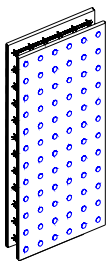
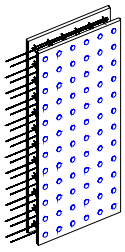
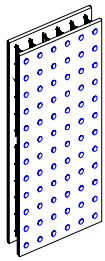
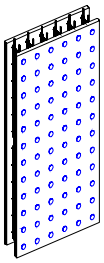
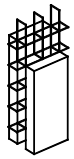
1.1. GENERAL SPECIFICATIONS

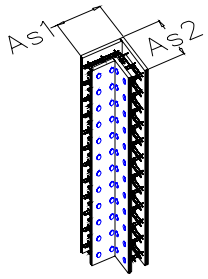
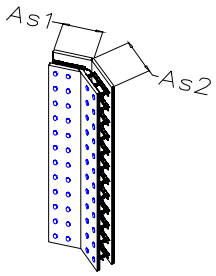
SKETCH	DIMENSION	CONCRETE CORE THICKNESS					
		100 [4”]	150 [6”]	200 [8”]	250 [10”]	300 [12”]	350 [14”]
Basic Products							
H-Plain Panel (Horizontal spacers)							
	Length	1200 [48”]	1200 [48”]	1200 [48”]	1200 [48”]	1200 [48”]	1200 [48”]
	Height	2400 [96”]	2400 [96”]	2400 [96”]	2400 [96”]	2400 [96”]	2400 [96”]
	Exterior Surface Area: m²/ ft²	2.97 [32]	2.97 [32]	2.97 [32]	2.97 [32]	2.97 [32]	2.97 [32]
	EPS thickness	50 [2”]	50 [2”]	50 [2”]	50 [2”]	50 [2”]	50 [2”]
	Weight: kg/ lbs	15.4 [33.9]	16.0 [35.2]	16.6 [36.5]	17.2 [37.8]	18.3 [40.3]	18.4 [40.5]
	R, value [h·ft²·°F/BTU]	20.3	20.6	20.8	21.0	21.2	21.5
HR-Plain Panel (Horizontal spacers & Horizontal Reinforcement)							
	Length	1200 [48”]	1200 [48”]	1200 [48”]	1200 [48”]	1200 [48”]	1200 [48”]
	Height	2400 [96”]	2400 [96”]	2400 [96”]	2400 [96”]	2400 [96”]	2400 [96”]
	Exterior Surface Area: m²/ ft²	2.97 [32]	2.97 [32]	2.97 [32]	2.97 [32]	2.97 [32]	2.97 [32]
	EPS thickness	50 [2”]	50 [2”]	50 [2”]	50 [2”]	50 [2”]	50 [2”]
	Weight: kg/ lbs	18.4 [40.4]	24.8 [54.5]	26.2 [57.6]	34.6 [76.1]	35.2 [77.4]	35.8 [78.6]
	R, value [h·ft²·°F/BTU]	20.3	20.6	20.8	21.0	21.2	21.5

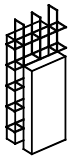
GENERAL SPECIFICATIONS Continued

SKETCH	DIMENSION	CONCRETE CORE THICKNESS					
		100 [4”]	150 [6”]	200 [8”]	250 [10”]	300 [12”]	350 [14”]
V- Plain Panel (Vertical spacers)							
	Length	1200 [48”]	1200 [48”]	1200 [48”]	1200 [48”]	1200 [48”]	1200 [48”]
	Height	2400 [96”]	2400 [96”]	2400 [96”]	2400 [96”]	2400 [96”]	2400 [96”]
	Exterior Surface Area m²/ ft²	2.97 [32]	2.97 [32]	2.97 [32]	2.97 [32]	2.97 [32]	2.97 [32]
	EPS thickness	50 [2”]	50 [2”]	50 [2”]	50 [2”]	50 [2”]	50 [2”]
	Weight: kg/ lbs	15.4 [33.9]	16.0 [35.2]	16.6 [36.5]	17.2 [37.8]	18.3 [40.3]	18.5 [40.7]
	R, value [h·ft²·°F/BTU]	20.3	20.6	20.8	21.0	21.2	21.5
VR- Plain Panel (Vertical spacers & Vertical Reinforcement)							
	Length	1200 [48”]	1200 [48”]	1200 [48”]	1200 [48”]	1200 [48”]	1200 [48”]
	Height	2400 [96”]	2400 [96”]	2400 [96”]	2400 [96”]	2400 [96”]	2400 [96”]
	Exterior Surface Area: m²/ ft²	2.97 [32]	2.97 [32]	2.97 [32]	2.97 [32]	2.97 [32]	2.97 [32]
	EPS thickness	50 [2”]	50 [2”]	50 [2”]	50 [2”]	50 [2”]	50 [2”]
	Weight: kg/ lbs	18.4 [40.4]	24.8 [54.5]	26.2 [57.6]	34.6 [76.1]	35.2 [77.4]	35.8 [78.6]
	R, value [h·ft²·°F/BTU]	20.3	20.6	20.8	21.0	21.2	21.5

