



# SHELTER CONSTRUCTION COMPARISON

	<b>SHELTER WORKS</b>	<b>STEEL SHELTERS</b>	<b>ALUMINUM SHELTERS</b>
<b>STRENGTH</b>	★★★★★ Superior flexural strength. Pound for pound stronger than metal	★★★	★★
<b>CORROSION RESISTANCE</b>	★★★★★ Unaffected by moisture or immersion in water. Will not rust!	★★ Subject to oxidation. Requires paint/galvanizing	★★★ Subject to galvanic corrosion and oxidation without paint
<b>CHEMICAL RESISTANCE</b>	★★★★★ Impervious to most chemicals	★★ May need special coating to enhance chemical resistance	★★ May need special coating to enhance chemical resistance
<b>IMPACT RESISTANCE</b>	★★★★★ Will not permanently deform under impact	★★ Can permanently deform under impact	★ Can easily deform under impact
<b>THERMAL INSULATION PROPERTIES</b>	★★★★★ Composite design provides inherent thermal barrier and dimensional stability with low conduction	★★ Conductive material, expansion probable. Requires additional steps to control thermal transfer	★★ Conductive material, expansion probable. Requires additional steps to control thermal transfer
<b>COLOR</b>	★★★★★ Color is molded into exterior surfaces and bonded on a molecular level. Includes durable UV inhibitors	★★ Paints must be applied directly to surface. Adhesion subject to preparation. Rust likely with surface abrasions	★★ Paints must be applied directly to surface. Adhesion subject to preparation
<b>ELECTRICAL CONDUCTION</b>	★★★★★ Nonconductive - High dielectric capability	Conducts electricity. Requires grounding	Conducts electricity. Requires grounding
<b>EMI/RFI TRANSPARENCY</b>	★★★★★ Transparent	May interfere with EMI and RFI Transmissions	May interfere with EMI and RFI Transmissions
<b>WEIGHT</b>	★★★★★ Ultra-Light: ~ 70% less than steel, 25% less than aluminum. Reduces transportation/foundation cost	Heavy	Light
<b>FREEDOM FROM MAINTENANCE</b>	★★★★★ Virtually maintenance free	★★ Requires Routine Maintenance	★★★ Requires some maintenance
<b>USEFUL LIFESPAN</b>	★★★★★ 60+ years	★★	★★★
<b>WARRANTY</b>	★★★★★ 25 years	Typically 1- 5 years	Typically 1-10 years
<b>COST OF OWNERSHIP</b>	★★★★★ Lowest lifetime cost of ownership	★	★

## SHELTER WORKS FREEDOM SERIES WEIGHT CHART (Approximate Weight - LBS)

Wall Height 8 Feet  
Width (Feet)

Length (Feet)	4	6	8	10	12	14	16
4	450						
6	540	640					
8	630	740	850				
10	720	840	950	1,070			
12	810	940	1,060	1,190	1,310		
14	900	1,030	1,170	1,300	1,440	1,570	
16	990	1,130	1,280	1,420	1,570	1,710	1,850
18	1,080	1,230	1,390	1,540	1,690	1,840	2,000
20	1,170	1,330	1,490	1,660	1,820	1,980	2,140
22	1,260	1,430	1,600	1,770	1,940	2,110	2,290
24	1,350	1,530	1,710	1,890	2,070	2,250	2,430
26	1,440	1,630	1,820	2,010	2,200	2,380	2,570
28	1,530	1,730	1,930	2,120	2,320	2,520	2,720
30	1,620	1,830	2,030	2,240	2,450	2,650	2,860
32	1,710	1,930	2,140	2,360	2,570	2,790	3,010
34	1,800	2,020	2,250	2,470	2,700	2,920	3,150
36	1,890	2,120	2,360	2,590	2,830	3,060	3,290
38	1,980	2,220	2,470	2,710	2,950	3,190	3,440
40	2,070	2,320	2,570	2,830	3,080	3,330	3,580

Note: Standard Construction with 1.5" Foam Core, 1 Door, No Floor, Equipment or Components

