

BlackStar OSB 6" Wall SIP Panels

BLACKSTAR
COMPANIES



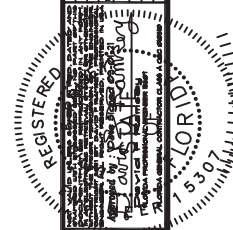
Owner
BackStar IP, LLC
10017 Kingshyre Way
Tampa, FL 33647

ENGINEERING BY
DAVID F. RAMSEY
R & S Engineering and Construction Corporation
CALB 26032
434 Skinner Boulevard, Suite 105
Dunedin, FL 34698
727 409-4839
EMAIL: david@ramseyengineering.com

Index of Sheets

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3. Panel Axial and Anchoring
4. Panel Transverse
5. Panel Impact

This drawing has been digitally signed by
David F Ramsey, Florida Professional Engineer
15307 on the date adjacent to the seal.
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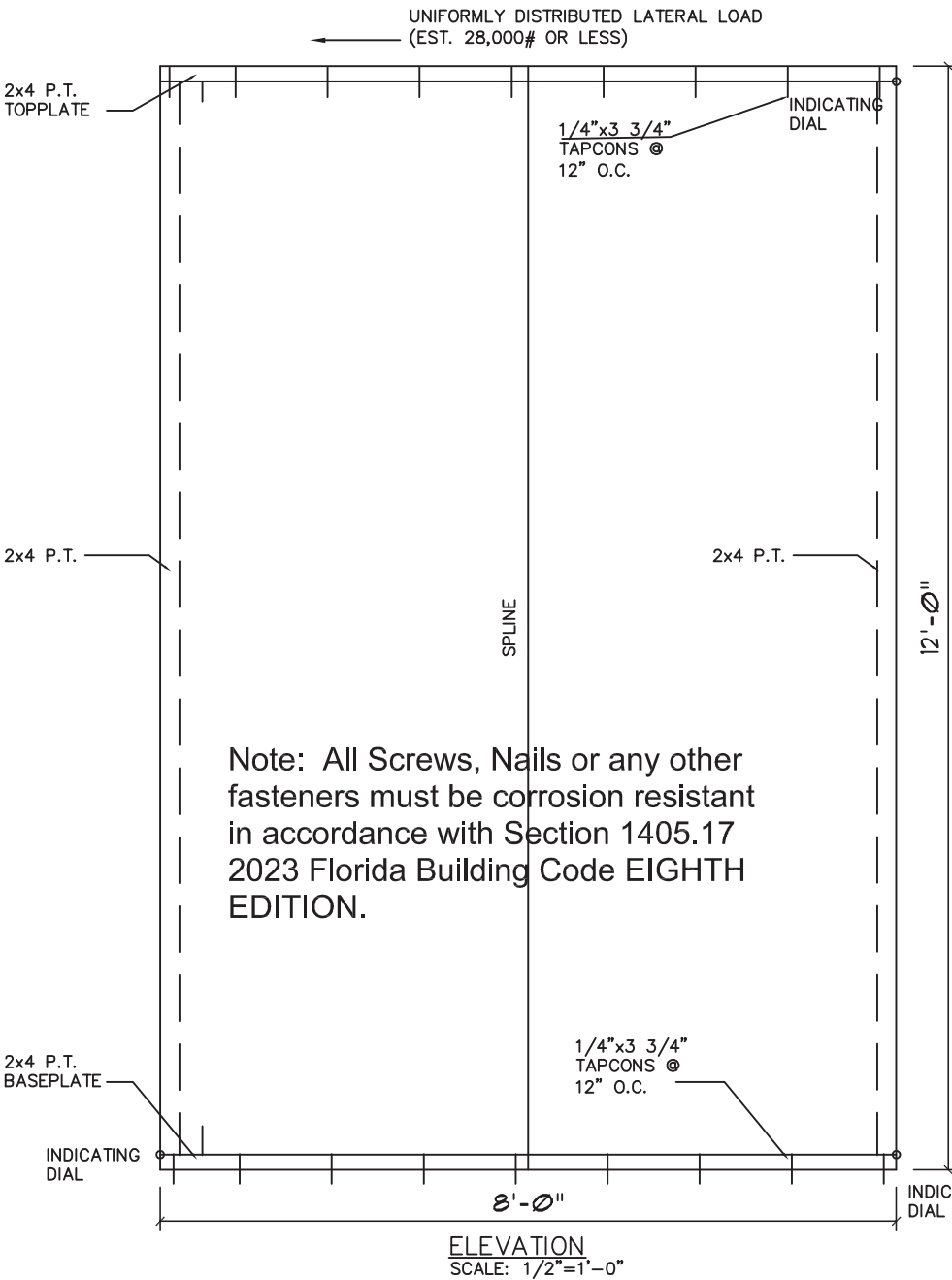
BlackStar Structurally Insulated Panels