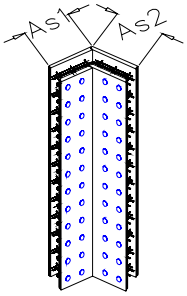
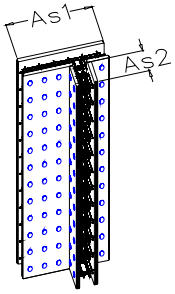


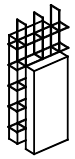
GENERAL SPECIFICATIONS Continued

SKETCH	DIMENSION	CONCRETE CORE THICKNESS					
		100 [4"]	150 [6"]	200 [8"]	250 [10"]	300 [12"]	350 [14"]
90° Corner Panel (Horizontal spacers & Horizontal Reinforcement)							
	Length	650 [26"]	650 [26"]	650 [26"]	780 [31"]	780 [31"]	850 [33.5"]
	Width	595 [23"]	595 [23"]	595 [23"]	595 [23"]	595 [23"]	595 [23"]
	Height	2400 [96"]	2400 [96"]	2400 [96"]	2400 [96"]	2400 [96"]	2400 [96"]
	Exterior Surface Area m^2/ ft^2 (As1+As2)	2.99 [32.7]	2.99 [32.7	2.99 [32.7	3.30 [36]	3.30 [36]	3.45 [37.7]
	EPS thickness	50 [2"]	50 [2"]	50 [2"]	50 [2"]	50 [2"]	50 [2"]
	Weight: kg/ lbs	21.2 [46.6]	21.6 [47.5]	22.0 [48.4]	22.4 [49.3]	23.1 [50.8]	23.7 [52.1]
	R, value [h·ft²·°F/BTU]	20.3	20.6	20.8	21.0	21.2	21.5
45° Corner Panel (Horizontal spacers & Horizontal Reinforcement)							
	Length	660 [26"]	660 [26"]	680 [27"]	705 [28"]	620 [24.4"]	620 [24.4"]
	Width	535 [21"]	535 [21"]	585 [23"]	585 [23"]	585 [23"]	585 [23"]
	Height	2400 [96"]	2400 [96"]	2400 [96"]	2400 [96"]	2400 [96"]	2400 [96"]
	Exterior Surface Area m^2/ ft^2 (As1+As2)	2.87 [31.3]	2.87 [31.3	3.04 [32.7	3.10 [34]	2.89 [31.6]	2.89 [31.6]
	EPS thickness	50 [2"]	50 [2"]	50 [2"]	50 [2"]	50 [2"]	50 [2"]
	Weight: kg/ lbs	21.2 [46.6]	21.6 [47.5]	22.0 [48.4]	22.4 [49.3]	23.1 [[50.8]	23.7 [52.1]
	R, value [h·ft²·°F/BTU]	20.3	20.6	20.8	21.0	21.2	21.5

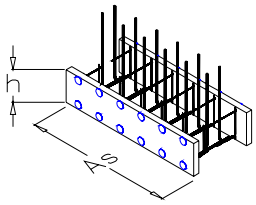
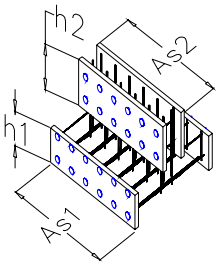


