SCALE: N.T.S. ROOF SLOPE: PER SEPARATE PANEL ENGINEERING OR APPROVAL

DECORATIVE ROOF SHINGLES

FOR AESTHETIC PURPOSES: HOA REQUIREMENTS TO MATCH EXISTING HOME. \*\* NOT FOR SEALING/WATERPROOFING THE COMPOSITE ROOF

> EPS PANEL (PER SEPARATE ENGINEERING OR APPROVAL)

SEE FL#2291 FOR ALLOWABLE PANEL ROOF SPANS

SHINGLE NOTES:

SHINGLES MUST HAVE 0.65 OR GREATER SOLAR REFLECTANCE AS RATED BY SHINGLE MANUFACTURER.

STARTER ROWS OF SHINGLES SHALL HAVE TWO LINES AT MID TAB AREA. SHINGLE ROW INSTALLED WITH TABS FACING IN THE UPWARD DIRECTION OF THE ROOF SLOPE.

ALUMINUM OR STEEL FACE, TOP & BOTTOM

SUBSEQUENT ROWS OF SHINGLES INSTALLED WITH THE TABS FACING IN THE DOWNWARD DIRECTION OF THE ROOF SLOPE WITH ONE LINE OF ADHESIVE UNDER THE SHINGLE AT MID COVERED AREA.

## MECHANICAL APPLICATION OF PANEL SHEATHING AND SHINGLES TO PANEL

ROOF SLOPE: PER SEPARATE PANEL ENGINEERING OR APPROVAL

NAIL ROOF SHINGLES TO SHEATHING BOARD IN ACCORDANCE WITH LOCAL BUILDING CODE REQUIREMENTS OR PRODUCT APPROVAL.

> INSTALL FELT PAPER IN ACCORDANCE WITH BUILDING CODE REQUIREMENTS.

> > ADHERE SHEATHING, STAGGERED ON COMPOSITE PANEL AS SHOWN. FASTEN SHEATHING WITH #8 DRYWALL SCREWS. 6" O.C. ON EDGES & 12" O.C. BETWEEN BSAF.

> > > GLUE DOWN SHEATHING BOARD USING BASF CHEMREX CX948 POLYURETHANE ADHESIVE OR BASF DEGASEAL 2000 OR LIQUID NAILS ADHESIVE IN 3/8" THICK CONTINUOUS BEADS TO COMPOSITE ROOF PANELS, SPACED AT 6" O.C., TYP.

UTILIZE BASF CX948 POLYURETHANE OR DEGASEAL 2000 @ TWO 1/2" THICK ADHESIVE LINES PER

SHINGLE, SPACED 4-6" O.C.

30LB FELT PAPER

DECORATIVE ROOF SHINGLES

THICK MIN. OSB OR PLYWOOD EXTERIOR GRADE SHEATHING, STAGGERED

EPS PANEL (PER SEPARATE ENGINEERING OR APPROVAL)

SEE FL#2291 FOR ALLOWABLE PANEL ROOF SPANS

ALUMINUM OR STEEL FACE, TOP & BOTTOM.

ALTERNATE INSTALLATION METHODS PER FLORIDA APPROVAL FL#8101, OR OTHER CERTIFIED, APPROVED ENGINEERING ARE ALSO ACCEPTABLE WITH SHINGLES INCLUDED IN THIS ENGINEERING.

ALLOWABLE DESIGN PRESSURE RATING:

+/- 57.00 PSF

WHEN PRINTED OR PHYSICALLY SEALED, SEAL OF CERTIFYING ENGINEER, AND

ALLOWABLE DESIGN PRESSURES UTILIZED IN THIS DOCUMENT ARE LIMITED TO THE ATTACHMENT OF THE PANEL SHEATHING & SHINGLE ATTACHMENTS TO THE EPS PANELS AS ILLUSTRATED HEREIN. SEE FLORIDA APPROVAL FL# 2291 FOR FOR SEPARATE APPROVED ENGINEERING.