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Cover Sheet

For
BlackStar IP, LLC
10017 Kingshyre Way
Tampa, FL 33647

Sheet No.
1 of 4
JN 4-1023



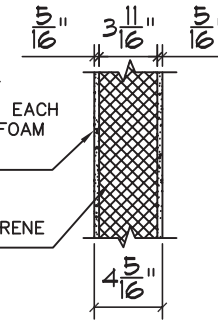
4"x18 GA. GALVANIZED STEEL
SPLINE EACH SIDE W/ #10x1" SS
SCREWS @ 8" O.C. ON BOTH
SIDES OF JOINT OFFSET.

1 1/2" 1 1/2"

PANEL JOINT

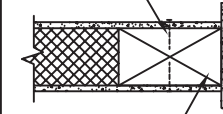
5/16" THICK FIBER
REINFORCED CEMENT
PANEL (NICHHA) ON EACH
SIDE ATTACHED TO FOAM
WITH STRUCTURAL
ADHESIVE

3 11/16" I.O. PCF
EXPANDED POLYSTYRENE
FOAM CORE



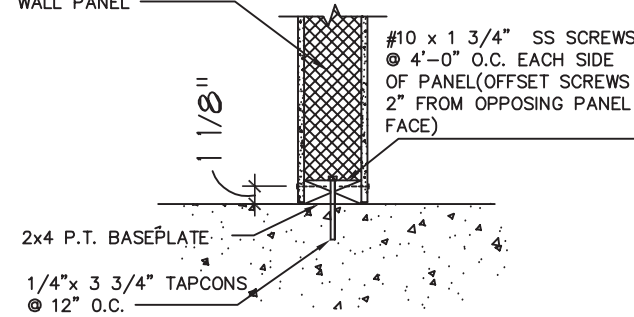
PANEL SECTION
SCALE: 1"=1'-0"

#10 x 1 3/4" SS SCREWS
@ 4'-0" O.C. EACH SIDE
OF PANEL(OFFSET SCREWS
2" FROM OPPOSING PANEL
FACE)



3 1/2"x5 1/2"
PSL
EDGE SECTION
SCALE: 1"=1'-0"

COMPOSITE
WALL PANEL



BASEPLATE SECTION ANCHORING
SCALE: 1"=1'-0"

#10 x 1 3/4" SS SCREWS
@ 4'-0" O.C. EACH SIDE
OF PANEL(OFFSET SCREWS
2" FROM OPPOSING
PANEL FACE)



TOPPLATE SECTION ANCHORING
SCALE: 1"=1'-0"

TEST
TESTING STANDARD:

ASTM E1803-99 - SECTION 8 RACKING LOADS FOR WALL SYSTEMS
- REFERENCING E72-05, SECTION 14 RACKING LOAD TEST
INITIAL LOAD: 0 PSF
INCREMENTAL LOAD: 1000 LBS
TEST UNTIL SHEAR FAILURE OR PANEL CONNECTIONS OCCUR FOR (3)
SPECIMENS

