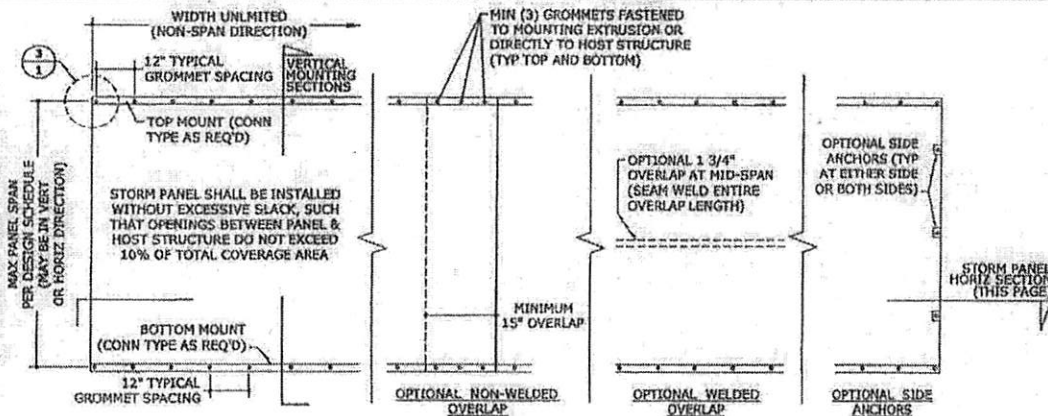
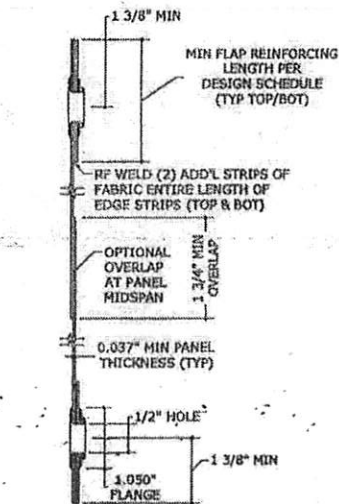


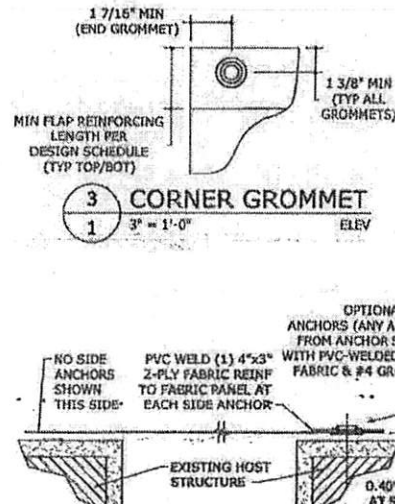
FABRIC-SHIELD™ STORM PANEL



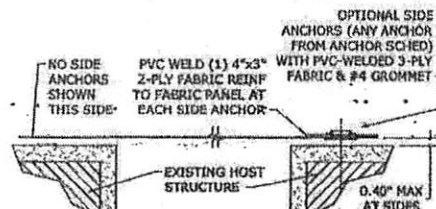
1 TYPICAL VERTICAL MOUNT
1 N.T.S. ELEV



2 PANEL PROFILE
1 5\"/>



3 CORNER GROMMET
1 3\"/>



4 HORIZONTAL SECTION
1 N.T.S. HORIZ SECTION

DESIGN SCHEDULE:

MAX ALLOWABLE SPAN	MIN FLAP REINFORCING LENGTH	ALLOWABLE PRESSURES				DESIGN LOADS	
		DIRECT MOUNT	TRACK MOUNT	TENSION	WEAR	TENSION	WEAR
100'	2-1/2"	+62 PSF	-66 PSF	+62 PSF	-60 PSF	308 LB/FT	627 LB/FT
76-1/4'	6-3/8"	+96 PSF	-96 PSF	-	-	308 LB/FT	479 LB/FT
61'	6-3/8"	+119 PSF	-119 PSF	-	-	302 LB/FT	407 LB/FT
39'	6-3/8"	+128 PSF	-128 PSF	-	-	299 LB/FT	418 LB/FT

NOTE: 9.25" MINIMUM ALLOWABLE WIDTH (NON-SPAN DIMENSION)
9.25" MINIMUM ALLOWABLE SPAN

SPAN NOTES:

1. ALLOWABLE PRESSURES SHALL NOT BE EXCEEDED.
2. PANEL SPANS LONGER THAN MAXIMUM NOTED ABOVE ARE NOT ACCEPTABLE.
3. PANEL SPANS LESS THAN MINIMUM NOTED ABOVE ARE NOT ACCEPTABLE.
4. VALID FOR PANELS MOUNTED VERTICALLY OR HORIZONTALLY.