Wall Height 8 Feet  
Width (Feet)

Length (Feet)	4	6	8	10	12	14	16
4	740						
6	910	1,090					
8	1,080	1,280	1,490				
10	1,250	1,470	1,690	1,910			
12	1,420	1,660	1,890	2,130	2,370		
14	1,590	1,840	2,100	2,350	2,610	2,860	
16	1,760	2,030	2,300	2,570	2,850	3,120	3,390
18	1,930	2,220	2,510	2,790	3,080	3,370	3,660
20	2,100	2,400	2,710	3,020	3,320	3,630	3,930
22	2,270	2,590	2,910	3,240	3,560	3,880	4,210
24	2,440	2,780	3,120	3,460	3,800	4,140	4,480
26	2,610	2,960	3,320	3,680	4,040	4,390	4,750
28	2,780	3,150	3,530	3,900	4,270	4,650	5,020
30	2,950	3,340	3,730	4,120	4,510	4,900	5,290
32	3,120	3,530	3,930	4,340	4,750	5,160	5,570
34	3,290	3,710	4,140	4,560	4,990	5,410	5,840
36	3,460	3,900	4,340	4,780	5,230	5,670	6,110
38	3,630	4,090	4,550	5,000	5,460	5,920	6,380
40	3,800	4,270	4,750	5,230	5,700	6,180	6,650

Note: Standard Construction with 1.5" Foam Core and 19/23" OSB, 1 Door, No Floor, Equipment or Components

Wall Height 10 Feet  
Width (Feet)

Length (Feet)	4	6	8	10	12	14	16
4	520						
6	630	750					
8	740	860	990				
10	850	980	1,120	1,250			
12	950	1,100	1,240	1,390	1,530		
14	1,060	1,210	1,370	1,520	1,670	1,830	
16	1,170	1,330	1,490	1,660	1,820	1,980	2,140
18	1,280	1,450	1,620	1,790	1,960	2,130	2,300
20	1,390	1,570	1,750	1,930	2,110	2,290	2,470
22	1,490	1,680	1,870	2,060	2,250	2,440	2,630
24	1,600	1,800	2,000	2,200	2,390	2,590	2,790
26	1,710	1,920	2,120	2,330	2,540	2,740	2,950
28	1,820	2,030	2,250	2,470	2,680	2,900	3,110
30	1,930	2,150	2,380	2,600	2,830	3,050	3,280
32	2,030	2,270	2,500	2,740	2,970	3,200	3,440
34	2,140	2,380	2,630	2,870	3,110	3,360	3,600
36	2,250	2,500	2,750	3,010	3,260	3,510	3,760
38	2,360	2,620	2,880	3,140	3,400	3,660	3,920
40	2,470	2,740	3,010	3,280	3,550	3,820	4,090

Note: Standard Construction with 1.5" Foam Core, 1 Door, No Floor, Equipment or Components

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Width (Feet)

Length (Feet)	4	6	8	10	12	14	16
4	870						
6	1,080	1,300					
8	1,280	1,520	1,760				
10	1,490	1,740	2,000	2,250			
12	1,690	1,960	2,230	2,510	2,780		
14	1,890	2,180	2,470	2,760	3,050	3,340	
16	2,100	2,400	2,710	3,020	3,320	3,630	3,930
18	2,300	2,620	2,950	3,270	3,590	3,920	4,240
20	2,510	2,850	3,190	3,530	3,870	4,210	4,550
22	2,710	3,070	3,420	3,780	4,140	4,490	4,850
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32	3,730	4,170	4,610	5,060	5,500	5,940	6,380
34	3,930	4,390	4,850	5,310	5,770	6,230	6,690
36	4,140	4,610	5,090	5,570	6,040	6,520	6,990
38	4,340	4,830	5,330	5,820	6,310	6,810	7,300
40	4,550	5,060	5,570	6,080	6,590	7,100	7,610

Note: Standard Construction with 1.5" Foam Core and 19/23" OSB, 1 Door, No Floor, Equipment or Components