TEST SPECIMEN: (2) 4'x12'x4 5/16" PANELS, AS SHOWN ABOVE

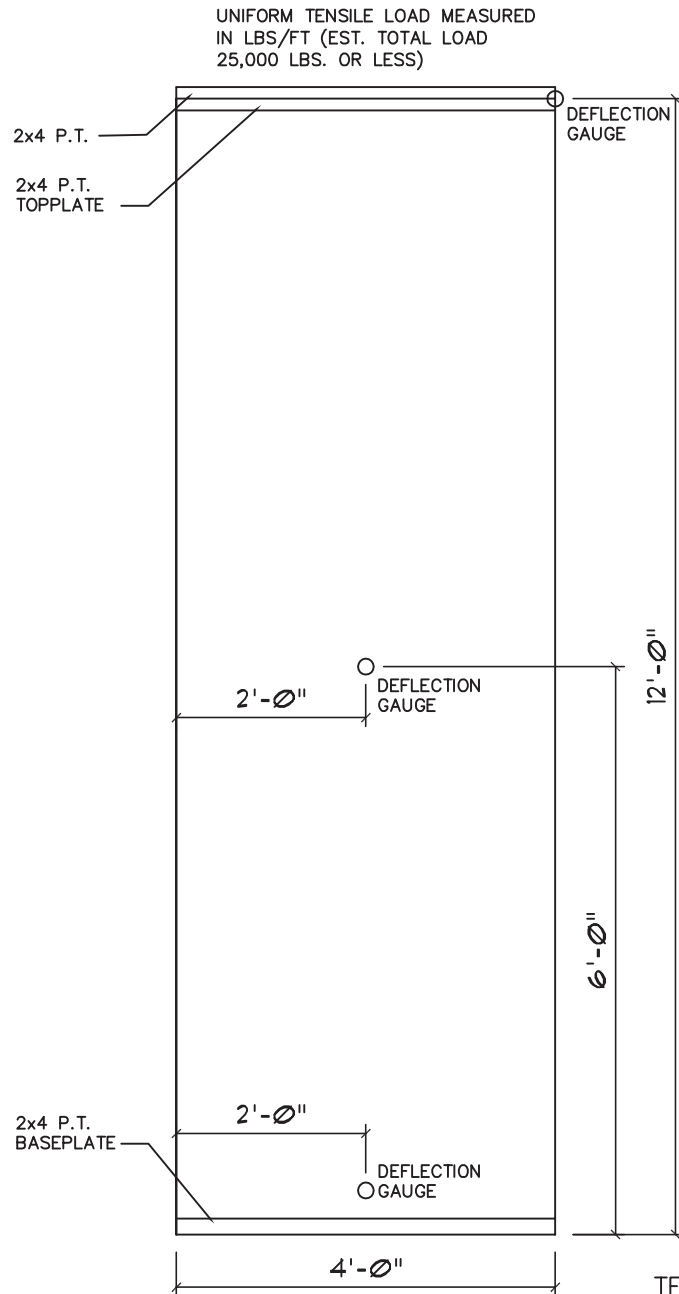
MANUFACTURER: BlackStar IP, LLC, TAMPA, FL

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BlackStar Structurally Insulated Panels

Panel Racking & Anchoring

For Lee Allen, Jr.
BlackStar IP, LLC
10017 Kinspire Way
Tampa, FL 33637



ELEVATION
SCALE: 1/2"=1'-0"

TEST

TESTING STANDARD:

