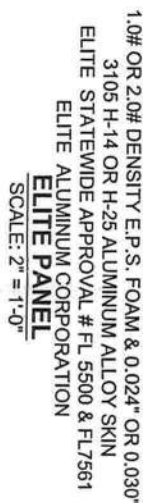


SET WITH DEGASEL 2000 OR EQUAL
CHAULK AND OR ADHESIVE
ON TOP AND BOTTOM LOCK GROOVE



6" x 48" x 0.024" Panels Aluminum Alloy 3105 H-14 or H-25 1.0 EPS Core Density Foam

Wind Zone	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
Wild Zone	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
Wind Zone	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
Wind Zone	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
Wind Zone	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
Wind Zone	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
Wind Zone	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
Wind Zone	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
Wind Zone	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
Wind Zone	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
Wind Zone	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
Wind Zone	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
Wind Zone	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
Wind Zone	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
Wind Zone	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
Wind Zone	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
Wind Zone	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
Wind Zone	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62																																						

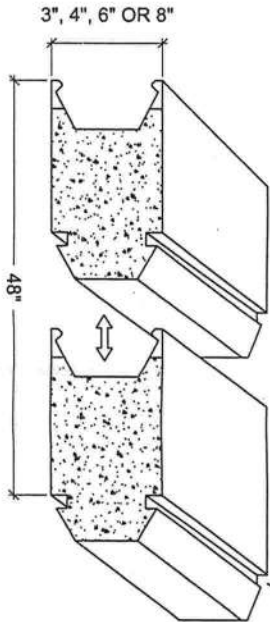
Note: Total floor panel width = room width + wall width + overhang.

6" x 48" x 0.024" Panels Aluminum Alloy 3105 H-14 or H-25 2.0 EPS Core Density Foam

Wind Zone	Wind Structures Mono-Sloped Roof				Screen Rooms & Attached Covers				Glass & Modular Rooms Enclosed				Overhangs/Coverlets			
	1	2	3	4	1	2	3	4	1	2	3	4				
Wind Zone 1	130	140	150	160	130	140	150	160	130	140	150	160	130	140	150	160
Wind Zone 2	130	140	150	160	130	140	150	160	130	140	150	160	130	140	150	160
Wind Zone 3	130	140	150	160	130	140	150	160	130	140	150	160	130	140	150	160
Wind Zone 4	130	140	150	160	130	140	150	160	130	140	150	160	130	140	150	160
Wind Zone 5	130	140	150	160	130	140	150	160	130	140	150	160	130	140	150	160
Wind Zone 6	130	140	150	160	130	140	150	160	130	140	150	160	130	140	150	160
Wind Zone 7	130	140	150	160	130	140	150	160	130	140	150	160	130	140	150	160
Wind Zone 8	130	140	150	160	130	140	150	160	130	140	150	160	130	140	150	160
Wind Zone 9	130	140	150	160	130	140	150	160	130	140	150	160	130	140	150	160
Wind Zone 10	130	140	150	160	130	140	150	160	130	140	150	160	130	140	150	160
Wind Zone 11	130	140	150	160	130	140	150	160	130	140	150	160	130	140	150	160
Wind Zone 12	130	140	150	160	130	140	150	160	130	140	150	160	130	140	150	160
Wind Zone 13	130	140	150	160	130	140	150	160	130	140	150	160	130	140	150	160
Wind Zone 14	130	140	150	160	130	140	150	160	130	140	150	160	130	140	150	160
Wind Zone 15	130	140	150	160	130	140	150	160	130	140	150	160	130	140	150	160
Wind Zone 16	130	140	150	160	130	140	150	160	130	140	150	160	130	140	150	160
Wind Zone 17	130	140	150	160	130	140	150	160	130	140	150	160	130	140	150	160
Wind Zone 18	130	140	150	160	130	140	150	160	130	140	150	160	130	140	150	160
Wind Zone 19	130	140	150	160	130	140	150	160	130	140	150	160	130	140	150	160
Wind Zone 20	130	140	150	160	130	140	150	160	130	140	150	160	130	140	150	160
Wind Zone 21	130	140	150	160	130	140	150	160	130	140	150	160	130	140	150	160
Wind Zone 22	130	140	150	160	130	140	150	160	130	140	150	160	130	140	150	160
Wind Zone 23	130	140	150	160	130	140	150	160	130	140	150	160	130	140	150	160
Wind Zone 24	130	140	150	160	130	140	150	160	130	140	150	160	130	140	150	160
Wind Zone 25	130	140	150	160	130	140	150	160	130	140	150	160	130	140	150	160

Design of applied road based on the attractive area of the panel

MANUFACTURERS PROPRIETARY PRODUCTS



1.0# OR 2.0# DENSITY E.P.S. FOAM & 0.024" OR 0.030"
3105 H-14 OR H-25 ALUMINUM ALLOY SKIN
ELITE STATEWIDE APPROVAL # FL 5500 & FL7561
ELITE ALUMINUM CORPORATION
ELITE PANEL
SCALE: 2" = 1'-0"

SET WITH DEGASEL 2000 OR EQUAL
CHALK AND OR ADHESIVE
ON TOP AND BOTTOM LOCK GROOVE

Note:
Below spans are based on test results from a
Florida approved test lab & analyzed by
Lawrence E. Bennett & L/180

Table 7.2.1 Elite Aluminum Corporation Roof Panels Allowable Spans and Design / Applied Loads* (#/SF)

3" x 48" x 0.024" Panels Aluminum Alloy 3105 H-14 or H-25 1.0 EPS Core Density Foam											
Wind	Zone	Open Structures Mono-Sloped Roof	Screen Rooms & Attached Covers	Glass & Modular Rooms Enclosed	Overhang	Wind	Zone	Open Structures Mono-Sloped Roof	Screen Rooms & Attached Covers	Glass & Modular Rooms Enclosed	Overhang
100	100	100	100	100	100	100	100	100	100	100	100
120	120	120	120	120	120	120	120	120	120	120	120
140	140	140	140	140	140	140	140	140	140	140	140
160	160	160	160	160	160	160	160	160	160	160	160
180	180	180	180	180	180	180	180	180	180	180	180
200	200	200	200	200	200	200	200	200	200	200	200
220	220	220	220	220	220	220	220	220	220	220	220
240	240	240	240	240	240	240	240	240	240	240	240
260	260	260	260	260	260	260	260	260	260	260	260
280	280	280	280	280	280	280	280	280	280	280	280
300	300	300	300	300	300	300	300	300	300	300	300
320	320	320	320	320	320	320	320	320	320	320	320
340	340	340	340	340	340	340	340	340	340	340	340
360	360	360	360	360	360	360	360	360	360	360	360
380	380	380	380	380	380	380	380	380	380	380	380
400	400	400	400	400	400	400	400	400	400	400	400
420	420	420	420	420	420	420	420	420	420	420	420
440	440	440	440	440	440	440	440	440	440	440	440
460	460	460	460	460	460	460	460	460	460	460	460
480	480	480	480	480	480	480	480	480	480	480	480
500	500	500	500	500	500	500	500	500	500	500	500
520	520	520	520	520	520	520	520	520	520	520	520
540	540	540	540	540	540	540	540	540	540	540	540
560	560	560	560	560	560	560	560	560	560	560	560
580	580	580	580	580	580	580	580	580	580	580	580
600	600	600	600	600	600	600	600	600	600	600	600
620	620	620	620	620	620	620	620	620	620	620	620
640	640	640	640	640	640	640	640	640	640	640	640
660	660	660	660	660	660	660	660	660	660	660	660
680	680	680	680	680	680	680	680	680	680	680	680
700	700	700	700	700	700	700	700	700	700	700	700
720	720	720	720	720	720	720	720	720	720	720	720
740	740	740	740	740	740	740	740	740	740	740	740
760	760	760	760	760	760	760	760	760	760	760	760
780	780	780	780	780	780	780	780	780	780	780	780
800	800	800	800	800	800	800	800	800	800	800	800
820	820	820	820	820	820	820	820	820	820	820	820
840	840	840	840	840	840	840	840	840	840	840	840
860	860	860	860	860	860	860	860	860	860	860	860
880	880	880	880	880	880	880	880	880	880	880	880
900	900	900	900	900	900	900	900	900	900	900	900
920	920	920	920	920	920	920	920	920	920	920	920
940	940	940	940	940	940	940	940	940	940	940	940
960	960	960	960	960	960	960	960	960	960	960	960
980	980	980	980	980	980	980	980	980	980	980	980
1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000

