ATTIC BREEZE

ROOFTOP FANS WITH ATTACHED SOLAR PANELS
NOT RATED FOR IMPACT RESISTANCE
VALID FOR USE INSIDE AND OUTSIDE THE HVHZ (SEE LIMITATIONS HEREIN)

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

RICHARD NEET, P.E.
PE# 86488 CA# 9885

JANUARY 22, 2025

RICHARD NEET LICENSE No. P.E. 86488 STATE OF FLORIDA PROFESSIONAL ENGINEER

Digitally signed by Richard Neet
Date: 2025.02.06 16:14:01 -05'00'

DESIGN NOTES:

1. THIS SYSTEM HAS BEEN DESIGNED TO MEET THE MAXIMUM ASD DESIGN WIND PRESSURES AS LISTED BELOW. SEE ACCOMPANYING LIMITATIONS AND CONDITIONS:

MAXIMUM-RATED (ASD) DESIGN WIND PRESSURES:

± 125 psf

REQUIRED DESIGN WIND PRESSURES SHALL BE DETERMINED BY A REGISTERED DESIGN PROFESSIONAL IN ACCORDANCE WITH THE GOVERNING CODE(S) AND ALLOWABLE STRESS DESIGN (ASD) METHODOLOGY.

REQUIRED DESIGN WIND PRESSURES SHALL BE LESS THAN OR EQUAL TO THE MAXIMUM PRESSURES LISTED HEREIN FOR ANY ASSEMBLY AS SHOWN. PRESSURE VALUES IN THIS APPROVAL ARE (ASD) ALLOWABLE DESIGN PRESSURES UNLESS NOTED OTHERWISE.

2. MAXIMUM-RATED ASD WIND PRESSURES INDICATE THE MAXIMUM PRESSURES THAT ALL UNITS DESCRIBED HEREIN ARE APPROVED FOR. SEE LIMITATIONS HEREIN.

3. SITE-SPECIFIC WIND ANALYSIS MAY PRODUCE ALTERNATE LIMITATIONS PROVIDED THAT THE MAXIMUM-RATED WIND PRESSURES STATED HEREIN ARE NOT EXCEEDED.

4. FOR ALL INSTALLATIONS: ROOF UNDERLAYMENT IS BY OTHERS, ROOF COVERING IS BY OTHERS, AND SOFFIT VENTILATION IS BY OTHERS.

5. ROOF SLOPE SHALL COMPLY WITH THE REQUIREMENTS OF THE FBC BUILDING 8TH EDITION (2023) CHAPTER 15.

6. **SOLAR PANELS SHALL BE IN THE FULLY RETRACTED AND SECURED POSITION PRIOR TO ANY NAMED STORM OR SIMILAR HIGH-WIND EVENT.**

7. FOR INSTALLATIONS IN THE HVHZ (BROWARD AND MIAMI-DADE COUNTIES):

7.1. THIS SYSTEM HAS BEEN TESTED AND PASSED FOR WIND-DRIVEN RAIN RESISTANCE PER TAS-100(A). THE SYSTEM IS PERMITTED TO BE USED AS A RIDGE VENT PER THE FBC BUILDING 8TH EDITION (2023) SECTION 1523.6.5.2.13. **WHERE USED AS A RIDGE VENT (VENTILATOR LOCATED WITHIN 18" OF THE RIDGE OF THE ROOF), THE FAN INSTALLATION HEIGHT FROM GRADE SHALL NOT EXCEED 33 ft.**

7.2. ROOF UNDERLAYMENT BY OTHERS, ROOF COVERING BY OTHERS, SOFFIT VENTILATION BY OTHERS, AND ATTIC BREEZE FANS SHOWN HEREIN SHALL COMPLY WITH ALL REQUIREMENTS OF THE FBC BUILDING 8TH EDITION (2023) SECTIONS 1518 AND 1519 AS ARE APPLICABLE.