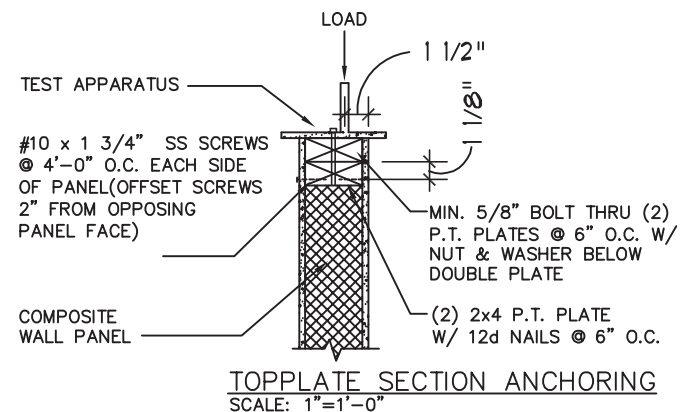
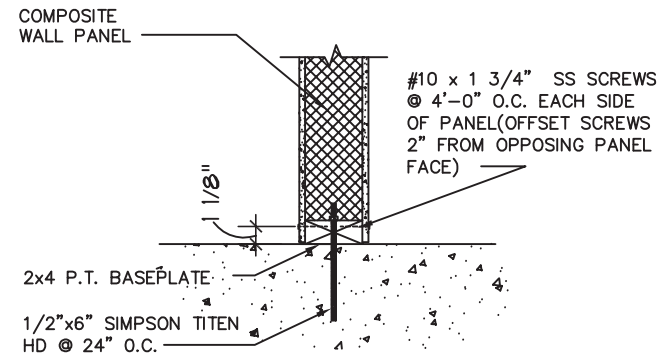
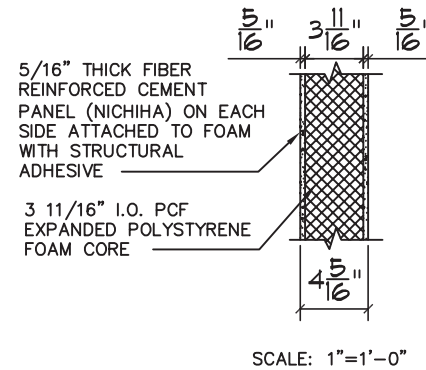
E72-05 - SECTION 10 TENSILE LOAD TEST
INITIAL LOAD: 0 PSF
INCREMENTAL LOAD: 75 LBS/FT
TEST UNTIL FAILURE OCCURS OR UNTIL TOP PLATE IS DETACHED FROM
PANEL FOR (3) SPECIMENS

TEST SPECIMEN:

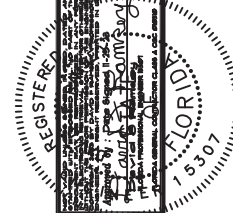
(2) 4'x12'x4 5/16" PANELS, AS SHOWN ABOVE

MANUFACTURER:

BlackStar IP, LLC, TAMPA, FL



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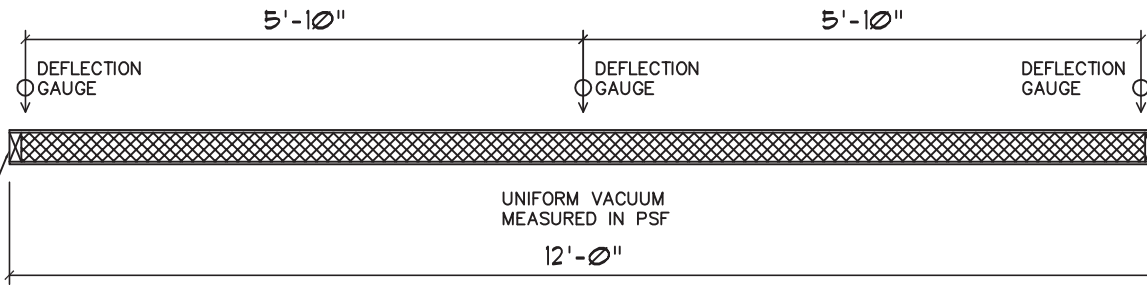