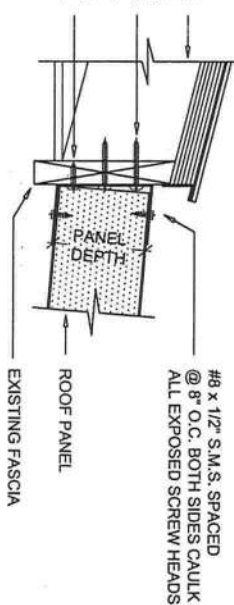
Note: Total roof panel width = room width + wall width + overhang. *Design or applied load based on the effective area of the panel.

Table 7.2.2 Elite Aluminum Corporation Roof Panels Allowable Spans and Design / Applied Loads* (#/SF)

3" x 48" x 0.024" Panels Aluminum Alloy 3105 H-14 or H-25 2.0 EPS Core Density Foam											
Wind	Zone	Open Structures Mono-Sloped Roof	Screen Rooms & Attached Covers	Glass & Modular Rooms Enclosed	Overhang	Wind	Zone	Open Structures Mono-Sloped Roof	Screen Rooms & Attached Covers	Glass & Modular Rooms Enclosed	Overhang
100	100	100	100	100	100	100	100	100	100	100	100
120	120	120	120	120	120	120	120	120	120	120	120
140	140	140	140	140	140	140	140	140	140	140	140
160	160	160	160	160	160	160	160	160	160	160	160
180	180	180	180	180	180	180	180	180	180	180	180
200	200	200	200	200	200	200	200	200	200	200	200
220	220	220	220	220	220	220	220	220	220	220	220
240	240	240	240	240	240	240	240	240	240	240	240
260	260	260	260	260	260	260	260	260	260	260	260
280	280	280	280	280	280	280	280	280	280	280	280
300	300	300	300	300	300	300	300	300	300	300	300
320	320	320	320	320	320	320	320	320	320	320	320
340	340	340	340	340	340	340	340	340	340	340	340
360	360	360	360	360	360	360	360	360	360	360	360
380	380	380	380	380	380	380	380	380	380	380	380
400	400	400	400	400	400	400	400	400	400	400	400
420	420	420	420	420	420	420	420	420	420	420	420
440	440	440	440	440	440	440	440	440	440	440	440
460	460	460	460	460	460	460	460	460	460	460	460
480	480	480	480	480	480	480	480	480	480	480	480
500	500	500	500	500	500	500	500	500	500	500	500
520	520	520	520	520	520	520	520	520	520	520	520
540	540	540	540	540	540	540	540	540	540	540	540
560	560	560	560	560	560	560	560	560	560	560	560
580	580	580	580	580	580	580	580	580	580	580	580
600	600	600	600	600	600	600	600	600	600	600	600
620	620	620	620	620	620	620	620	620	620	620	620
640	640	640	640	640	640	640	640	640	640	640	640
660	660	660	660	660	660	660	660	660	660	660	660
680	680	680	680	680	680	680	680	680	680	680	680
700	700	700	700	700	700	700	700	700	700	700	700
720	720	720	720	720	720	720	720	720	720	720	720
740	740	740	740	740	740	740	740	740	740	740	740
760	760	760	760	760	760	760	760	760	760	760	760
780	780	780	780	780	780	780	780	780	780	780	780
800	800	800	800	800	800	800	800	800	800	800	800
820	820	820	820	820	820	820	820	820	820	820	820
840	840	840	840	840	840	840	840	840	840	840	840
860	860	860	860	860	860	860	860	860	860	860	860
880	880	880	880	880	880	880	880	880	880	880	880
900	900	900	900	900	900	900	900	900	900	900	900
920	920	920	920	920	920	920	920	920	920	920	920
940	940	940	940	940	940	940	940	940	940	940	940
960	960	960	960	960	960	960	960	960	960	960	960
980	980	980	980	980	980	980	980	980	980	980	980
1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000

Note: Total roof panel width = room width + wall width + overhang. *Design or applied load based on the effective area of the panel.

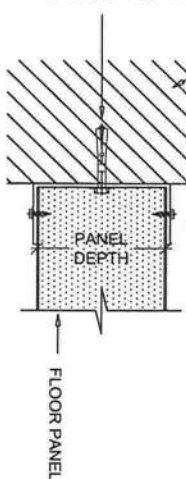
EXISTING TRUSS OR RAFTER
#10 x 1-1/2" S.M.S. OR WOOD
WOOD SCREW (2) PER
RAFTER OR TRUSS TAIL
#10 x 3/4" S.M.S. OR WOOD
SCREW SPACED @ 12" O.C.



ROOF PANEL TO FASCIA DETAIL

SCALE: 2" = 1'-0"

EXISTING HOST STRUCTURE
WOOD FRAME, MASONRY OR
OTHER CONSTRUCTION
FOR MASONRY USE:
(2) 1/4" x 1-1/4" MASONRY
ANCHOR OR EQUAL @ 12" O.C.
FOR WOOD USE:
#14 x 1-1/2" S.M.S. OR WOOD
SCREWS @ 12" O.C.



