

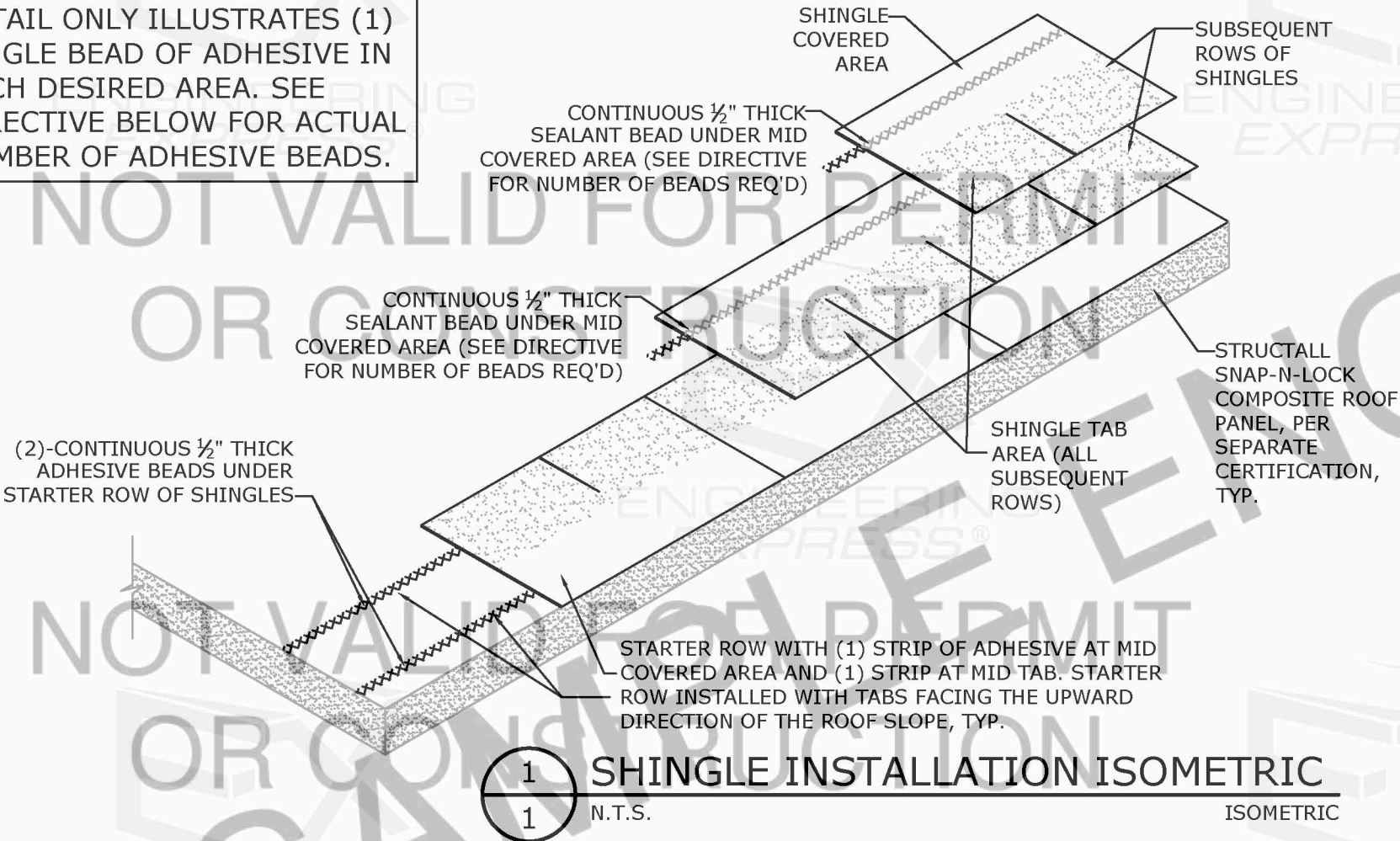


STRUCTALL BUILDING SYSTEMS

SHINGLE ATTACHMENT TO SNAP-N-LOCK EPS PANEL PERFORMANCE EVALUATION

THIS IS A NON-SITE-SPECIFIC PERFORMANCE EVALUATION. A DESIGN PROFESSIONAL SHALL BE RESPONSIBLE FOR CERTIFYING THE APPLICATION OF THIS INFORMATION TO ANY SITE-SPECIFIC LOCATION.