GLASS SEPARATION SCHEDULE: *AS APPLICABLE

SPANS UP TO	MINIMUM GLASS SEPARATION	
	INSTALLATIONS $\leq 30'$ ABOVE GRADE	INSTALLATIONS $> 30'$ ABOVE GRADE
100'	21.0"	8.5"
76-1/4'	11.1"	8.1"
61'	11.1"	2.1"
39'	8.1"	1.2"

GLASS SEPARATION SCHEDULE NOTES:

- *1. SEPARATION FROM GLASS IS ONLY REQUIRED IN ESSENTIAL FACILITIES AND/OR WHEN THE AUTHORITY HAVING JURISDICTION SPECIFIES THE OPTIONAL PASS/FAIL CRITERIA AS SET FORTH IN ASTM E1996-09.
2. GLASS SEPARATION SCHEDULE PROVIDES MINIMUM SEPARATION DISTANCE REQUIRED BETWEEN EXTERIOR FACE OF GLAZING (OR OTHER PRODUCT BEING PROTECTED) AND INTERIOR FACE OF INSTALLED STORM PANEL.

GENERAL NOTES:

1. THIS STORM PANEL SYSTEM HAS BEEN TESTED AND EVALUATED AS A LARGE MISSILE IMPACT PROTECTIVE SYSTEM IN ACCORDANCE WITH THE 2010 FLORIDA BUILDING CODE, FOR USE OUTSIDE FLORIDA'S HIGH VELOCITY HURRICANE ZONE (HVHZ) ONLY.
2. TESTING WAS CONDUCTED IN ACCORDANCE WITH ASTM E330-07, E1886-02, E1996-02 & E1996-09 PROTOCOLS.
3. NO 33-1/3% INCREASE IN ALLOWABLE STRESS HAS BEEN USED IN THE DESIGN OF THIS PRODUCT. WIND LOAD DURATION FACTOR $C_d=1.6$ HAS BEEN USED FOR WOOD ANCHOR DESIGN.
4. POSITIVE AND NEGATIVE DESIGN PRESSURES CALCULATED FOR USE WITH THIS SYSTEM SHALL BE DETERMINED BY OTHERS ON A JOB-SPECIFIC BASIS IN ACCORDANCE WITH THE GOVERNING CODE. SITE-SPECIFIC PRESSURE REQUIREMENTS AS DETERMINED IN ACCORDANCE WITH ASCE 7-10 AND CHAPTER 1609 OF THE 2010 FLORIDA BUILDING CODE SHALL BE LESS THAN OR EQUAL TO THE POSITIVE OR NEGATIVE DESIGN PRESSURE CAPACITY VALUES LISTED HEREIN FOR ANY ASSEMBLY AS SHOWN.
5. DESIGN PRESSURES NOTED HEREIN ARE BASED ON MAXIMUM TESTED PRESSURES DIVIDED BY A 1.5 SAFETY FACTOR.
6. THE SHUTTER SYSTEM DETAILED HEREIN IS GENERIC AND DOES NOT PROVIDE INFORMATION FOR A SPECIFIC SITE. IF SITE CONDITIONS DEVIATE FROM THE CONDITIONS DETAILED HEREIN, A LICENSED ENGINEER OR REGISTERED ARCHITECT SHALL PREPARE SITE SPECIFIC DOCUMENTS TO BE USED IN CONJUNCTION WITH THIS DOCUMENT.
7. THE ARCHITECT/ENGINEER OF RECORD FOR THE PROJECT SUPERSTRUCTURE WITH WHICH THIS DESIGN IS USED SHALL BE RESPONSIBLE FOR THE INTEGRITY OF ALL SUPPORTING SURFACES TO THIS DESIGN WHICH SHALL BE COORDINATED BY THE PERMITTING CONTRACTOR.
8. STORM PANELS SHALL BE PVC COATED WOVEN POLYESTER FABRIC (THICKNESS $t=0.037"$) WITH A MIN. $F_u=18,053$ KSI.
9. ALL EXTRUSIONS SHOWN SHALL BE 6063-T5 MIN. ALUMINUM ALLOY, U.O.N.
10. PANELS SHALL BE PERMANENTLY LABELED WITH A MINIMUM OF ONE LABEL PER PANEL CONTAINING:
WAYNE-DALTON, A DIVISION OF OVERHEAD DOOR CORP.
PENSACOLA, FL
ASTM E330, E1886 & E1996
FLORIDA STATEWIDE APPROVAL
11. PANELS MAY BE MOUNTED HORIZONTALLY WHERE APPLICABLE (I.E. WITH LINE OF ANCHORAGE IN VERTICAL DIRECTION).
12. PANELS MAY BE INSTALLED WITH OPTIONAL SIDE ANCHORS AS DEPICTED HEREIN. HOWEVER, SYSTEM PERFORMANCE IS BASED ON TESTING WITHOUT SIDE ANCHORS. TESTS SHOW A FAILURE LOAD OF 887 LBS FOR THE #4 GROMMET AND 4"x3" 3-PLY PVC-WELDED FABRIC CONSTRUCTION AT EACH SIDE ANCHOR (ANCHOR NOT CONSIDERED).
13. ALL BOLTS & WASHERS SHALL BE ZINC COATED, GALVANIZED OR STAINLESS STEEL WITH A MINIMUM TENSILE STRENGTH OF 60 KSI. INSTALLATION ANCHORS SHALL BE CADMIUM-PLATED OR OTHERWISE CORROSION-RESISTANT MATERIAL AND SHALL COMPLY WITH "SPECIFICATIONS FOR ALUMINUM STRUCTURES" SECTION 5.2.1 BY THE ALUMINUM ASSOCIATION, INC., & ANY APPLICABLE FEDERAL, STATE, AND/OR LOCAL CODES.
14. ALL DISSIMILAR MATERIALS SHALL BE PAINTED OR PLATED AS PRESCRIBED IN THE ABOVE-NOTED BUILDING CODE.
15. ALL ACCEPTANCE CRITERIA HAVE BEEN MET FOR THIS SHUTTER AS A NON-POROUS SYSTEM, AS DEFINED IN ASTM E1996-02 & E1996-09.