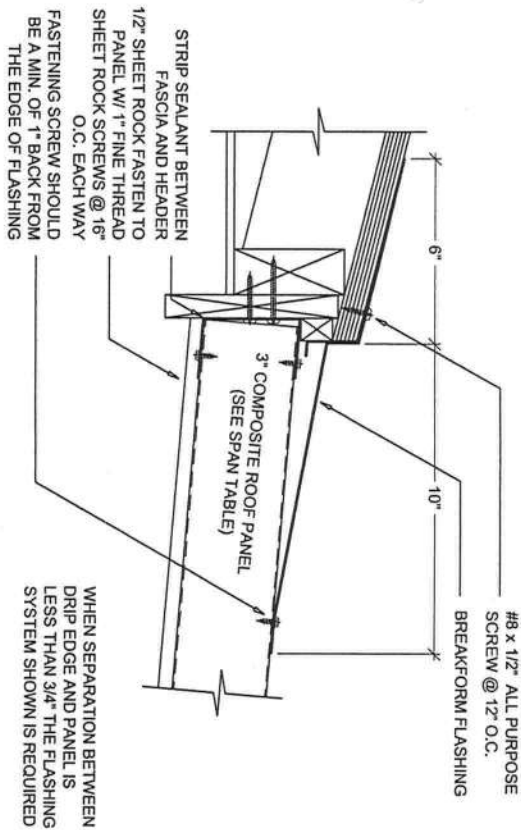
ROOF OR FLOOR PANEL TO WALL DETAIL

SCALE: 2" = 1'-0"

WOOD STRUCTURES SHOULD CONNECT TO TRUSS BUTTS OR THE SUB-FASCIA FRAMING WHERE
POSSIBLE ONLY. 15% OF SCREWS CAN BE OUTSIDE THE TRUSS BUTTS. SUB-FASCIA AND THOSE AREAS
SHALL HAVE DOUBLE ANCHORS. ALL SCREWS INTO THE HOST STRUCTURE SHALL HAVE MINIMUM 1-1/4"
WASHERS OR SHALL BE WASHER HEADED SCREWS.

HEADER INSIDE DIMENSION SHALL BE EQUAL TO PANEL OR PANELS DEPTH "T". THE WALL THICKNESS
SHALL BE THE THICKNESS OF THE ALUMINUM PAN OR COMPOSITE PANEL WALL THICKNESS. HEADERS
SHALL BE ANCHORED TO THE HOST STRUCTURE WITH ANCHORS APPROPRIATE FOR THE MATERIAL
CONNECTED TO. THE ANCHORS DETAILED ABOVE ARE BASED ON A LOAD FROM 120 M.P.H. FOR SBC
SECTION 1806 FOR A MAXIMUM POSSIBLE SPAN OF THE ROOF PANEL FROM THE HOST STRUCTURE.
ANCHORS BASED ON 120 MPH WIND VELOCITY. FOR HIGHER WIND ZONES USE THE FOLLOWING
CONVERSION:

100-123	130	140	150
#8	#10	#12	#12

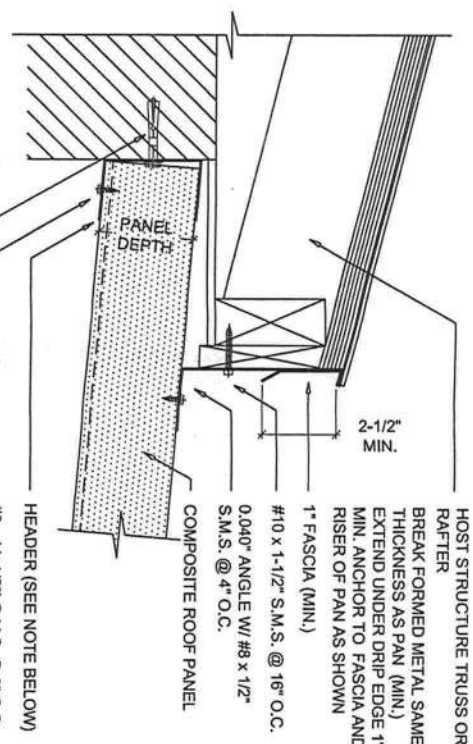


NOTES:

1. FLASHING TO BE INSTALLED A MIN. 6" UNDER THE FIRST ROW OF SHINGLES.
2. STANDARD COIL FOR FLASHING IS 16" .019 MIL. COIL.
3. FIRST ROW OF EXISTING NAILS MUST BE REMOVED TO INSTALL FLASHING PROPERLY.
4. FLASHING WILL BE INSTALLED UNDER THE FELT PAPER WHEN POSSIBLE.
5. HEADER WILL BE PUTTY TAPED AND CAULKED EVEN THOUGH FLASHING IS TO BE
INSTALLED.
6. IF THE DROP FROM THE EDGE OF THE SHINGLE DOWN TO THE TOP OF THE HEADER IS
MORE THAN 1" THEN THE Drip EDGE WILL HAVE TO BE BROKEN TO CONFORM TO THIS
DROP.
7. WHEN USING FLASHING THE SMALLEST SIZE HEADER AVAILABLE SHOULD BE USED. 12"
.03 MIL. ROLL FORM OR 8" BREAKFORM IS BEST SUITED FOR HEADER SINCE IT KEEPS THE
FLAP UP OF THE HEADER BACK FROM THE EDGE OF THE FLASHING.
8. WHEN SEPARATION BETWEEN Drip EDGE AND PANEL FLASHING IS REQUIRED 1/2"
SEPARATION MINIMUM.
9. STRIP SEALANT BETWEEN FASCIA AND HEADER PRIOR TO INSTALLATION.

ALTERNATE DETAIL FOR FLASHING ON SHINGLE ROOFS

SCALE: 2" = 1'-0"

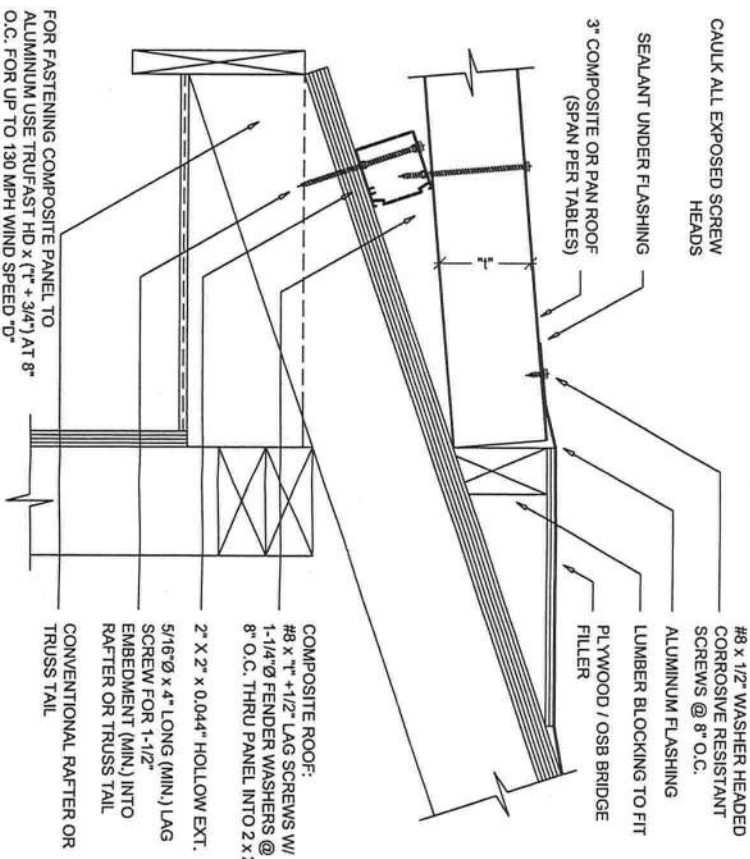


EXISTING HOST STRUCTURE:
WOOD FRAME, MASONRY OR
OTHER CONSTRUCTION
FOR MASONRY USE:
1/4" x 1-1/4" MASONRY
ANCHOR OR EQUAL
@ 24" O.C. FOR WOOD USE
#10 x 1-1/2" S.M.S. OR WOOD
SCREWS @ 12" O.C.