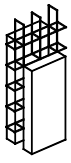
GENERAL SPECIFICATIONS Continued

SKETCH	DIMENSION	CONCRETE CORE THICKNESS					
		100 [4”]	150 [6”]	200 [8”]	250 [10”]	300 [12”]	350 [14”]
30° Corner Panel (Horizontal spacers & Horizontal Reinforcement)							
	Length	650 [25.6”]	650 [25.6”]	650 [25.6”]	780 [30.7”]	780 [30.7”]	850 [33.5”]
	Width	595 [23.4”]	595 [23.4”]	595 [23.4”]	595 [23.4”]	595 [23.4”]	595 [23.4”]
	Height	2400 [96”]	2400 [96”]	2400 [96”]	2400 [96”]	2400 [96”]	2400 [96”]
	Exterior Surface Area m²/ ft² (As1+As2)	2.99 [31.3]	2.99 [31.3	2.99 [32.7	3.30 [34]	3.30 [31.6]	3.45 [31.6]
	EPS thickness	50 [2”]	50 [2”]	50 [2”]	50 [2”]	50 [2”]	50 [2”]
	Weight: kg/ lbs	21.2 [46.6]	21.6 [47.5]	22.0 [48.4]	22.4 [49.3]	23.1 [[50.8]	23.7 [52.1]
	R, value [h·ft²·°F/BTU]	20.3	20.6	20.8	21.0	21.2	21.5
T- Panel (Horizontal spacers & Horizontal Reinforcement)							
	Length	1200 [48”]	1200 [48”]	1200 [48”]	1200 [48”]	1200 [48”]	1200 [48”]
	Width	348 [14”]	348 [14”]	346 [14”]	346 [13.6”	346 [13.6”]	346 [13.6”]
	Height	2400 [96”]	2400 [96”]	2400 [96”]	2400 [96”]	2400 [96”]	2400 [96”]
	Exterior Surface Area m²/ ft² (As1+As2)	3.81 [41.3]	3.81 [41.3	3.81 [41.3	3.81 [41.3]	3.81 [41.3]	3.81 [41.3]
	EPS thickness	50 [2”]	50 [2”]	50 [2”]	50 [2”]	50 [2”]	50 [2”]
	Weight: kg/ lbs	33.2 [73.0]	33.7 [74.1]	34.3 [75.5]	35.2 [77.4]	36.1 [79.4]	36.6 [80.5]
	R, value [h·ft²·°F/BTU]	20.3	20.6	20.8	21.0	21.2	21.5

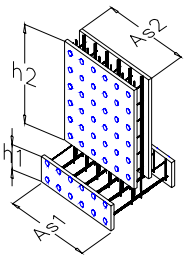


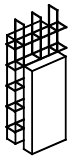
GENERAL SPECIFICATIONS Continued

SKETCH	DIMENSION	CONCRETE CORE THICKNESS					
		100 [4”]	150 [6”]	200 [8”]	250 [10”]	300 [12”]	350 [14”]
HVF- Foundation Panel (Vertical spacers & Dowels)							
	Length	1200 [48”]	1200 [48”]	1200 [48”]	1200 [48”]	1200 [48”]	1200 [48”]
	Footing thickness	460 [18”]	460 [18”]	460 [18”]	510 [20”]	560 [22”]	610 [24”]
	Height	300 [12”]	300 [12”]	300 [12”]	300 [12”]	300 [12”]	300 [12”]
	Exterior (As) Surface Area m²/ ft²	0.36 [9.3”]	0.36 [9.3”]	0.36 [9.3”]	0.36 [9.3”]	0.36 [9.3”]	0.36 [9.3”]
	Weight: kg/ lbs	10.1 22.2	11.0 24.2	17.6 38.7	18.5 40.7	19.4 42.7	20.3 44.7
	EPS thickness	50 [2”]	50 [2”]	50 [2”]	50 [2”]	50 [2”]	50 [2”]
HRF- Foundation Panel (Vertical spacers & Dowels)							
	Length	1200 [48”]	1200 [48”]	1200 [48”]	1200 [48”]	1200 [48”]	1200 [48”]
	Footing Thickness	460 [18”]	460 [18”]	510 [20”]	560 [22”]	610 [24”]	610 [24”]
	Height (h1)	300 [12”]	300 [12”]	300 [12”]	300 [12”]	300 [12”]	300 [12”]
	(h2)	400 [16”]	400 [16”]	400 [16”]	400 [16”]	400 [16”]	400 [16”]
	Exterior Surf. Area m²/ ft² (As1+As2)	0.84 [9.3”]	0.84 [9.3”]	0.84 [9.3”]	0.84 [9.3”]	0.84 [9.3”]	0.84 [9.3”]
	Weight: kg/ lbs	11.6 25.5	12.5 27.5	19.0 41.8	19.9 43.8	20.8 45.8	21.7 47.7
	EPS thickness	50 [2”]	50 [2”]	50 [2”]	50 [2”]	50 [2”]	50 [2”]