WAYNE-DALTON
A DIVISION OF OVERHEAD DOOR CORP.
3395 ADDISON DRIVE
PENSACOLA, FL 32514
PH: (904) 394-0880 FAX: (904) 394-0881
WWW.WAYNE-DALTON.COM

FABRIC-SHIELD STORM PANEL
FLORIDA STATEWIDE APPROVAL
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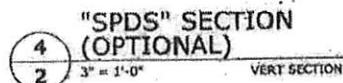
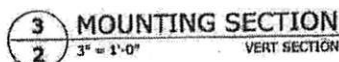
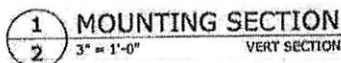
09-WDF-0001

SCALE 1/4" = 1'-0"

DATE DESCRIBED: 10/1/09

DATE REVISION: 10/1/09

1



WOOD (G = 2.5)	MOST STRUCT.	ANCHOR	LOAD (KIP)	3/4" MIN EDGE DISTANCE (UNLESS OTHERWISE NOTED)												
				CONN TYPE	Spans Up To 4'-0"			CONN TYPE	Spans Up To 6'-0"			CONN TYPE	Spans Up To 9'-0"			
					C1	C2	C3		C1	C2	C3		C1	C2	C3	
		1/4" LAG SCREW WITH MIN 2-3/32" THREAD PENETRIN.		38	10"	10"	3"	7"	7"	4"	4"	4"	4"	4"	4"	
				47	8"	8"	3"	5"	5"	4"	4"	4"	4"	4"	4"	
		↑ THREAD PENETRIN ↓		66	6"	6"		4"	4"			3"	3"	3"	3"	
				96	4"	4"		3"	3"			3"	3"			
				128	4"	4"		3"	3"							
		1/4" TAPCON (ELCO OR ITW) OR #14 WOOD SCREW WITH 1-1/2" MIN EMBED		38	9"	9"	4"	6"	6"	3"	4"	4"	4"	4"	4"	
				47	7"	7"	3"	5"	5"			3"	3"			
				66	5"	5"		4"	4"							
				96	4"	4"		3"	3"							
				128	3"	3"		3"	3"							
		1/4" ITW TAPCON SG WITH 1-1/2" MIN EMBED		38	12"	12"	12"	11"	11"	12"	7"	7"	10"	10"	10"	
				47	12"	12"	12"	9"	9"	12"	8"	8"	6"	6"	6"	
				66	9"	9"	12"	6"	6"	8"	4"	4"				
		* EMBEDMENT		96	8"	8"	9"	5"	5"	8"	4"	4"	4"	4"	4"	
				128	6"	6"	7"	5"	5"	4"						
		3/16" ITW SAMMY SUPER SCREW WITH 1-1/2" MIN EMBED		38	12"	12"	12"	12"	12"	8"	8"	8"	8"	8"	8"	
				47	12"	12"	12"	10"	10"	7"	7"	7"	7"	7"	7"	
				66	11"	11"	11"	7"	7"	7"	5"	5"	5"	5"	5"	
		* EMBEDMENT		96	10"	10"	6"	6"	6"	4"	4"	4"	4"	4"	4"	
				128	7"	7"	6"	6"	6"	4"						
		1/4" ELCO PANELMATE (MALE OR FEMALE) WITH 1-7/8" MIN EMBED		38	12"	12"	12"	12"	12"	10"	10"	10"	10"	10"	10"	
				47	12"	12"	12"	12"	12"	8"	8"	8"	8"	8"	8"	
				66	12"	12"	11"	8"	8"	6"	6"	6"	6"	6"	6"	
		* EMBEDMENT		96	11"	11"	9"	7"	7"	5"	5"	5"	5"	5"	5"	
				128	8"	8"	7"	7"	7"	5"						
		1/4" HANGER BOLT (MALE) W/ 2 1/2" MIN EMBED & 1 1/4" E.D.		38	10"	10"	3"	7"	7"			4"	4"	4"	4"	
				47	8"	8"	3"	5"	5"			4"	4"	4"	4"	
				66	6"	6"		4"	4"			3"	3"	3"	3"	
		* EMBEDMENT		96	4"	4"		3"	3"			3"	3"			
				128	4"	4"		3"	3"							
		5/16" HANGER BOLT (MALE) W/ 2 1/2" MIN EMBED & 1 1/														