COMPOSITE ROOF PANELS SHALL BE ATTACHED TO EXTRUDED HEADER W/ (3) EACH
#8 x (d+1/2") LONG CORROSION RESISTANT S.M.S.

COMPOSITE ROOF PANEL TO WALL DETAIL

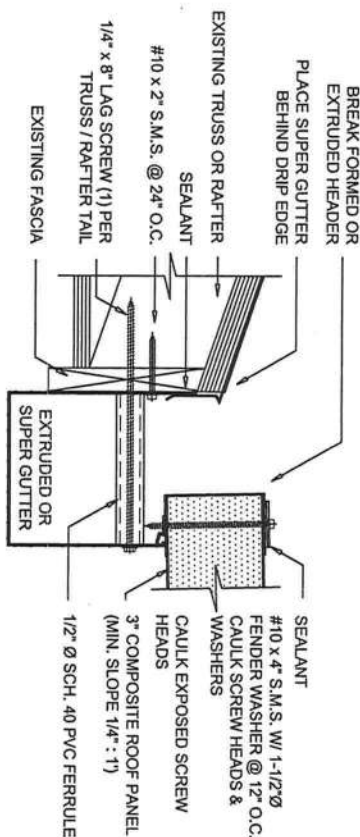
SCALE: 2" = 1'-0"



FOR FASTENING COMPOSITE PANEL TO
ALUMINUM USE TRUFAST HD x (T + 3/4") AT 8"
O.C. FOR UP TO 130 MPH WIND SPEED "D"
EXPOSURE. 6" O.C. ABOVE 130 MPH AND UP
TO A 150 MPH WIND SPEED "D" EXPOSURE.

WEDGE ROOF CONNECTION DETAIL

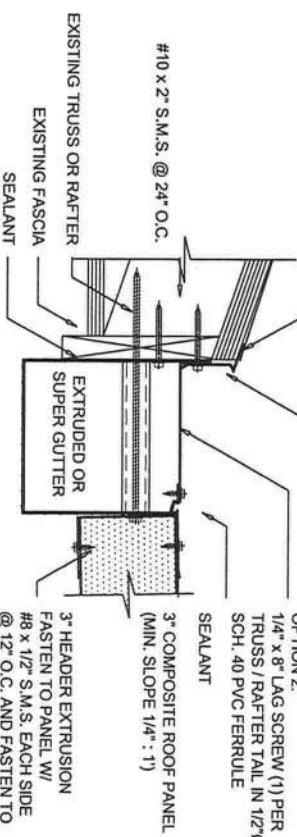
SCALE: 2" = 1'-0"



EXISTING ROOF TO COMPOSITE ROOF PANEL DETAIL 1

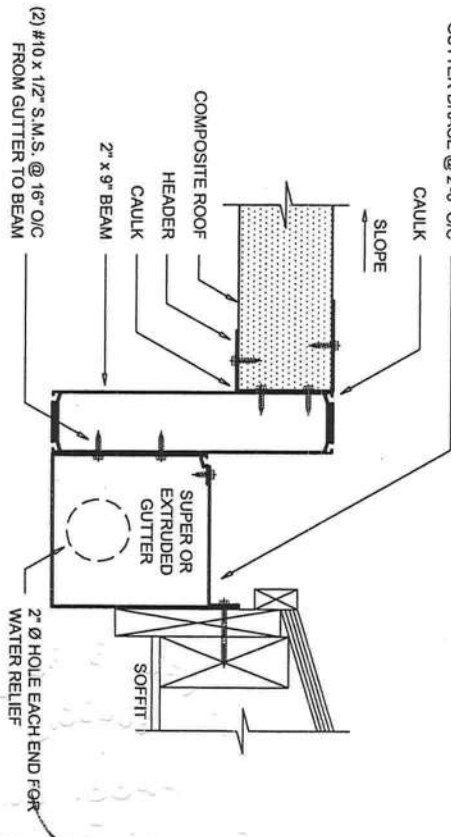
SCALE: 2" = 1'-0"

BREAK FORMED OR
EXTRUDED HEADER
PLACE SUPER GUTTER
BEHIND Drip EDGE
EXISTING TRUSS OR RAFTER
SEALANT
#10 x 2" S.M.S. @ 24" O.C.
1/4" x 8" LAG SCREW (1) PER
TRUSS / RAFTER TAIL
EXISTING FASCIA
EXTRUDED OR
SUPER GUTTER



EXISTING ROOF TO COMPOSITE ROOF PANEL DETAIL 2

SCALE: 2" = 1'-0"



SUPER OR EXTRUDED GUTTER TO 2" x 9" BEAM DETAIL

SCALE: 2" = 1'-0"

12-01-2009

RAISED SEAL COPIES REQUIRED FOR ENGINEERING TO BE VALID FOR PERMITTING

Lawrence E. Bennett, P.E. FL # 16644
CIVIL & STRUCTURAL ENGINEERING
315 Herbert St., Port Orange, FL 32129
Telephone #: (386) 767-4774 Fax #: (386) 767-6556
http://www.lebpe.com/

JAN 06 2010

20B

21

ALUMINUM STRUCTURES DESIGN MANUAL
SCREEN ROOF / SOLID ROOF COMBINATION
SOLID ROOF PANEL PRODUCTS
2007 FLORIDA BUILDING CODE
WITH 2009 SUPPLEMENTS - 2009 EDITION

Turn & Country
INDUSTRIES, INC.
Wholesale Aluminum Distributors

400 W. McHAB ROAD, FORT LAUDERDALE, FLORIDA 33309
PHONE: (954) 970-9999
1-800-432-5019 FAX: (954) 972-1338

GENERAL NOTES AND SPECIFICATIONS

- Certain of the following structures are designed to be mated to Sile Bull block, wood frame or DCA approved modular structures of adequate structural capacity. The contractor / home owner shall verify that the host structure is in good condition and of sufficient strength to hold the proposed addition.
- If the contractor / home owner has a question about the host structure, the owner (at his own expense) shall hire an architect, engineer or certified home inspection company to verify host structure capacity.
- When using TEK screws in lieu of S.M.S., longer screws must be used to compensate for drill head.
- For high velocity hurricane zones the minimum live load shall be 30 PSF.
- The shapes and capacities of piers and composite panels are from "Industry Standard" shapes, except for manufacturers proprietary shapes. Unless the manufacturer of the product is known, use the "Industry Standard" Tables for allowable spans.
- When converting a screen room to a glass room or a carport to a garage, the roof must be checked and reinforced for the enclosed building requirements.
- Composite panels can be loaded as walk on or uniform loads and have, when tested, performed well in either test. The composite panel tables are based on bending properties determined at a deflection limit of L/180.
- Roll formed roof panels (pans) are designed for uniform loads and can not be walked on unless plywood is laid across the ribs. Pans have been tested and perform better in wind uplift loads than dead load + live loads. Spans for pans are based on deflection of L/80 for high wind zone criteria.
- Interior walls & ceilings of composite panels may have 1/2" sheet rock added by securing the sheet rock w/ 1" fine thread sheet rock screws at 16" O.C., each wa
- Spans may be interpolated between values but not extrapolated outside values.
- Design Check List and Inspection Guides for Solid Roof Panel Systems are included in Inspection guides for sections 2, 3A, B, 4 & 5. Use section 2 Inspection guide for solid roof in Section 1.
- All fascia gutter end caps shall have water relief ports.
- All exposed screw heads through roof panels into the roof substructure shall be caulked w/ silicon sealant. Panel area around screws and washers shall be cleaned with xylene (xylo) or other solvent based cleaner prior to applying caulking.
- All aluminum extrusions shall meet the strength requirements of ASTM B221 after powder coating.
- Disinfectants: Aluminum metals that will come in contact with ferrous metal surfaces or concrete/masonry products or pressure treated wood shall be coated w/ protective paint or bituminous materials that are placed between the materials listed above. The protective materials shall be as listed in section 2003.8.4.3 through 2003.8.4.6 of the Florida Building Code or Corobound Cold Galvanizing Primer and Finisher.
- Fasteners or aluminum parts shall be corrosive resistance materials such as non magnetic stainless steel grade 304 or 316. Ceramic coated double zinc coated or powder coated steel fasteners only fasteners that are warranted as corrosive resistant shall be used. Unprotected steel fasteners shall not be used.