BlackStar Structurally Insulated Panels

Panel Axial and Anchoring

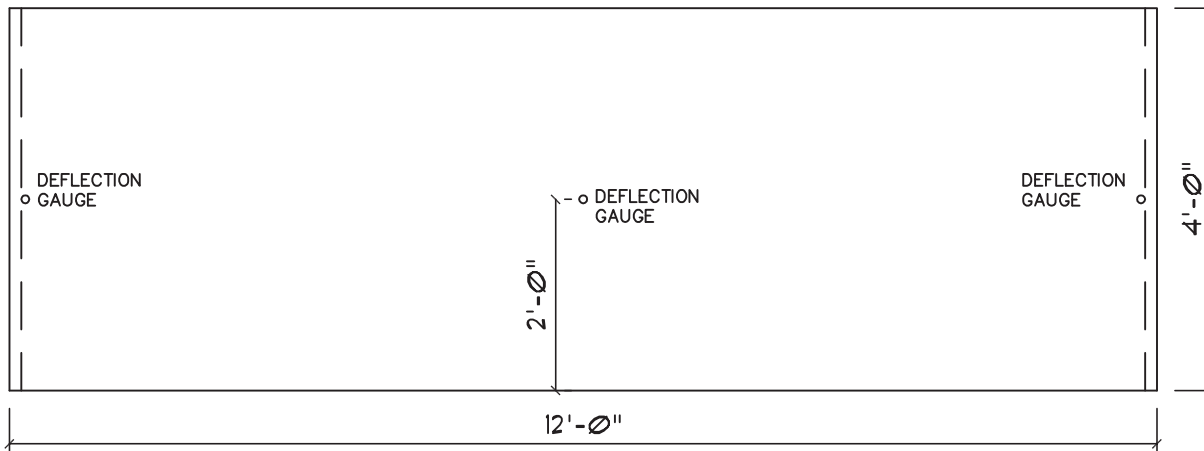
454 Skinner Boulevard
Dunedin, FL 34698
727.498.4989
www.blackstarip.com

2x4 P.T. ; CONNECT TO TEST APPARATUS TO WITHSTAND AN EXCESS OF 1000 LBS/FT CONNECT TO PANEL W/ #10 x 1 3/4" SCREWS @ 4'-0" O.C. EACH SIDE OF PANEL

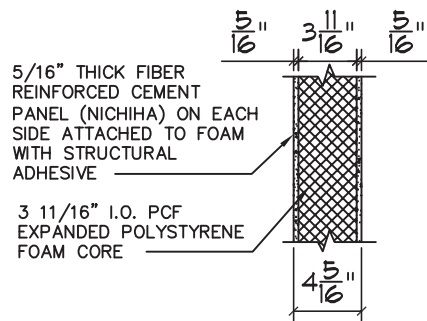


2x4 P.T. ; CONNECT TO TEST APPARATUS TO WITHSTAND AN EXCESS OF 1000 LBS/FT CONNECT TO PANEL W/ #10 x 1 3/4" SCREWS @ 4'-0" O.C. EACH SIDE OF PANEL

ELEVATION
SCALE: 1/2"=1'-0"



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



PANEL SECTION
SCALE: 1"=1'-0"

TEST

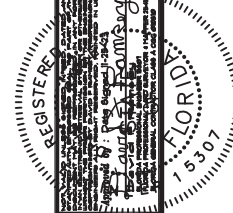
TESTING STANDARD: ASTM E1803-99 & TAS 202- TRANSVERSE LOADS FOR WALL, ROOF AND FLOOR PANELS - SECTION 6 - REFERENCING ASTM E72 - SECTION 11
INITIAL LOAD: 0 PSF
INCREMENTAL LOAD: 1000 LBS
TEST UNTIL SHEAR OR MOMENT FAILURE OF PANEL OCCURS FOR (3) SPECIMENS