TERMINOLOGY:

THE FOLLOWING ABBREVIATIONS MAY APPEAR IN THIS APPROVAL:

"ADDTL" FOR "ADDITIONAL", "AHJ" FOR "AUTHORITY HAVING JURISDICTION", "ALUM" FOR "ALUMINUM, "ASD" FOR "ALLOWABLE STRESS DESIGN", "BO" FOR "BUILD-OUT", "CS" FOR "CARBON STEEL", "DIMS" FOR "DIMENSIONS", "EA." FOR "EACH", "E.D."/"EDGE"/"EDGE DIST." FOR "EDGE DISTANCE", "ELEV" FOR "ELEVATION", "EMBED" FOR "EMBEDMENT", "EQ"/"EQUIV." FOR "EQUIVALENT", "EXT" FOR "EXTERIOR", "FBC" FOR "FLORIDA BUILDING CODE", "ft" OR " ' " FOR "FEET", "G" FOR "SPECIFIC GRAVITY", "GA" FOR "GAUGE", "GALV" FOR "GALVANIZED", "GFB" FOR "GROUT-FILLED BLOCK", "GR" FOR "GRADE", "H" FOR "HEIGHT", "HOLLOW" FOR "HOLLOW BLOCK", "HORIZ" FOR "HORIZONTAL", "HVHZ" FOR "HIGH-VELOCITY HURRICANE ZONE", "in" OR " " " FOR "INCHES", "INT" FOR "INTERIOR", "KSI" FOR "1,000 lb / in^2", "L" FOR "LENGTH", "LB" FOR "POUND", "MAX" FOR "MAXIMUM, "MIN" FOR "MINIMUM", "N.T.S." FOR "NOT TO SCALE", "O.C." FOR "ON-CENTER", "P.E." FOR "PROFESSIONAL ENGINEER", "PERP" FOR "PERPENDICULAR", "PSF" FOR "POUNDS PER SQUARE FOOT (lb/ft^2)", "PSI" FOR "POUNDS PER SQUARE INCH (lb/in^2)", "QTY" FOR "QUANTITY", "REF." FOR "REFERENCE", "SCHED." FOR "SCHEDULE", "SDS" FOR "SELF-DRILLING SCREWS", "SMS" FOR "SHEET METAL SCREWS", "SPECS" FOR "SPECIFICATIONS", "SS" FOR "STAINLESS STEEL", "SUB" FOR "SUBMITTAL", "TAS" FOR "TESTING APPLICATION STANDARD", "TYP." FOR "TYPICAL", "ULT" FOR "ULTIMATE LOADS", "U.N.O." FOR "UNLESS NOTED OTHERWISE", "UTS" OR "Fu" FOR "ULTIMATE TENSILE STRENGTH/STRESS", "VERT" FOR "VERTICAL", "W" FOR "WIDTH", "WLL" FOR "WORKING LOAD LIMIT", "W/" FOR "WITH", "W/O" FOR "WITHOUT", "YS" FOR "YIELD STRENGTH", "#" FOR "NUMBER", "&" FOR "AND", AND "Ø" FOR "DIAMETER".

VISIT **ECALC.IO/GLOSSARY** OR CONTACT ENGINEERING EXPRESS FOR ADDITIONAL ABBREVIATION/TERMINOLOGY CLARIFICATIONS.

GENERAL NOTES:

1. THIS SYSTEM HAS BEEN DESIGNED AND SHALL BE FABRICATED IN ACCORDANCE WITH THE REQUIREMENTS OF THE FLORIDA BUILDING CODE EIGHTH EDITIION (2023). THIS SYSTEM MAY BE USED WITHIN AND OUTSIDE OF THE HIGH-VELOCITY HURRICANE ZONE (HVHZ). THIS DESIGN IS NOT INTENDED TO CERTIFY MISSILE IMPACT RESISTANCE OF THE SYSTEM.

2. THIS IS A STRUCTURAL (STATIC WIND & WIND-DRIVEN RAIN RESISTANCE) PERFORMANCE EVALUATION ONLY. NO ELECTRICAL OR TEMPERATURE PERFORMANCE RATINGS OR CERTIFICATIONS ARE OFFERED OR IMPLIED HEREIN. UNDER NO CIRCUMSTANCE DOES THIS PERFORMANCE EVALUATION GUARANTEE, IMPLY, OR STATE PERFORMANCE OF THE UNIT IS MAINTAINED DURING OR AFTER A DESIGN EVENT.

3. DESIGN & CERTIFICATION OF THE SYSTEM FOR STATIC WIND LOADS ARE APPROVED THROUGH TEST REPORT NUMBERS MED-2128a, MED-2128b, MED-2128c, AND MED-2128d, BY QAI LABORATORIES, PER ASTM E330 & TAS 202 TEST STANDARDS. PRESSURE VALUES IN THIS APPROVAL ARE (ASD) ALLOWABLE DESIGN PRESSURES UNLESS NOTED OTHERWISE. DESIGN PRESSURES NOTED HEREIN ARE BASED ON MAXIMUM TESTED PRESSURES DIVIDED BY A 2.0 SAFETY FACTOR.