SECTION 7 DESIGN STATEMENT

- The roof systems are main force resisting systems and components and cladding in conformance with The 2007 Florida Building Code with 2009 Supplements. Such systems must be designed using loads for components and cladding. Section 7 uses ASCE 7-05 Section 6.5. Analytical Procedure for Components and Cladding Loads. The procedure assumes mean roof height less than 30'; roof slope 0 to 20°; $I = 0.87$ for 100 MPH and 0.77 for 110 MPH or higher wind loads for Attached Carports and Screen Rooms and $I = 1.00$ for Glass and Modular Enclosed Rooms. Negative Internal Pressures are 0.00 for open structures, 0.18 for enclosed structures, and 0.55 for partially enclosed structures. All pressures shown are in PSF.
- Freestanding structures with mono-sloped roofs have a minimum live load of 10 PSF. The design wind loads are those for an open structure and are reduced by the ASCE 7-05 open mono-sloped factor of 0.75.
 - Attached covers such as carports, patio covers, gabled carports and screen rooms have a minimum live load of 10 PSF for 100 to 140-1 MPH wind zones and 30 PSF for 140-2 to 150 MPH wind zones. The design wind loads used are for open and enclosed structures.
 - Glass room roof design loads use a minimum live load of 20 PSF for 100 to 140-1 MPH wind zones and 30 PSF for 140-2 to 150 MPH wind zones and live loads are from ASCE 7-05 for glass and modular rooms.
 - For live loads use a minimum live load of 20 PSF or 30 PSF for 140B and 150 MPH zones. Wind loads are from ASCE 7-05 Section 6.5. Analytical Procedure for glass and modular rooms
 - For partially enclosed structures calculate spans by multiplying Glass and Modular room spans for roll formed roof panels by 0.93 and composite panels by 0.89.

Design Loads for Roof Panels (PSF)

Basic Wind Pressure	Open Structures Mono Sloped		Screen Rooms & Attached Covers		Glass & Modular Enclosed Rooms & Roof Overs		Overhang / Cantilever All Rooms	
	$I = 0.87$ for 90 to 100 MPH $I = 0.77$ for 100 to 150 MPH KCPI = 0.00 Zone 2	$I = 0.87$ for 90 to 100 MPH $I = 0.77$ for 100 to 150 MPH KCPI = 0.00 Zone 2	$I = 0.87$ for 90 to 100 MPH $I = 0.77$ for 100 to 150 MPH KCPI = 0.00 Zone 2	$I = 0.87$ for 90 to 100 MPH $I = 0.77$ for 100 to 150 MPH KCPI = 0.00 Zone 2	$I = 1.00$ KCPI = 0.18 Zone 2	$I = 1.00$ KCPI = 0.18 Zone 2	$I = 1.00$ KCPI = 0.18 Zone 3	$I = 1.00$ KCPI = 0.18 Zone 3
100 MPH	13	13	13	13	17	17	27	27
110 MPH	14	14	14	14	18	18	27	27
120 MPH	17	17	17	17	22	22	33	33
130 MPH	20	20	20	20	26	26	39	39
140-1 MPH	23	23	23	23	30	30	44	44
140-2 MPH	23	23	23	23	30	30	54	54
150 MPH	26	26	26	26	34	34	61	61

* Minimum live load of 30 PSF controls in high wind velocity zones.
To convert from the Exposure "B" loads above to Exposure "C" or "D" see Table 7A on this page.
Anchors for composite panel roof systems were computed on a load width of 10' and 16' projection with a 2' overhang. Any greater load width shall be site specific.

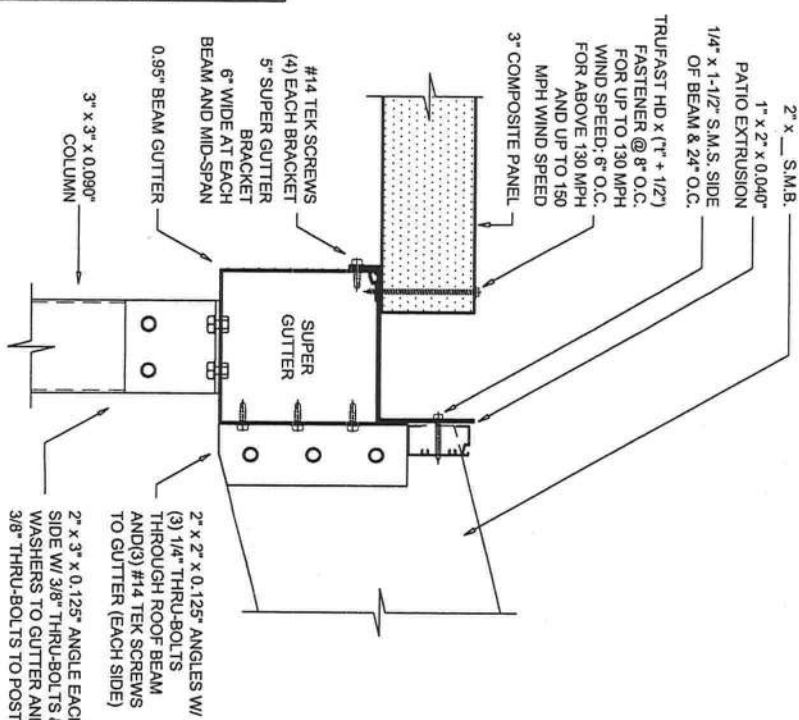
Conversion Table 7A Load Conversion Factors Based on Mean Roof Height from Exposure "B" to "C" & "D"

Mean Roof Height	Exposure "B" to "C"		Exposure "B" to "D"	
	Load Conversion Factor	Span Multiplier	Load Conversion Factor	Span Multiplier
0 - 15'	1.21	0.97	1.47	0.83
15 - 20'	1.29	0.88	1.54	0.81
20 - 25'	1.34	0.86	1.60	0.79
25 - 30'	1.40	0.85	1.66	0.78
30 - 40'	1.37	0.85	1.61	0.79