## **GENERAL NOTES:**

- 1. THIS SYSTEM HAS BEEN DESIGNED AND SHALL BE FABRICATED IN ACCORDANCE WITH THE REQUIREMENTS OF THE FLORIDA BUILDING CODE 8TH EDITION (2023). ALSO APPLICABLE FOR THE FBC 7TH EDITION (2020), IBC/IRC (2015 & 2018), AS WELL AS CURRENT VERSIONS OF THE MN, NC, NJ, NY, OH, SC, & VA BUILDING CODES AS APPLICABLE. CODE ENFORCED COMPLIES WITH STATE OF SEAL AND IF MULTIPLE VERSIONS ARE LISTED THEN MOST STRINGENT APPLIES. DESIGN SHALL UTILIZE ASD DESIGN METHOD USING ASCE 7-16 OR ASCE 7-10 CODES FOR SITE SPECIFIC APPLICATIONS AS APPLICABLE.
- THIS CERTIFICATION IS NOT INTENDED FOR USE IN HVHZ ZONES.
- OSB & SHINGLE ATTACHMENT DETAILS ILLUSTRATED HEREIN ARE INTENDED FOR USE WITH NON-HABITABLE SPACE ONLY
- THIS SHEET CERTIFIES STRUCTURAL DESIGN ONLY (WATERPROOFING BY OTHERS). TOTAL SUPERIMPOSED DEAD LOAD ON ANY PANEL SHALL NOT EXCEED 5 PSF, AND THIS WEIGHT SHALL BE SUBTRACTED FROM THE LIVE LOAD ALLOWABLE VALUES IN THE PANEL ROOF SPAN CHARTS WHEN USING THIS INSTALLATION METHOD (SEE PANEL APPROVAL FOR ROOF SPANS)
- 4.1. EXAMPLE: IN A 30PSF WIND PRESSURE/SNOW LOAD ZONE, WITH THE ADDITION OF THE MAXIMUM ALLOWABLE 5PSF DEAD LOAD, THE MODIFIED MAXIMUM ALLOWABLE PANEL SPAN SHALL BE GOVERNED BY LOADING CRITERIA OF 35PSF.
- INSTALL COMPOSITE ROOF PANELS IN ACCORDANCE WITH APPROPRIATE METAL BUILDING PRODUCTS MASTER PLAN SHEETS & SPAN TABLES PER SEPARATE DOCUMENTS. ADHERE ALL SHINGLES WITH BASF CX948 OR 2000 DEGASEAL OR EQUIVALENT (250 PSI MIN. BOND STRENGTH) ADHESIVE SEALANT, AND CLEAN ROOF OF ANY DIRT, GREASE, WATER OR OIL. SEAL ROOF PER PRODUCT APPROVAL FL#2291
- ALL FASTENERS TO BE #8 OR GREATER SAE GRADE 5, UNLESS NOTED OTHERWISE FASTENERS SHALL BE CADMIUM-PLATED OR OTHERWISE CORROSION-RESISTANT MATERIAL AND SHALL COMPLY WITH "SPECIFICATIONS FOR ALUMINUM STRUCTURES" SECTION J.3.1 BY THE ALUMINUM ASSOCIATION, INC., & ANY APPLICABLE FEDERAL, STATE, AND/OR LOCAL
- THE CONTRACTOR SHALL CAREFULLY CONSIDER POSSIBLE IMPOSING LOADS ON ROOF, INCLUDING BUT NOT LIMITED TO ANY CONCENTRATED LOADS WHICH MAY JUSTIFY GREATER DESIGN CRITERIA. THIS ADDITIONAL ROOF LOAD CRITERIA SHALL BE PROPERLY ANALYZED BY A LICENSED ENGINEER OR REGISTERED ARCHITECT.
- THE CONTRACTOR IS RESPONSIBLE TO INSULATE ALL MEMBERS FROM DISSIMILAR MATERIALS TO PREVENT ELECTROLYSIS.
- PANELS TO BE METALS BUILDING PRODUCTS ONLY, EXCEPT AS EXPRESSLY PROVIDED HEREIN. NO CERTIFICATIONS OR AFFIRMATIONS ARE INTENDED.
- ENGINEERING EXPRESS HAS NOT VISITED THIS JOBSITE. INFORMATION CONTAINED HEREIN IS BASED ON CONTRACTOR SUPPLIED DATA AND MEASUREMENTS. ENGINEERING EXPRESS SHALL NOT BE HELD RESPONSIBLE OR LIABLE IN ANY WAY FOR ERRONEOUS OR INACCURATE DATA OR MEASUREMENTS. WORK SHALL BE FIELD VERIFIED PRIOR TO CONSTRUCTION. UPON DISCOVERY OF ANY INACCURATE INFORMATION, THE SIGNING ENGINEER SHALL BE NOTIFIED AND GIVEN AN OPPORTUNITY TO REEVALUATE THE WORK PRIOR TO MODIFICATION OF EXISTING FIELD CONDITIONS AND FABRICATION AND INSTALLATION OF MATERIALS.
- 11. THIS DOCUMENT SHALL NOT BE USED OR REPRODUCED WITHOUT THE ORIGINAL SIGNATURE & RAISED SEAL OF THE CERTIFYING P.E. ALTERATIONS, ADDITIONS OR OTHER MARKINGS TO THIS DOCUMENT ARE NOT PERMITTED AND INVALIDATE OUR CERTIFICATION. PHOTOCOPIES AND UNSEALED DOCUMENTS ARE NOT TO BE ACCEPTED.
- ENGINEER SEAL AFFIXED HERETO VALIDATES STRUCTURAL DESIGN AS SHOWN ONLY. USE OF THIS SPECIFICATION BY CONTRACTOR, et. al. INDEMNIFIES & SAVES HARMLESS THIS ENGINEER FOR ALL COST & DAMAGES INCLUDING LEGAL FEES & APPELLATE FEES RESULTING FROM MATERIAL FABRICATION, SYSTEM ERECTION, & CONSTRUCTION PRACTICES BEYOND THAT WHICH IS CALLED FOR BY LOCAL, STATE, & FEDERAL CODES & FROM DEVIATIONS OF THIS PLAN.
- 13. ALTERATIONS, ADDITIONS, HIGHLIGHTING, OR OTHER MARKINGS TO THIS DOCUMENT ARE ONLY PERMITTED TO SHOW SITE-SPECIFIC CONDITIONS, HOWEVER ANY CHANGES, ALTERATIONS OR ADDITIONS MADE TO THE CONTENT OF THIS DOCUMENT WILL INVALIDATE THIS CERTIFICATION.
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23-59274 **SCALE:** NTS UNLESS NOTE