1) 1/4" TARPONS SHALL BE BY ITW. ULTRACLOS SHALL BE BY ELO, AS LISTED IN APPROPRIATE ANCHOR SCHEDULE. "ELO" PALMATE® ANCHORS MAY BE MALE OR FEMALE ONLY, AS ILLUSTRATED.

2) ENSURE MINIMUM EDGE DISTANCE FOR ALL ANCHORS PER RESPECTIVE ANCHOR SCHEDULE. EDGE DISTANCE OF 3/4" IS ACCEPTABLE FOR ANCHORS TO WOOD, EXCEPT FOR 5/16" & 3/8" ANCHORS. ALWAYS REFERENCE ANCHOR SCHEDULE FOR MINIMUM EDGE DISTANCE REQUIREMENTS FOR THESE ANCHORS.

3) MINIMUM EMBEDMENT SHALL BE AS NOTED IN ANCHOR SCHEDULE. MINIMUM EMBEDMENT AND EDGE DISTANCE EXCLUDES STUCCO, FOAM, BRICK, AND OTHER WALL FINISHES.

4) ANCHORS SHALL BE OCCASIONALLY OCCURRED IN CONCRETE. SEE RECOMMENDATIONS.

5) ALL CONCRETE ANCHORS SPECIFIED HEREIN SHALL BE INSTALLED TO NON-CRACKED CONCRETE ONLY, AS DEFINED IN ACI 308.2.

6) WHERE EXISTING STRUCTURE IS WOOD FRAMING, EXISTING CONDITIONS MAY VARY. FIELD VERIFY IF ANCHORS ARE INTO ADEQUATE WOOD FRAMING MEMBERS, NOT INTO PLYWOOD.

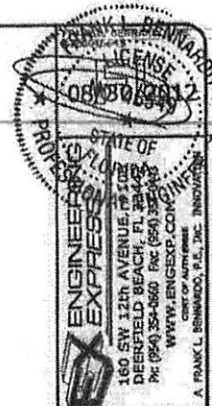
7) ANCHORS FASTENED TO NARROW FACE OF STUD FRAMING SHALL BE LOCATED IN CENTER OF NOMINAL 2x4 (MIN) WOOD STUD (I.E. 3/4" EDGE DISTANCE IS ACCEPTABLE FOR ANCHORS TO WOOD STUD). WOOD STRUCTURE SHALL BE "SOUTHERN PINE" 6-0,55, "SOUTHERN PINE" 6-0,42, OR GREATER DENSITY.

8) ANCHOR SCHEDULE APPLIES FOR ALL PRODUCTS CERTIFIED HEREIN, BUT ONLY PROVIDES MAXIMUM ALLOWABLE ANCHOR SPACING. MAXIMUM ALLOWABLE SPANS AND PRESSURES INDICATED IN SPAN RATING SHALL BE USED.

9) MACHINE SCREWS SHALL HAVE MINIMUM OF 1/2" ENGAGEMENT OF THREADS IN BASE ANCHOR AND MAY HAVE A PAN HEAD, TRUSS HEAD, OR WAFFER HEAD ("SIDEWALK BOLT") U.N.O.

10) [Z] DESIGNATES ANCHOR CONDITIONS WHICH ARE NOT ACCEPTABLE FOR USE.

11) [X] DESIGNATES ANCHORS WHICH ARE REMOVABLE AND MAY BE USED FOR DIRECT MOUNT INSTALLATIONS.