* Use larger mean roof height of host structure or enclosure values are from ASCE 7-05

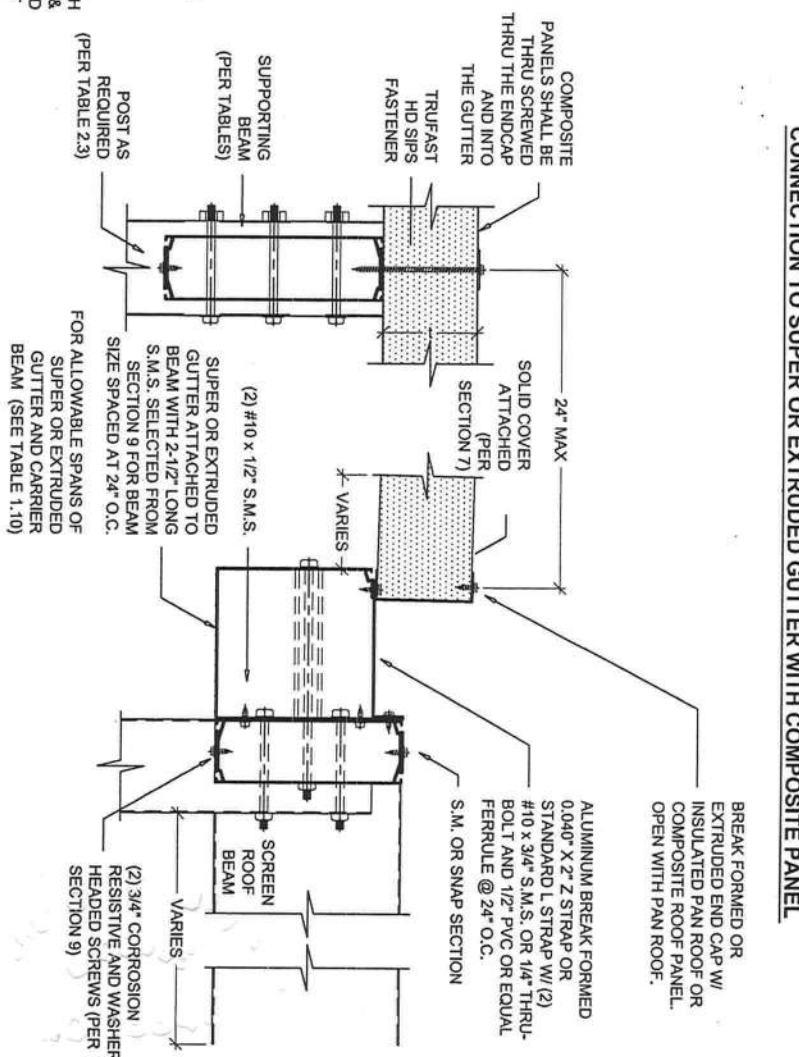
Conversion Table 7B from Enclosed to Partially Enclosed Building Classification Exposure "B"

Exposure "B"	Multipliers for Roofs	
	Loads	Spans
Deflection	1.03	0.92
Bending	1.05	0.90



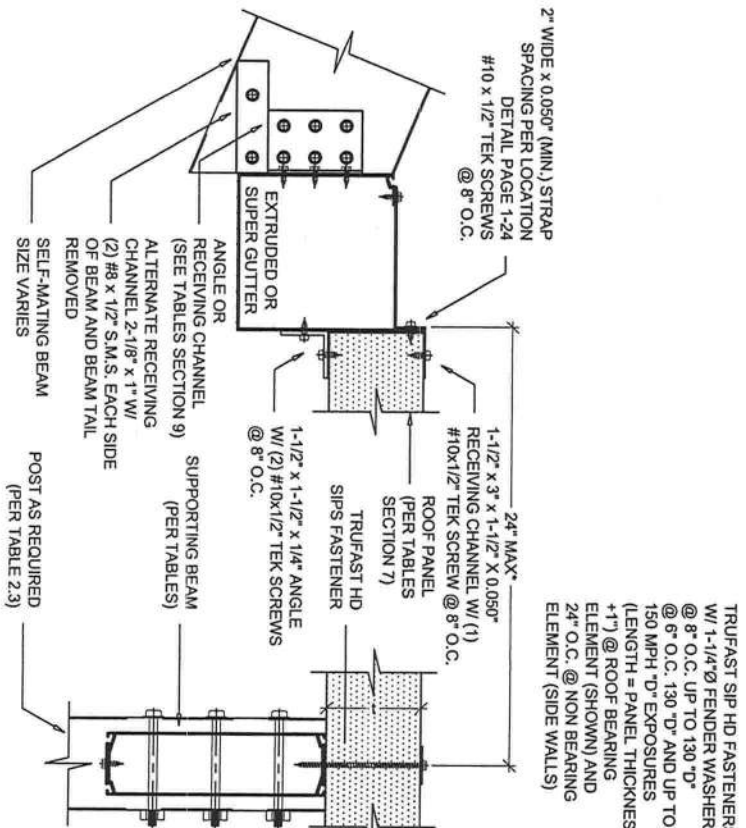
- Notes:
- Can not be used in conjunction with moment connection.
 - All solid roofs shall drain to gutter and away from host structure.

ALTERNATE SELF-MATING BEAM CONNECTION TO SUPER GUTTER



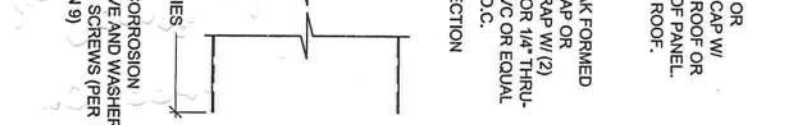
- Notes:
- Beam may be attached to super gutter and solid roof to self-mating beam if a strap or 1/2" P.V.C. or equal ferrule is provided at each beam.
 - Can not be used in conjunction with moment connection.
 - All solid roofs shall drain to gutter and away from host structure.

SUPER OR EXTRUDED GUTTER - SOLID ROOF / SCREEN ROOF COMBINATION



- * WITHOUT SITE SPECIFIC ENGINEERING
- Notes:
- Variations of Super Gutter attachments may be modified to attach to composite roof system.
 - Caulk all exposed screw heads.
 - Can not be used in conjunction with moment connection.
 - All solid roofs shall drain to gutter and away from host structure.