4. DESIGN & CERTIFICATION OF THE SYSTEM FOR WIND-DRIVEN RAIN RESISTANCE ARE APPROVED THROUGH TEST REPORT NUMBER MED-2128e-RT BY QAI LABORATORIES, PER TAS-100(A) TEST STANDARD.

5. FAN SELF-FLASHING (DIRECT MOUNT) BOTTOM PANEL AND ATTIC BREEZE CURB SHALL BE CONSTRUCTED OF 22 GA. (0.027") GALVALUME GALV. STEEL. THE GALVALUME STEEL IS CONSIDERED BY THIS OFFICE TO BE YS = 33 ksi MIN. & UTS = 45 ksi MIN. GALV. STEEL. CONTACT "GALVALUME" MANUFACTURER FOR CONFIRMATION IF NEEDED. CONTACT ATTIC BREEZE FOR FURTHER SYSTEM INFORMATION.

6. UNLESS NOTED OTHERWISE, ALL SHEET METAL SCREWS SPECIFIED HEREIN SHALL BE #10 (0.190") MIN. Ø SHEET METAL SCREWS (16 MIN. THREADS PER INCH), 304 OR 316 STAINLESS STEEL OR CORROSION-RESISTANT COATED SAE GR. 5 CARBON STEEL. PROVIDE (5) PITCHES MINIMUM PAST THE THREAD PLANE FOR ALL SHEET METAL SCREWS.

7. FOR ALL FASTENERS: U.N.O. HEREIN, PROVIDE 3xDIAMETER MIN. SPACING FROM NEIGHBORING FASTENERS AND 1.5xDIAMETER MIN. EDGE DISTANCE TO ANY EDGES OF THE MEMBER(S) IN CONTACT. PROVIDE WASHERS FOR ALL FASTENERS, SIZED TO FIT THE FASTENER INNER DIAMETER, TYP.

8. ALL FASTENERS SHALL HAVE APPROPRIATE CORROSION PROTECTION TO PREVENT ELECTROLYSIS. REFER TO FASTENER MANUFACTURER'S PUBLISHED DATA SHEETS AND RECOMMENDATIONS FOR FASTENER INSTALLATION INSTRUCTIONS.

9. ALL ALUMINUM SHALL BE 606-T6 OR BETTER, U.N.O.

10. THE CONTRACTOR IS RESPONSIBLE TO INSULATE ALL MEMBERS FROM DISSIMILAR MATERIALS TO PREVENT ELECTROLYSIS.

11. ELECTRICAL GROUND, WHEN REQUIRED, TO BE DESIGNED & INSTALLED BY OTHERS.

12. 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. PERFORMANCE OF THE HOST STRUCTURE TO SUPPORT THE UNIT ASSEMBLY SHALL BE PER SEPARATE CERTIFICATION OR BY OTHERS.

13. 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.

14. WATER-TIGHTNESS OF EXISTING HOST SUBSTRATE SHALL BE THE FULL RESPONSIBILITY OF THE INSTALLING CONTRACTOR. CONTRACTOR SHALL ENSURE THAT ANY REMOVED OR ALTERED WATERPROOFING MEMBRANE IS RESTORED AFTER FABRICATION AND INSTALLATION OF STRUCTURE PROPOSED HEREIN. THIS ENGINEER SHALL NOT BE RESPONSIBLE FOR ANY WATERPROOFING OR LEAKAGE ISSUES WHICH MAY OCCUR AS WATER-TIGHTNESS SHALL BE THE FULL RESPONSIBILITY OF THE INSTALLING CONTRACTOR.

15. INTERIOR MECHANISM AND/OR ELECTRICAL CIRCUITRY ARE OUTSIDE THE SCOPE OF THIS PROUCT EVALUATION.

16. PRODUCT COMPONENTS SHALL BE OF THE MATERIAL(S) SPECIFIED IN THE MANUFACTURER-PROVIDED PRODUCT SPECIFICATIONS. ALL SUPPORTING COMPONENTS WHICH ARE PERMANENTLY INSTALLED SHALL BE PROTECTED AGAINST CORROSION, CONTAMINATION, AND OTHER SUCH DAMAGE AT ALL TIMES.