TEST SPECIMEN: (2) 4'x12'x4 5/16" PANELS, AS SHOWN ABOVE

MANUFACTURER: BlackStar IP, LLC, TAMPA, FL

MAXIMUM EXPECTED LOAD 200PSF

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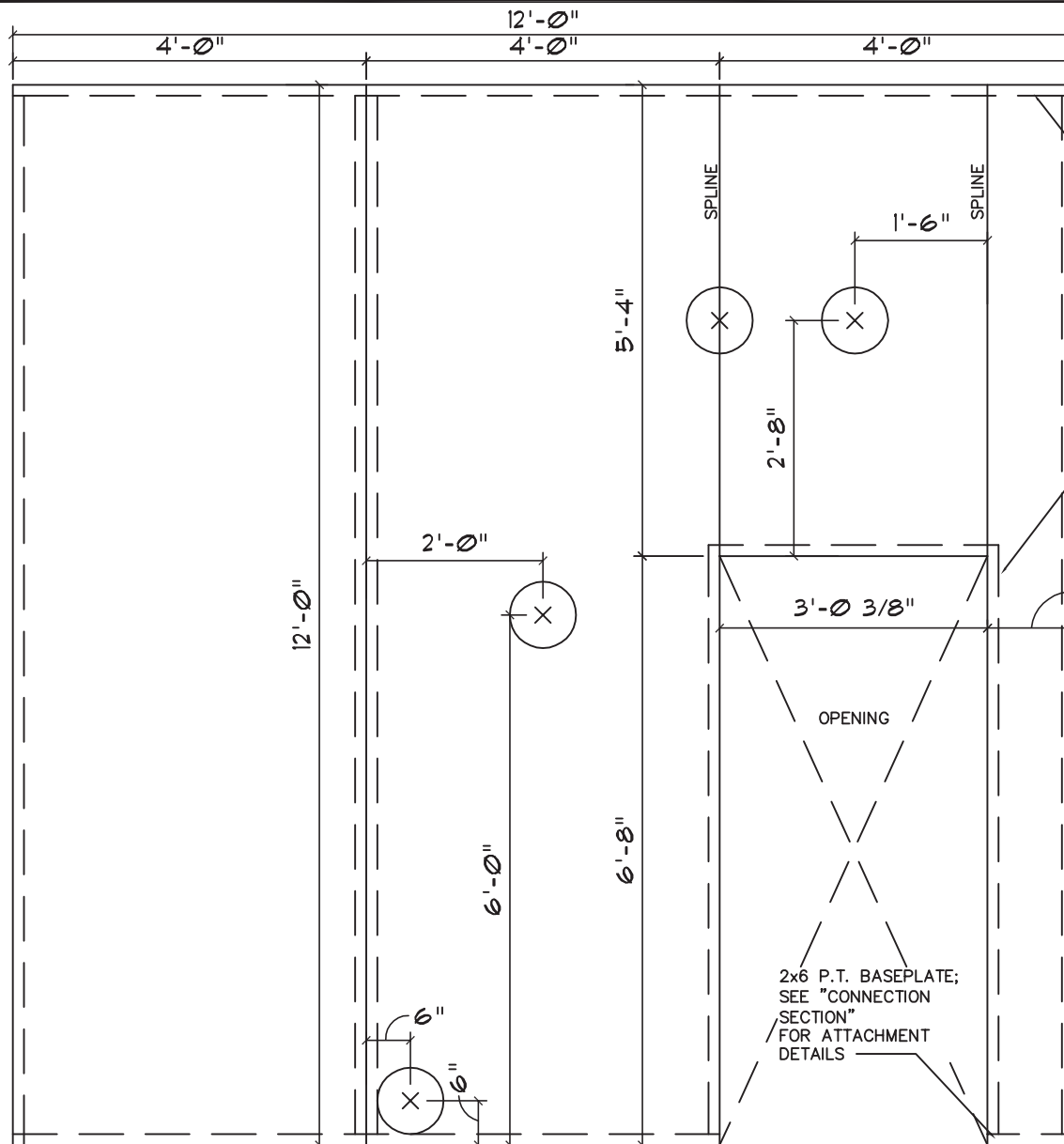