CONNECTION TO SUPER OR EXTRUDED GUTTER WITH COMPOSITE PANEL



12-01-2009

RAISED SEAL COPIES REQUIRED FOR ENGINEERING TO BE VALID FOR PERMITTING

Lawrence E. Bennett, P.E. FL # 16644
CIVIL & STRUCTURAL ENGINEERING
315 Herbert St., Port Orange, FL 32129
Telephone #: (386) 767-4774 Fax #: (386) 767-6556
http://www.lebpe.com/

JAN 4 2010

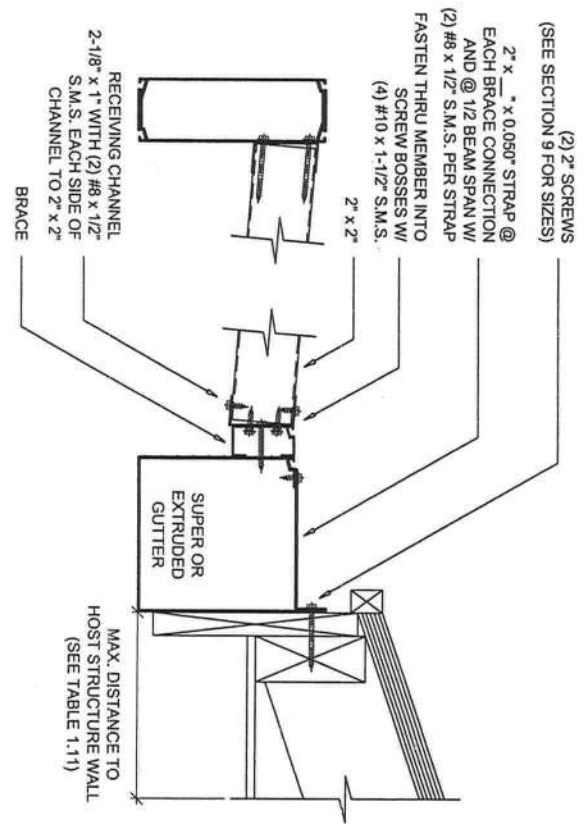
20A

21

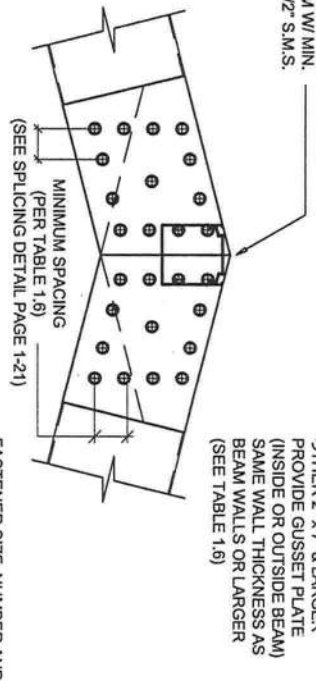
ALUMINUM STRUCTURES DESIGN MANUAL
SCREEN ROOF / SOLID ROOF COMBINATION
SOLID ROOF PANEL PRODUCTS
2007 FLORIDA BUILDING CODE
WITH 2009 SUPPLEMENTS - 2009 EDITION

Turn & Country
INDUSTRIES, INC.
Wholesale Aluminum Distributors

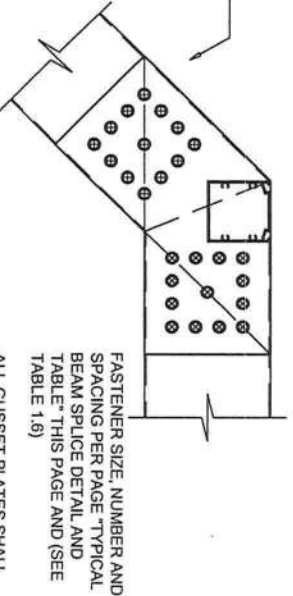
400 W. McNAB ROAD, FORT LAUDERDALE, FLORIDA 33309
PHONE: (954) 970-9999
1-800-432-5019 FAX: (954) 972-1338



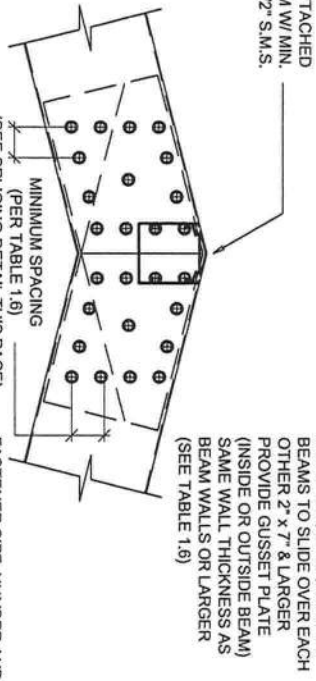
NON-STRUCTURAL BRACE CONNECTION TO SUPER OR EXTRUDED GUTTER
SCALE: 2" = 1'-0"



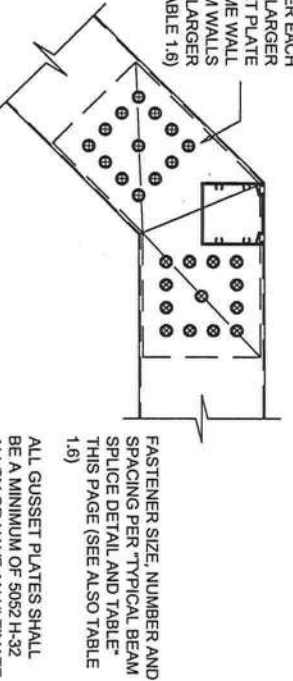
TYPICAL SIDE PLATE CONNECTION DETAIL
SCALE: 2" = 1'-0"



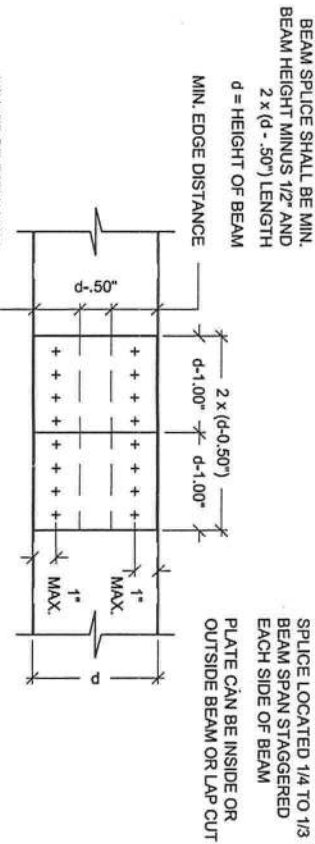
TYPICAL SIDE PLATE CONNECTION DETAIL - MANSARD ROOF
SCALE: 2" = 1'-0"



ALTERNATE SIDE PLATE CONNECTION DETAIL
GUSSET PLATE MOUNTED INTERNALLY
SCALE: 2" = 1'-0"



ALTERNATE SIDE PLATE CONNECTION DETAIL - MANSARD ROOF
GUSSET PLATE MOUNTED INTERNALLY
SCALE: 2" = 1'-0"

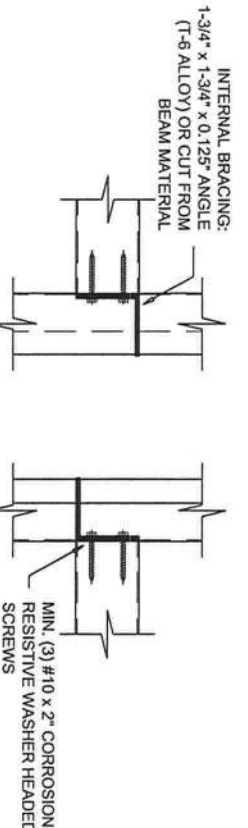


MIN. EDGE DISTANCE
DENOTES SCREW PATTERN NOT NUMBER OF SCREWS
FASTENER SIZE, NUMBER AND SPACING (SEE TABLE 1.6)