NOTE REGARDING USE OF THIS DOCUMENT & USE OUTSIDE FLORIDA:

THIS IS A NON-SITE-SPECIFIC STRUCTURAL PERFORMANCE EVALUATION. THIS PRODUCT EVALUATION IS VALID FOR USE IN **FLORIDA ONLY**. USE OF THIS EVALUATION REQUIRES A REVIEW & CERTIFICATION BY A LOCAL DESIGN PROFESSIONAL WHO SHALL BE RESPONSIBLE FOR THE PROPER ADAPTATION OF THIS GENERAL PERFORMANCE EVALUATION TO ANY SITE-SPECIFIC PROJECT. CONTACT THIS OFFICE AT **ENGINEERINGEXPRESS.COM/QUOTE** FOR ASSISTANCE WITH YOUR PROJECT-SPECIFIC NEEDS & FOR ADAPTATION & CERTIFICATION OF THIS DOCUMENT OUTSIDE OF FLORIDA.

ENGINEER SIGNATURE & SEAL NOTICE:

*PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED & SEALED. SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.
***FOR FLORIDA STATEWIDE PRODUCT APPROVALS (FSAs) REGISTERED & APPROVED WITH THE STATE OF FLORIDA:**
ORIGINAL, SEALED COPIES OF APPROVED FLORIDA PRODUCT APPROVALS ARE NOT REQUIRED FOR PERMIT.
SEE **ECALC.IO/SEAL** TO LEARN MORE.

GENERAL NOTES:

17. ENGINEER SEAL AFFIXED HERETO VALIDATE 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.

18. **SURVIVABILITY:** THIS EVALUATION IS VALID FOR A NEWLY INSTALLED UNIT AND DOES NOT INCLUDE CERTIFICATION OF THE PRODUCT BEYOND A DESIGN EVENT OR IF IMPACTED BY ANY DEBRIS. INSPECTIONS SHALL BE IMPLEMENTED ANNUALLY BY THE END USER AND AFTER EVERY NAMED STORM. ALL FASTENERS AND CABINET COMPONENTS ARE TO BE VERIFIED, AND ALL DAMAGED, LOOSE, CORRODED, AND/OR BROKEN FASTENERS AND CABINET COMPONENTS SHALL BE REPLACED TO ENSURE STRUCTURAL INTEGRITY AGAINST HURRICANE WIND FORCES. CONTACT THIS OFFICE FOR ANY REEVALUATION NEEDS OR AS DESIGNATED BY THE AUTHORITY HAVING JURISDICTION.

19. **DURABILITY:** COMPONENTS OR COMPONENT ASSEMBLIES SHALL NOT DETERIORATE, CRACK, FAIL, OR LOSE FUNCTIONALITY DUE TO GALVANIC CORROSION OR WEATHERING. ALL SUPPORTING COMPONENTS WHICH ARE PERMANENTLY INSTALLED SHALL BE PROTECTED AGAINST CORROSION, CONTAMINATION, AND OTHER SUCH DAMAGE AT ALL TIMES. EACH COMPONENT OR COMPONENT ASSEMBLY SHALL BE SUPPORTED AND ORIENTED IN ITS INTENDED INSTALLATION POSITION. ALL EXPOSED PLASTIC COMPONENTS SHALL BE CERTIFIED TO RESIST SUNLIGHT EXPOSURE AS SPECIFIED BY ASTM B117, OR ASTM G155 IN BROWARD OR MIAMI-DADE COUNTIES.

20. **EXTENT OF CERTIFICATION:** CERTIFICATION PERTAINS TO THE OVERALL STRUCTURAL INTEGRITY OF THE UNIT COMPONENTS LISTED WITHIN THE EVALUATION AS REQUIRED BY CODE, SUBJECT TO THE LIMITATIONS AND CRITERIA STATED HEREIN. OPERABILITY DURING OR AFTER A DESIGN EVENT IS NOT INCLUDED IN THIS CERTIFICATION. WATER INFILTRATION IS OUTSIDE THE BOUNDS OF THIS CERTIFICATION. NO OTHER CERTIFICATIONS ARE INTENDED OTHER THAN AS DESCRIBED HEREIN. THIS EVALUATION ALONE DOES NOT OFFER ANY EVALUATION FOR LARGE MISSILE IMPACT DEBRIS OR CYCLIC WIND REQUIREMENTS UNLESS SPECIFICALLY STATED HEREIN.