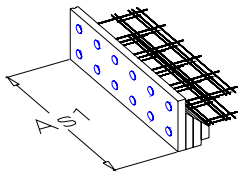
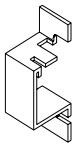
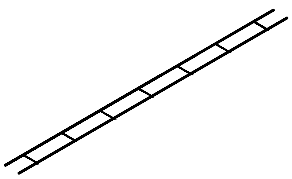


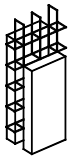
GENERAL SPECIFICATIONS Continued

SKETCH	DIMENSION	CONCRETE CORE THICKNESS					
		100 [4”]	150 [6”]	200 [8”]	250 [10”]	300 [12”]	350 [14”]
Foundation Panel (Vertical spacers & Reinforcement; can be used in the buildings without basement)							
	Length			1200 [48”]	1200 [48”]	1200 [48”]	1200 [48”]
	Footing Thickness			460 [18”]	510 [20”]	560 [22”]	610 [24”]
	Height (h1)			300 [12”]	300 [12”]	300 [12”]	300 [12”]
	(h2)			1200 [48”]	1200 [48”]	1200 [48”]	1200 [48”]
	Exterior Surf. Area m²/ ft² (As1+As2)			1.88 [20”	1.8 [20”	1.8 [20”]	1.8 [20”]
	Weight: kg/ lbs			38 84	39.5 87	41.8 92	43.6 96
	EPS thickness			50 [2”]	50 [2”]	50 [2”]	50 [2”]

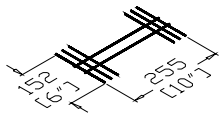
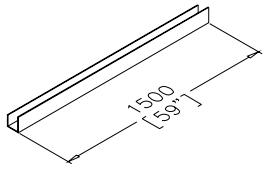
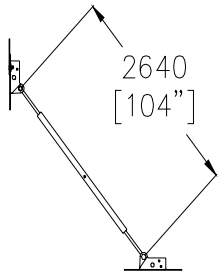


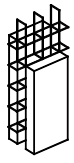
GENERAL SPECIFICATIONS Continued

SKETCH	DIMENSION	CONCRETE CORE THICKNESS					
		100 [4"]	150 [6"]	200 [8"]	250 [10"]	300 [12"]	350 [14"]
Assembly elements and accessories							
Brick-ledge Panel							
	Length	1200 [48"]	1200 [48"]	1200 [48"]	1200 [48"]	1200 [48"]	1200 [48"]
	Width	200 [8"]	200 [8"]	200 [8"]	200 [8"]	200 [8"]	200 [8"]
	Height	450 [16"]	450 [16"]	450 [16"]	450 [16"]	450 [16"]	450 [16"]
	Exterior Surface Area m^2/ ft^2 (As1)	0.48 [5.3"]	0.48 [5.3"]	0.48 [5.3"]	0.48 [5.3"]	0.48 [5.3"]	0.48 [5.3"]
	EPS thickness	50 [2"]	50 [2"]	50 [2"]	50 [2"]	50 [2"]	50 [2"]
	Weight: kg/ lbs	7.3 16.1	7.45 16.4	7.6 16.7	7.75 17.1	7.9 17.4	8.1 17.8
	R, value [h·ft²·°F/BTU]	20.3	20.6	20.8	21.0	21.2	21.5
Brick-ledge element							
	Weight: kg/ lbs	0.85 1.87	0.85 1.87	0.85 1.87	0.85 1.87	0.85 1.87	0.85 1.87
Horizontal Reinforcing Mesh							
	Length	2800 [110]	2850 [112]	2800 [110]	2850 [112]	2850 [112]	3050 [120]
	Width	90 [3.5]	90 [3.5]	120 [4.7]	170 [6.7]	220 [8.7]	270 [10.7]
	Weight: kg/ lbs	1.35 [2.7]	1.35 [2.7]	2.32 [5.1]	3.3 [7.3]	4.7 [10]	6.7 [14]
	Deformed Wire or Rebar mm/in	1xD12 1x∅0.39	1x10M 1x∅0.44	2xD12 2x∅0.39	2x10M 2x∅0.444	2x10M 2x∅0.444	2x15M 2x∅0.626