BlackStar Structurally Insulated Panels

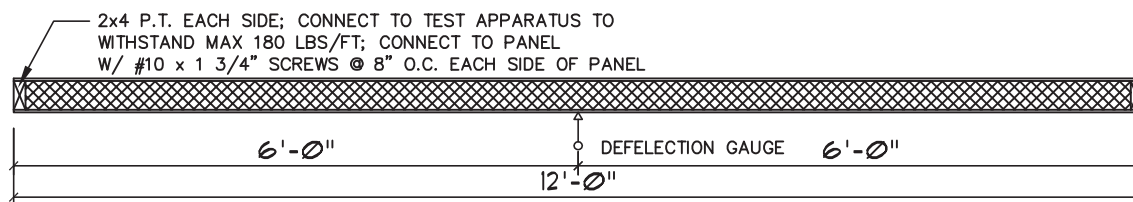
434 Skinner Boulevard
Dunedin, FL 34698
Tel: 813-261-1111
Fax: 813-261-1112
Email: info@blackstarip.com
Web: www.blackstarip.com

Panel Transverse

For
Lee White, Jr.
BlackStar IP, LLC
10017 Kingshore Way
Tampa, FL 33634



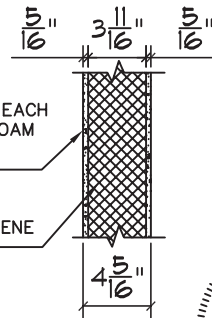
ELEVATION
SCALE: 1/2"=1'-0"



CONNECTION SECTION
SCALE: 1/2"=1'-0"

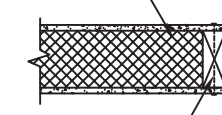
5/16" THICK FIBER REINFORCED CEMENT PANEL (NICHHA) ON EACH SIDE ATTACHED TO FOAM WITH STRUCTURAL ADHESIVE

3 11/16" I.O. PCF EXPANDED POLYSTYRENE FOAM CORE



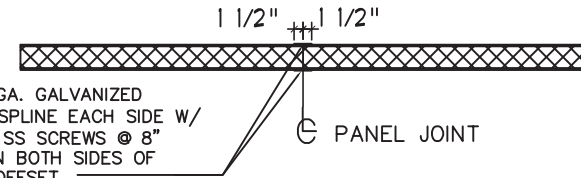
PANEL SECTION
SCALE: 1"=1'-0"

#10 x 1 3/4" SS SCREWS @ 8" O.C. EACH SIDE OF PANEL (OFFSET SCREWS 4" FROM OPPOSING PANEL FACE)



2x4 PT

OPENING SECTION
SCALE: 1"=1'-0"



4"x18 GA. GALVANIZED STEEL SPLINE EACH SIDE W/ #10x1" SS SCREWS @ 8" O.C. ON BOTH SIDES OF JOINT OFFSET.

PLAN VIEW
SCALE: 3/8"=1'-0"

TEST

TESTING STANDARD:

TAS 201-94 & TAS 203 @ CORRESPONDING "DP" FOR 12' PANELS IMPACT W/ THE FOLLOWING MODIFICATION:
"SPECIMEN - A SAMPLE UNIT, SIMILAR TO THAT INSTALLED IN THE FIELD COMPLETE WITH ONE STANDARD DOOR OPENING. SUBMITTED FOR TEST, INCLUDING BUT NOT LIMITED TO ANCHORAGE DEVICES TO BOTH FOUNDATION AND ROOF, SIMILAR TO THAT INSTALLED IN THE FIELD." TEST (3) LIKE PANELS, SHOOTING THE 2x4 AT THE (3) LOCATIONS SHOWN FOR EACH TEST SPECIMEN.

TEST SPECIMEN:

- (1) 4'x12'x4 5/16" PANELS
- (2) 3'-3/8"x5'-4"x4 5/16" PANELS
- (1) 11 5/8"x12'x4 5/16" PANELS, AS SHOWN ABOVE

MANUFACTURER:
BlackStar IP, LLC, TAMPA, FL

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BlackStar Structurally Insulated Panels

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Dunedin, FL 34608
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email: info@blackstarip.com

Panel Transverse

for BlackStar IP, LLC
11367
Tampa, FL 33607