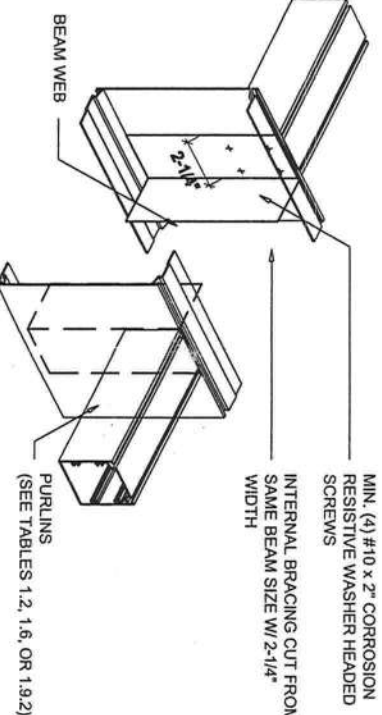
Screw Size	ds (in.)	Edge to Center to 2-4/8 (in.)	Beam Size	Thickness
#8	0.16	3/8	2" x 7" x 0.055" x 0.120"	1/8" = 0.063
#10	0.19	3/8	2" x 8" x 0.072" x 0.224"	1/8" = 0.125
#12	0.21	7/16	2" x 9" x 0.072" x 0.224"	1/8" = 0.125
#14	0.25	5/8	2" x 10" x 0.082" x 0.306"	1/4" = 0.25
5/16"	0.31	5/8	2" x 10" x 0.092" x 0.369"	1/4" = 0.25

* refers to each side of splice
Note: ** use for 2" x 4" and 2" x 6" also
1. All gusset plates shall be minimum 5052 H-32 Alloy or have a minimum yield of 30 ksi.

TYPICAL BEAM SPLICE DETAIL
SCALE: 2" = 1'-0"



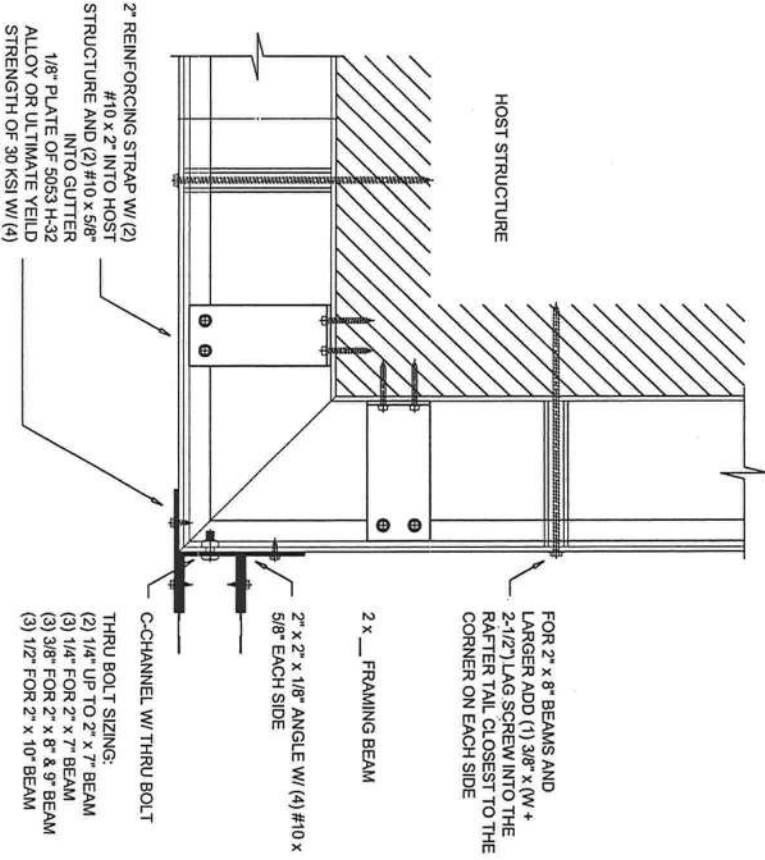
PLAN VIEW
SCALE: 2" = 1'-0"



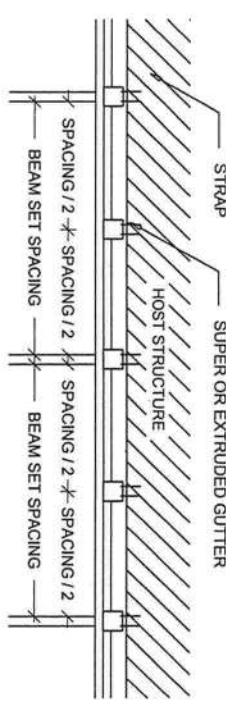
ISOMETRIC VIEW
SCALE: N.T.S.

LATERAL BEAM BRACING DETAILS (FOR SPANS GREATER THAN 40'-0")

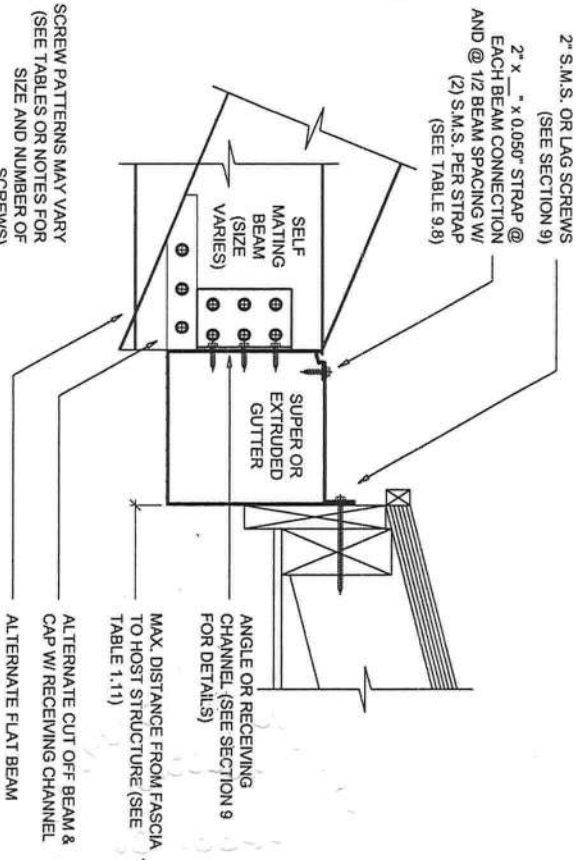
NOTES:
1. REQUIRED FOR SPANS GREATER THAN 40' AND ALL DOME OR TRANSVERSE GABLE ENCLOSURES.
2. FOR ALL PURLINS & GIRTS SHALL USE ALL SCREW BOLTS AVAILABLE & IF THERE IS NO BOTTOM SCREW BOSS ADD AN EXTERNAL OR INTERNAL CLIP TO ANCHOR BOTTOM OF PURLIN OR GIRT.



OUTER MITER DETAIL FOR SUPER GUTTER TO CARRIER BEAM
SCALE: 2" = 1'-0"



STRAP LOCATION FOR SUPER OR EXTRUDED GUTTER REINFORCEMENT
SCALE: 1/4" = 1'-0"



SELF-MATING BEAM CONNECTION TO SUPER OR EXTRUDED GUTTER

RAISED SEAL COPIES REQUIRED FOR ENGINEERING TO BE VALID FOR PERMITTING