	1,801	12,673	2,080	12,876	2,325
56	0.13	10,748	1,709	10,800	1,801	10,932	2,080	11,097	2,325
64	0.11	9,462	1,709	9,505	1,801	9,615	2,080	9,753	2,325
72	0.10	8,453	1,709	8,490	1,801	8,584	2,080	8,701	2,325
80	0.09	7,608	1,538	7,641	1,621	7,726	1,872	7,831	2,093
88	0.08	6,916	1,398	6,946	1,473	7,024	1,701	7,119	1,902
96	0.08	6,340	1,281	6,368	1,351	6,438	1,560	6,526	1,744

Concrete Masonry Wall Properties

t_{nom}	12	in
Bar Size	8	
t_{fs}	1.625	in
t_w	1.25	in

Steel Reinforcement Properties

A_s	0.79	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 = 3.88 in

	f'_m (psi)	1350		1500		2000		3000	
Spacing (in)	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	20,673	1,709	22,510	1,801	28,258	2,080	38,444	2,325
16	0.59	17,603	1,709	19,088	1,801	23,658	2,080	31,491	2,325
24	0.40	15,904	1,709	17,168	1,801	20,994	2,080	27,547	2,325
32	0.30	14,644	1,709	15,746	1,801	19,116	2,080	24,725	2,325
40	0.24	13,647	1,709	14,649	1,801	17,705	2,080	19,979	2,325
48	0.20	12,849	1,709	13,774	1,801	16,483	2,080	16,776	2,325
56	0.17	12,189	1,709	13,052	1,801	14,228	2,080	14,467	2,325
64	0.15	11,630	1,709	12,362	1,801	12,521	2,080	12,721	2,325
72	0.13	10,995	1,709	11,048	1,801	11,184	2,080	11,355	2,325
80	0.12	9,896	1,538	9,943	1,621	10,066	1,872	10,219	2,093
88	0.11	8,996	1,398	9,039	1,473	9,151	1,701	9,290	1,902
96	0.10	8,246	1,281	8,286	1,351	8,388	1,560	8,516	1,744