WAYNE-DALTON
A DIVISION OF OVERHEAD DOOR
3395 ADDISON DRIVE
PENSACOLA, FL 32514

Wayne Dalton

[illegible]

09-WDF-0001

SCALE: 04
PART DESCRIPTION:
WASTE MOUNT PART 031747

1997, 1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 2096, 2097, 2098, 2099, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2110, 2111, 2112, 2113, 2114, 2115, 2116, 2117, 2118, 2119, 2120, 2121, 2122, 2123, 2124, 2125, 2126, 2127, 2128, 2129, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2141, 2142, 2143, 2144, 2145, 2146, 2147, 2148, 2149, 2150, 2151, 2152, 2153, 2154, 2155, 2156, 2157, 2158, 2159, 2160, 2161, 2162, 2163, 2164, 2165, 2166, 2167, 2168, 2169, 2170, 2171, 2172, 2173, 2174, 2175, 2176, 2177, 2178, 2179, 2180, 2181, 2182, 2183, 2184, 2185, 2186, 2187, 2188, 2189, 2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2219, 2220, 2221, 2222, 2223, 2224, 2225, 2226, 2227, 2228, 2229, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2239, 2240, 2241, 2242, 2243, 2244, 2245, 2246, 2247, 2248, 2249, 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 2259, 2260, 2261, 2262, 2263, 2264, 2265, 2266, 2267, 2268, 2269, 2270, 2271, 2272, 2273, 2274, 2275, 2276, 2277, 2278, 2279, 2280, 2281, 2282, 2283, 2284, 2285, 2286, 2287, 2288, 2289, 2290, 2291, 2292, 2293, 2294, 2295, 2296, 2297, 2298, 2299, 2300, 2301, 2302, 2303, 2304, 2305, 2306, 2307, 2308, 2309, 2310, 2311, 2312, 2313, 2314, 2315, 2316, 2317, 2318, 2319, 2320, 2321, 2322, 2323, 2324, 2325, 2326, 2327, 2328, 2329, 2330, 2331, 2332, 2333, 2334, 2335, 2336, 2337, 2338, 2339, 2340, 2341, 2342, 2343, 2344, 2345, 2346, 2347, 2348, 2349, 2350, 2351, 2352, 2353, 2354, 2355, 2356, 2357, 2358, 2359, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2369, 2370, 2371, 2372, 2373, 2374, 2375, 2376, 2377, 2378, 2379, 2380, 2381, 2382, 2383, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402, 2403, 2404, 2405, 2406, 2407, 2408, 2409, 2410, 2411, 2412, 2413, 2414, 2415, 2416, 2417, 2418, 2419, 2420, 2421, 2422, 2423, 2424, 2425, 2426, 2427, 2428, 2429, 2430, 2431, 2432, 2433, 2434, 2435, 2436, 2437, 2438, 2439, 2440, 2441, 2442, 2443, 2444, 2445, 2446, 2447, 2448, 2449, 2450, 2451, 2452, 2453, 2454, 2455, 2456, 2457, 2458, 2459, 2460, 2461, 2462, 2463, 2464, 2465, 2466, 2467, 2468, 2469, 2470, 2471, 2472, 2473, 2474, 2475, 2476, 2477, 2478, 2479, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500, 2501, 2502, 2503, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2514, 2515, 2516, 2517, 2518, 2519, 2520, 2521, 2522, 2523, 2524, 2525, 2526, 2527, 2528, 2529, 2530, 2531, 2532, 2533, 2534, 2535, 2536, 2537, 2538, 2539, 2540, 2541, 2542, 2543, 2544, 2545, 2546, 2547, 2548, 2549, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2557, 2558, 2559, 2560, 2561, 2562, 2563, 2564, 2565, 2566, 2567, 2568, 2569, 2570, 2571, 2572, 2573, 2574, 2575, 2576, 2577, 2578, 2579, 2580, 2581, 2582, 2583, 2584, 2585, 2586, 2587, 2588, 2589, 2590, 2591, 2592, 2593, 2594, 2595, 2596, 2597, 2598, 2599, 2600, 2601, 2602, 2603, 2604, 2605, 2606, 2607, 2608, 2609, 2610, 2611, 2612, 2613, 2614, 2615, 2616, 2617, 2618, 2619, 2620, 2621, 2622, 2623, 2624, 2625, 2626, 2627, 2628, 2629, 2630, 2631, 2632, 2633, 2634, 2635, 2636, 2637, 2638, 2639, 2640, 2641, 2642, 2643, 2644, 2645, 2646, 2647, 2648, 2649, 2650, 2651, 2652, 2653, 2654, 2655, 2656, 2657, 2658, 2659, 2660, 2661, 2662, 2663, 2664, 2665, 2666, 2667, 2668, 2669, 2670, 2671, 2672, 2673, 2674, 2675, 2676, 2677, 2678, 26