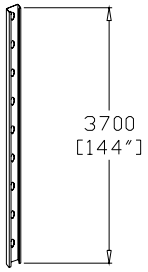
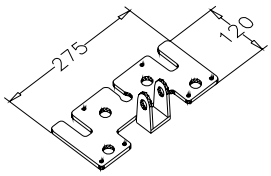
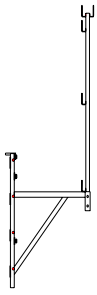


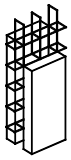
GENERAL SPECIFICATIONS Continued

SKETCH	DIMENSION	CONCRETE CORE THICKNESS					
		100 [4"]	150 [6"]	200 [8"]	250 [10"]	300 [12"]	350 [14"]
Connecting Mesh (provides the connection between panels)							
	Weight: kg/ lbs	0.09 0.20	0.09 0.20	0.09 0.20	0.09 0.20	0.09 0.20	0.09 0.20
U-guide (provides the accurate alignment of the panels)							
	Weight: kg/ lbs	1.05 [2.30]	1.05 [2.30]	1.05 [2.30]	1.05 [2.30]	1.05 [2.30]	1.05 [2.30]
Turn-buckle Brace							
	Weight: kg/ lbs	8.92 19.6	8.92 19.6	8.92 19.6	8.92 19.6	8.92 19.6	8.92 19.6

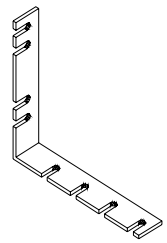
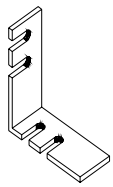
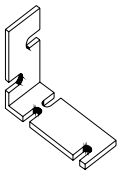


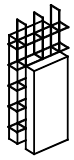
GENERAL SPECIFICATIONS Continued

SKETCH	DIMENSION	CONCRETE CORE THICKNESS					
		100 [4"]	150 [6"]	200 [8"]	250 [10"]	300 [12"]	350 [14"]
Post (provides the vertical alignment of the panels)							
	Weight: kg/ lbs	10.5 23.1	10.5 23.1	10.5 23.1	10.5 23.1	10.5 23.1	10.5 23.1
Pad Flange							
	Weight: kg/ lbs	1.3 2.9	1.3 2.9	1.3 2.9	1.3 2.9	1.3 2.9	1.3 2.9
Scaffolding							
	Weight: kg/ lbs	7.38 16.24	7.38 16.24	7.38 16.24	7.38 16.24	7.38 16.24	7.38 16.24

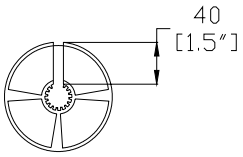
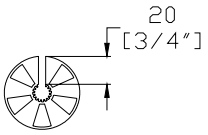
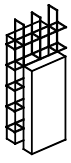


GENERAL SPECIFICATIONS Continued

SKETCH	DIMENSION	CONCRETE CORE THICKNESS					
		100 [4”]	150 [6”]	200 [8”]	250 [10”]	300 [12”]	350 [14”]
External Connecting element-1 for 90°Corner							
	Weight: kg/ lbs	0.51 1.12	0.51 1.12	0.51 1.12	0.51 1.12	0.51 1.12	0.51 1.12
Internal Connecting element-2 for 90°Corner							
	Weight: kg/ lbs	0.21 0.46	0.21 0.46	0.21 0.46			
Internal Connecting element-3 for 90°Corner							
	Weight: kg/ lbs				0.27 0.60	0.27 0.60	0.27 0.60



GENERAL SPECIFICATIONS Continued

SKETCH	DIMENSION	CONCRETE CORE THICKNESS					
		100 [4"]	150 [6"]	200 [8"]	250 [10"]	300 [12"]	350 [14"]
Plastic Spacer -1							
	Weight: kg/ lbs	0.011 0.024	0.011 0.024	0.011 0.024	0.011 0.024	0.011 0.024	0.011 0.024
Plastic Spacer -2							
	Weight: kg/ lbs	0.009 0.020	0.009 0.020	0.009 0.020	0.009 0.020	0.009 0.020	0.009 0.020