NOTE: FOR CLARITY THIS DETAIL ONLY ILLUSTRATES (1) SINGLE BEAD OF ADHESIVE IN EACH DESIRED AREA. SEE DIRECTIVE BELOW FOR ACTUAL NUMBER OF ADHESIVE BEADS.



DECORATIVE SHINGLE ADHESIVE ATTACHMENT SPECIFICATIONS:

ATTACH SHINGLES TO COMPOSITE ROOF PANELS WITH STRUCTURAL GRADE ADHESIVE*. APPLY ADHESIVE IN A CONTINUOUS 1/2"-5/8" THICK BEAD SO THAT THERE IS A 1" WIDE STRIP OF ADHESIVE WHEN SHINGLE IS PUT IN PLACE. CLEAN ALL JOINTS AND ROOF PANEL SURFACES WITH XYLENE (XYLOL) OR OTHER SOLVENT BASED CLEANER.

FOR 58 PSF MAX. UPLIFT
(SEE GENERAL NOTES FOR DESIGN CRITERIA):

1. STARTER ROWS OF SHINGLES SHALL HAVE (1) STRIP OF ADHESIVE UNDER THE SHINGLE AT MID COVERED AREA AND (1) ONE UNDER THE SHINGLE AT MID TAB AREA. STARTER SHINGLE ROW INSTALLED WITH THE TABS FACING IN THE UPWARD DIRECTION OF THE ROOF SLOPE.
2. SUBSEQUENT ROWS OF SHINGLES INSTALLED WITH THE TABS FACING IN THE DOWNWARD DIRECTION OF THE ROOF SLOPE WITH (1) STRIP OF ADHESIVE UNDER THE SHINGLE AT MID COVERED AREA AS ILLUSTRATED ABOVE.

FOR 78 PSF MAX. UPLIFT
(SEE GENERAL NOTES FOR DESIGN CRITERIA):

1. STARTER ROWS OF SHINGLES SHALL HAVE (2) STRIPS OF ADHESIVE UNDER THE SHINGLE AT MID COVERED AREA AND (2) STRIPS AT MID TAB AREA. SHINGLE ROW INSTALLED WITH THE TABS FACING IN THE UPWARD DIRECTION OF THE ROOF SLOPE.
2. SUBSEQUENT ROWS OF SHINGLES INSTALLED PER PREVIOUS SPECIFICATION WITH (2) STRIPS OF ADHESIVE AT MID COVERED AREA.

* ADHESIVE: SHALL BE STRUCTURAL GRADE WITH A MINIMUM ALLOWABLE BOND STRENGTH OF 500 PSI, RATED FOR USE WITH INTENDED MATERIALS & CONDITIONS. REFER TO MFR. SPECIFICATIONS FOR INSTALLATION (BY OTHERS).

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SPACE RESERVED FOR CERTIFYING ENGINEER'S DIGITAL OR PHYSICAL SEAL & DATE OF CERTIFICATION

DESIGN NOTES:

1. 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 8TH (2023) & 7TH (2020) EDITIONS FLORIDA BUILDING CODE, & THE 2015/2018/2021 INTERNATIONAL BUILDING CODES, 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 LISTED THEN MOST STRINGENT APPLIES.
2. THIS SHEET CERTIFIES STRUCTURAL DESIGN OF THE ADHESIVE ATTACHMENT OF ROOF SHINGLES TO THE COMPOSITE ROOF PANEL ONLY (WATERPROOFING BY OTHERS).
3. NOTE : THIS DOCUMENT IS NOT TO BE USED WITHOUT AN ORIGINAL PEN SIGNATURE & RAISED SEAL OR ELECTRONICALLY VERIFIABLE ELECTRONIC SIGNATURE MEETING ALL DISCLAIMERS SET FORTH HEREIN. RUBBED PENCIL COPIES ARE NOT PERMITTED FOR USE IN ANY WAY.
4. ALL ROOF PANEL ALLOWABLE SPANS AND CORRESPONDING ALLOWABLE DESIGN PRESSURES SHALL BE PER SEPARATE CERTIFICATION.
5. TOTAL SUPERIMPOSED DEAD LOAD ON ANY PANEL SHALL NOT EXCEED 5 PSF, AND THIS WEIGHT SHALL BE SUBTRACTED FROM THE TOTAL LOAD VALUES IN THE PANEL ROOF SPAN CHARTS WHEN USING THIS INSTALLATION METHOD (SEE PANEL APPROVAL FOR ROOF SPANS).
- 5.1. EXAMPLE: IN A 25 PSF WIND PRESSURE/SNOW LOAD ZONE, WITH THE ADDITION OF THE MAXIMUM ALLOWABLE 5 PSF DEAD LOAD, THE MODIFIED MAXIMUM ALLOWABLE PANEL SPAN SHALL BE GOVERNED BY LOADING CRITERIA OF 30 PSF.
6. PANELS TO BE STRUCTALL SNAP-N-LOCK BUILDING SYSTEMS EPS FOAM CORE ROOF PANELS ONLY.
7. INSTALL COMPOSITE ROOF PANELS IN ACCORDANCE WITH STRUCTALL BUILDING SYSTEMS PERFORMANCE EVALUATION PLAN SHEETS & SPAN TABLES PER SEPARATE DOCUMENTS.

GENERAL NOTES:

8. CONTRACTOR SHALL INVESTIGATE AND CONFORM TO ALL LOCAL BUILDING CODE AMENDMENTS WHICH MAY APPLY. DESIGN CRITERIA BEYOND AS STATED HEREIN MAY REQUIRE ADDITIONAL SITE-SPECIFIC SEALED ENGINEERING.
9. SEPARATE 'SITE-SPECIFIC' SEALED ENGINEERING SHALL BE REQUIRED IN ORDER TO DEVIATE FROM LOADS, DEFLECTIONS, OR SPANS CONTAINED HEREIN.
10. THE SYSTEM DETAILED HEREIN IS GENERIC AND DOES NOT PROVIDE INFORMATION FOR A SPECIFIC SITE. FOR SITE CONDITIONS DIFFERENT FROM THE CONDITIONS DETAILED HEREIN, A LICENSED ENGINEER OR REGISTERED ARCHITECT SHALL PREPARE SITE SPECIFIC DOCUMENTS FOR USE IN CONJUNCTION WITH THIS DOCUMENT.
11. THE CONTRACTOR IS RESPONSIBLE TO INSULATE ALL MEMBERS FROM DISSIMILAR MATERIALS TO PREVENT ELECTROLYSIS.
12. ENGINEER SEAL AFFIXED HERE TO 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.
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POSTAL ADDRESS:
2234 NORTH FEDERAL HWY #7664
BOCA RATON, FL 33431
[ENGINEERINGEXPRESS.COM](https://engineeringexpress.com)

STRUCTALL BUILDING SYSTEMS

350 BURBANK ROAD
OLDSMAR, FL 34677
(813) 855-2627

SHINGLE STRUCTURAL ATTACHMENT
PERFORMANCE EVALUATION
FBC 7TH (2020) & 8TH (2023) EDITIONS

REMARKS	DRWN	CHKD	DATE
INITIAL PROJECT (20-25284)	TT	FB	06/02/20
FBC 2023 (23-69352)	CLV	CCB	11/14/23

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