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ANCHOR SCHEDULE 4

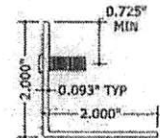
POST STRUCT.	ANCHOR	LOAD (psf)	2" MIN EDGE DISTANCE									2-1/2" MIN EDGE DISTANCE								
			Spans Up To 4'-0"			Spans Up To 6'-0"			Spans Up To 9'-0"			Spans Up To 4'-0"			Spans Up To 6'-0"			Spans Up To 9'-0"		
			CONN TYPE			CONN TYPE			CONN TYPE			CONN TYPE			CONN TYPE			CONN TYPE		
			C1	C2	C3	C1	C2	C3	C1	C2	C3	C1	C2	C3	C1	C2	C3	C1	C2	C3
HOLLOW BLOCK	1/4" ULTRACON (ELCO) WITH 1-1/4" EMBED	38	12"	12"		9"	9"		6"	6"		10"	10"		7"	7"		4"	4"	
		47	11"	11"		7"	7"					8"	8"		5"	5"		4"	4"	
		66	6"	6"								6"	6"		4"	4"		3"	3"	
		96	6"	6"								5"	5"		3"	3"		3"	3"	
HOLLOW BLOCK	1/4" TAPCON (ITW) WITH 1-1/4" EMBED	38	10"	10"		7"	7"		5"	5"		12"	12"		8"	8"		5"	5"	
		47	8"	8"		5"	5"		4"	4"		10"	10"		6"	6"		4"	4"	
		66	6"	6"		3"	3"		3"	3"		7"	7"		5"	5"		3"	3"	
		96	5"	5"		3"	3"		3"	3"		5"	5"		4"	4"		3"	3"	
HOLLOW BLOCK	1/4" ELCO PANELMATE (MALE OR FEMALE) WITH MIN 1-1/4" EMBEDMENT	38	12"	12"		9"	9"		5"	5"		12"	12"		8"	8"		5"	5"	
		47	11"	11"		7"	7"		4"	4"		11"	11"		6"	6"		4"	4"	
		66	8"	8"		4"	4"		3"	3"		8"	8"		5"	5"		4"	4"	
		96	6"	6"		3"	3"		3"	3"		6"	6"		4"	4"		4"	4"	
HOLLOW BLOCK	1/4" ITW TAPCON SG OR SAMMY SUPER SCREW W/ MIN 1 1/4" EMBEDMENT	38	12"	12"		9"	9"		5"	5"		12"	12"		8"	8"		5"	5"	
		47	10"	10"		7"	7"		5"	5"		12"	12"		8"	8"		5"	5"	
		66	7"	7"		5"	5"		3"	3"		9"	9"		6"	6"		4"	4"	
		96	6"	6"		4"	4"		3"	3"		5"	5"		4"	4"		4"	4"	
HOLLOW BLOCK	1/4-20 ALL POINTS SOLID-SET ANCHOR WITH MIN 7/8" EMBEDMENT	38	12"	12"		9"	9"		5"	5"		12"	12"		8"	8"		5"	5"	
		47	11"	11"		8"	8"		5"	5"		12"	12"		8"	8"		5"	5"	
		66	8"	8"		5"	5"		4"	4"		10"	10"		6"	6"		4"	4"	
		96	7"	7"		5"	5"		4"	4"		9"	9"		5"	5"		4"	4"	
HOLLOW BLOCK	5/16" ULTRACON (ELCO) WITH MIN 1 1/4" EMBED	38										12"	12"		8"	8"		5"	5"	
		47										12"	12"		8"	8"		5"	5"	
		66										12"	12"		8"	8"		5"	5"	
		96										12"	12"		8"	8"		5"	5"	
HOLLOW BLOCK	3/8" RED HEAD LDT W/ MIN 1 1/2" EMBEDMENT	38										12"	12"		8"	8"		5"	5"	
		47										12"	12"		8"	8"		5"	5"	
		66										12"	12"		8"	8"		5"	5"	
		96										12"	12"		8"	8"		5"	5"	
HOLLOW BLOCK		128										12"	12"		8"	8"		5"	5"	
		128										12"	12"		8"	8"		5"	5"	
		128										12"	12"		8"	8"		5"	5"	
		128										12"	12"		8"	8"		5"	5"	

ANCHOR SCHEDULE 5

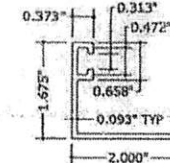
POST STRUCT.	ANCHOR	LOAD (psf)	1/2" MIN EDGE DISTANCE								
			Spans Up To 4'-0"			Spans Up To 6'-0"			Spans Up To 9'-0"		
			CONN TYPE			CONN TYPE			CONN TYPE		
			C1	C2	C3	C1	C2	C3	C1	C2	C3
18GA STEEL STRUCT.	#14 SMS TO MINIMUM 18GA (0.0478") STEEL STUDS (MIN F _y = 50 KSI)	38	12"	12"		12"	12"		12"	12"	
		47	12"	12"		10"	10"		10"	10"	
		66	10"	10"		7"	7"		7"	7"	
		96	8"	8"		5"	5"		5"	5"	
18GA STEEL STRUCT.		128	7"	7"		5"	5"		5"	5"	
		128	7"	7"		5"	5"		5"	5"	
		128	7"	7"		5"	5"		5"	5"	
		128	7"	7"		5"	5"		5"	5"	

ANCHOR SCHEDULE 6

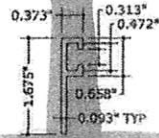
POST STRUCT.	ANCHOR	LOAD (psf)	1/2" MIN EDGE DISTANCE								
			Spans Up To 4'-0"			Spans Up To 6'-0"			Spans Up To 9'-0"		
			CONN TYPE			CONN TYPE			CONN TYPE		
			C1	C2	C3	C1	C2	C3	C1	C2	C3
ALUMINUM	#14 SMS TO 6063-T6 ALUMINUM (1/8" MIN)	38	12"	12"		12"	12"		12"	12"	
		47	12"	12"		12"	12"		12"	12"	
		66	12"	12"		9"	9"		9"	9"	
		96	10"	10"		7"	7"		7"	7"	
ALUMINUM		128	8"	8"		7"	7"		7"	7"	
		128	8"	8"		7"	7"		7"	7"	
		128	8"	8"		7"	7"		7"	7"	
		128	8"	8"		7"	7"		7"	7"	



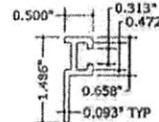
1 STUDDED ANGLE
6\"/>



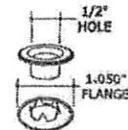
2 \"/>



3 \"/>



4 \"/>



5 #4 GROMMET
6\"/>

Bottom & Top Track

WAYNE-DALTON
A DIVISION OF OVERHEAD DOOR CORP.
3395 ADDISON DRIVE
PENSACOLA, FL 32514
FABRIC-SHIELD STORM PANEL
FLORIDA STATEWIDE APPROVAL
www.wayne-dalton.com

DATE OF
160 SW 12th AVENUE, #100
DEERFIELD BEACH, FL 33442
PH (904) 354-0660 FAX (904) 354-0660
WWW.ENGINEEXP.COM

09-WDF-0001
SCALE: 1/4\"/>

4



ASI BUILDING PRODUCTS
CORPORATE OFFICE, 4720 EAST ADAMO DRIVE
TAMPA, FL 33605

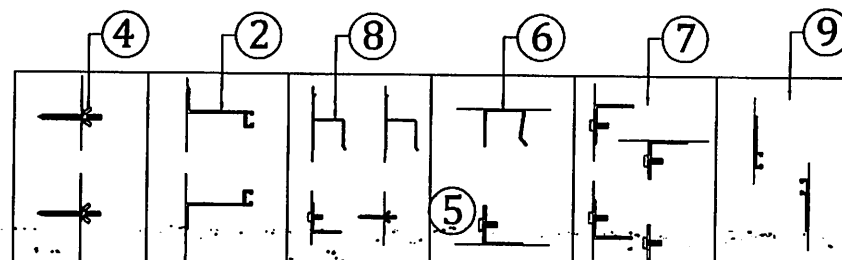
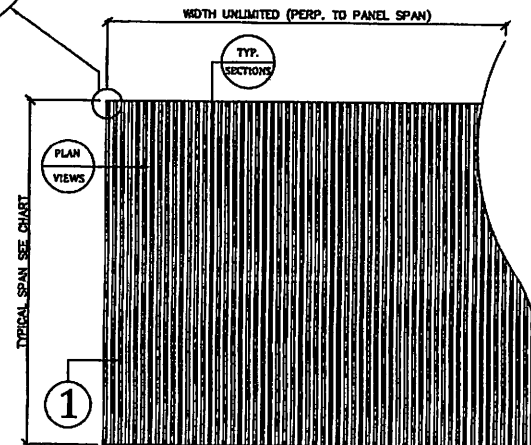
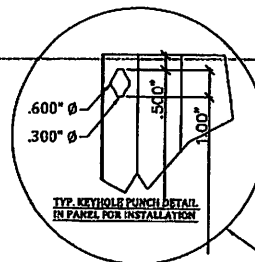
28 GAUGE GALV. STEEL STORM PANEL

- STEEL STORM PANELS SHALL BE ASTM A653 CS-B STEEL, 28 GAUGE THICKNESS
- THIS PRODUCT HAS BEEN EVALUATED AND IS IN COMPLIANCE WITH 6TH EDITION FLORIDA BUILDING CODE (FBC) STRUCTURAL REQUIREMENTS EXCLUDING THE 'HIGH VELOCITY HURRICANE ZONE' (HVHZ). WHEN USED IN AREAS REQUIRING WIND BORNE DEBRIS PROTECTION THIS PRODUCT COMPLIES WITH SECTION 1609.1.2 OF THE FBC AND DOES NOT REQUIRE AN IMPACT RESISTANT COVERING. THIS PRODUCT MEETS MISSILE LEVEL 'D' AND EXCLUDES WIND ZONE 4 AS DEFINED IN ASTM E1996 AND SECTION 1609.1.2.2.
- PRODUCT MARKINGS SHALL BE ROLLED INTO EACH PANEL WITH SPACING IN BETWEEN MARKING NO GREATER THAN 36' AS FOLLOWS:

ASI BUILDING PRODUCTS
TAMPA, FL
FBC APPROVAL NO. FL-7989.1
ASTM E 330-02
ASTM E 1886/1996-02 MISSILE LEVEL D

- POSITIVE AND NEGATIVE DESIGN PRESSURES TO BE USED WITH THESE DRAWINGS SHALL BE DETERMINED BY OTHERS FOR SPECIFIC JOBS IN ACCORDANCE WITH THE GOVERNING CODE.
- THE SYSTEM DETAILED HEREIN IS GENERIC AND DOES NOT PROVIDE INFORMATION FOR A SPECIFIC SITE. IF SITE CONDITIONS DEViate FROM THE CONDITIONS DETAILED HEREIN, A LICENSED ENGINEER OR REGISTERED ARCHITECT SHALL PREPARE SITE SPECIFIC DOCUMENTS TO BE USED IN CONJUNCTION WITH THIS DOCUMENT. PERMIT HOLDER SHALL VERIFY THE ADEQUACY OF THE EXISTING STRUCTURE TO WITHSTAND NEW SUPERIMPOSED LOADS.
- ALL ALUMINUM EXTRUSIONS SHALL BE 6063-T6 ALUMINUM ALLOY, UNLESS OTHERWISE NOTED.
- TOP & BOTTOM DETAILS SHOWN MAY BE INTERCHANGED AS FIELD CONDITIONS DICTATE. PANELS MAY BE MOUNTED HORIZONTALLY WHERE APPLICABLE.
- ALL BOLTS & WASHERS SHALL BE ZINC COATED STEEL, GALVANIZED STEEL OR STAINLESS STEEL WITH A MINIMUM TENSILE YIELD STRENGTH OF 60 KSI.
- ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH ANCHOR MANUFACTURER'S RECOMMENDATIONS.
- EMBEDMENT LENGTHS AND EDGE DISTANCES SHALL BE AS RECOMMENDED BY THE ANCHOR MANUFACTURER BUT IN NO INSTANCE SHALL BE LESS THAN AS SHOWN ON THESE APPROVAL DRAWINGS. EMBEDMENT AND EDGE DISTANCES SHALL NOT INCLUDE STUCCO OR OTHER FINISHES.

TABLE OF CONTENTS	
SHEET #	DESCRIPTION
1	TYPICAL ELEVATION, GENERAL NOTES & DETAILS
2	BILL OF MATERIALS & COMPONENTS
3	TYPICAL CLOSURE DETAILS
4	TYPICAL CROSS SECTIONS
5	TYPICAL CROSS SECTIONS CONT.
6	ANCHORING SCHEDULE - CONCRETE & BLOCK
7	ANCHORING SCHEDULE - WOOD



PANEL SPAN	DIRECT MOUNT DESIGN PRESSURE (PSF)	'F' BUILD-OUT MOUNT DESIGN PRESSURE (PSF)	'H' MOUNT DESIGN PRESSURE (PSF)	'U' MOUNT DESIGN PRESSURE (PSF)	WALL/TRAP MOUNT DESIGN PRESSURE (PSF)	STANDARD P-TRACK DESIGN PRESSURE (PSF)
12' - 53'	+70.0 -70.0	+70.0 -70.0	+70.0 -70.0	+70.0 -70.0	+70.0 -70.0	+70.0 -70.0
53' - 70'	+53.0 -53.0	+53.0 -53.0	+53.0 -53.0	+53.0 -53.0	+53.0 -53.0	+53.0 -53.0
70' - 88'	+42.0 -42.0	+42.0 -42.0	+42.0 -42.0	+42.0 -42.0	+42.0 -42.0	+42.0 -42.0
88' - 106'	+35.0 -35.0	+35.0 -35.0	+35.0 -35.0	+35.0 -35.0	+35.0 -35.0	+35.0 -35.0

I HEREBY CERTIFY THAT I HAVE REVIEWED THIS PLAN AND FOUND IT TO BE IN COMPLIANCE WITH ASCE 7-16, & FBC 6TH EDITION



joel
Falardeau
2017.10.1
9 13:27:40
-04'00'

PROFESSIONAL ENGINEER SEAL

ENGINEER OF RECORD
Joel Falardeau P.E.
FLORIDA LICENSE NUMBER: 70667
EVOLUTION ENGINEERING, LLC.
37841 HART CIRCLE
ZENITH HILLS, FL 33542

DATE: 10-09-2017

DRAWN BY: D.H.

REVISION:	DATE:
RO 1	
RO 2	
RO 3	
RO 4	

PRODUCT:
ASI ANCHOR SAFE
PANEL SHUTTER SYSTEM
28 GAUGE GALV. STEEL PANEL

PART OR ASSEMBLY:
TYPICAL ELEVATIONS
GENERAL NOTES & DETAILS

SHEET 1 OF 7