21. ALTERATIONS, ADDITIONS, AND OTHER MARKINGS TO THIS DOCUMENT ARE NOT PERMITTED AND INVALIDATE THIS CERTIFICATION.

22. EXCEPT AS EXPRESSLY PROVIDED HEREIN, NO ADDITIONAL CERTIFICATIONS OR AFFIRMATIONS ARE INTENDED.

VISIT ECALC.IO/74171

FOR SITE-SPECIFIC DEVIATIONS & MORE INFORMATION ABOUT THIS DOCUMENT OR SCAN THIS QR CODE

VISIT ENGINEERINGEXPRESS.COM/STORE FOR ADDITIONAL PLANS, REPORTS & RESOURCES

FL 47212.1

ENGINEERING EXPRESS®
POSTAL ADDRESS:
2234 NORTH FEDERAL HWY # 7664
BOCA RATON, FL 33431
ENGINEERINGEXPRESS.COM

ATTIC BREEZE
1370 FM 116
GATESVILLE, TX 76528
(254) 865-9999

ROOFTOP FANS WITH ATTACHED SOLAR PANELS
FLORIDA BUILDING CODE EIGHTH EDITION (2023)
FLORIDA STATEWIDE APPROVAL (FSA FL#XXXX.X)

REMARKS	DRWN	CHKD	DATE
INIT ISSUE	EPR	RWN	12/19/24

24-74171

SCALE: NTS UNLESS NOTED

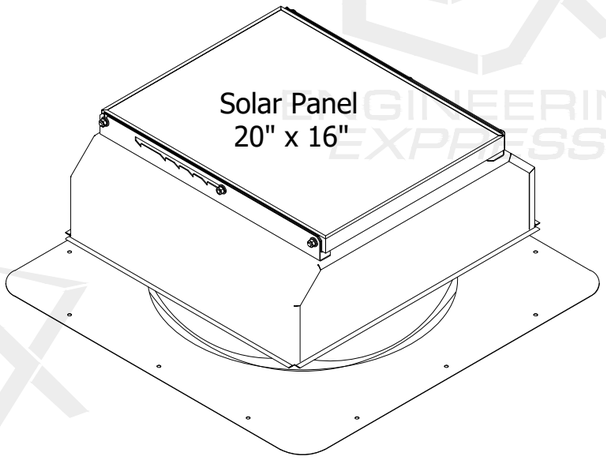
01 OF 6

UNIT MODELS (SIZES)

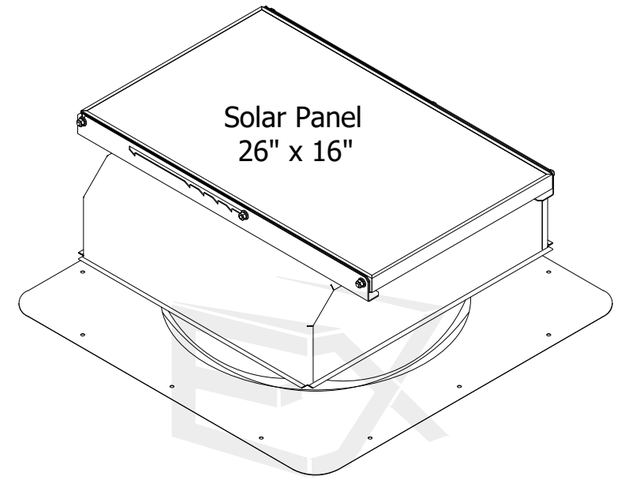
APPROVED UNIT MODELS	
SOLAR PANEL SIZE	**APPROVED UNIT MODEL NUMBERS**
20" LONG x 16" WIDE	AB-2523A, AB-2543A, AB-3523A, AB-3543A, AB-4023A, AB-4043A
26" LONG x 16" WIDE	AB-4523A, AB-4543A, AB-5023A, AB-5043A

MODEL NOTES:

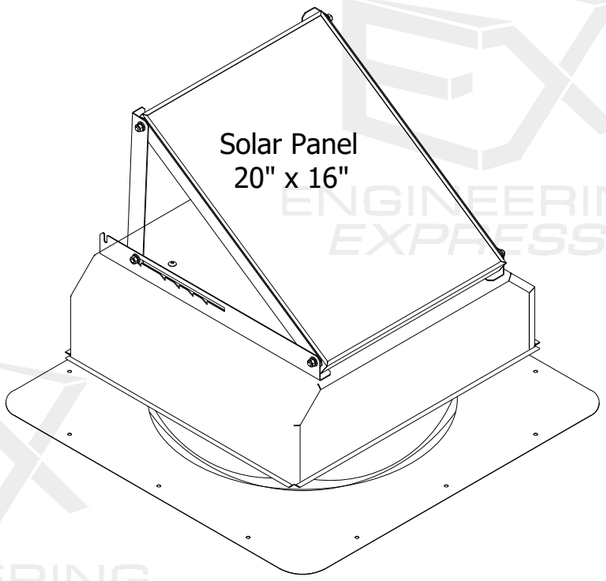
1. ALL UNIT MODELS EMPLOY THE SAME UNDERLYING FAN; MODELS VARY BY TOP-MOUNTED SOLAR PANEL SIZE. SEE DETAILS.
2. UNIT MODELS COME IN TWO CONFIGURATIONS: "SELF-FLASHING" (DIRECT MOUNTED) AS SHOWN ON THE DETAILS ON THIS PAGE, AND CURB MOUNTED. SEE CONFIGURATION DESCRIPTIONS/DETAILS ON THE FOLLOWING PAGES.
3. SEE MANUFACTURER DRAWINGS / CONTACT MANUFACTURER FOR FURTHER MODEL NUMBER AND UNIT CONSTRUCTION INFORMATION.
4. **SOLAR PANELS SHALL BE IN THE FULLY RETRACTED AND SECURED POSITION PRIOR TO ANY NAMED STORM OR SIMILAR HIGH-WIND EVENT. (SEE DETAILS 1-2 ON THIS PAGE).**



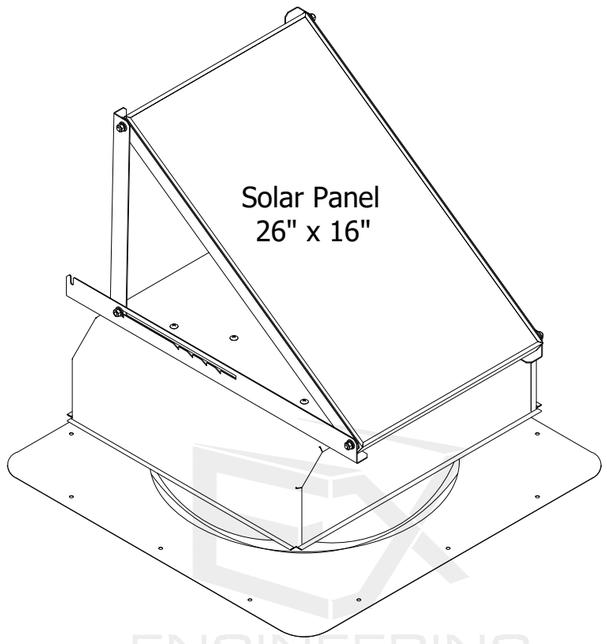
1/02 SOLAR PANEL SIZE 20" x 16" FAN MODELS (SOLAR PANEL RETRACTED)
NOT TO SCALE — ISOMETRIC VIEW



2/02 SOLAR PANEL SIZE 26" x 16" MODELS (SOLAR PANEL RETRACTED)
NOT TO SCALE — ISOMETRIC VIEW



3/02 SOLAR PANEL SIZE 20" x 16" MODELS (SOLAR PANEL FULLY EXTENDED)
NOT TO SCALE — ISOMETRIC VIEW



4/02 SOLAR PANEL SIZE 26" x 16" MODELS (SOLAR PANEL FULLY EXTENDED)
NOT TO SCALE — ISOMETRIC VIEW

RICHARD NEET, P.E.
PE# 86488 CA# 9885

RICHARD NEET LICENSE No. P.E. 86488 STATE OF FLORIDA PROFESSIONAL ENGINEER
02/06/2025

JANUARY 22, 2025

FL

FL 47212.1

ENGINEERING EXPRESS®
POSTAL ADDRESS:
2234 NORTH FEDERAL HWY # 7664
BOCA RATON, FL 33431
ENGINEERINGEXPRESS.COM

ATTIC BREEZE
1370 FM 116
GATESVILLE, TX 76528
(254) 865-9999

ROOFTOP FANS WITH ATTACHED SOLAR PANELS
FLORIDA BUILDING CODE EIGHTH EDITION (2023)
FLORIDA STATEWIDE APPROVAL (FSA FL#XXXX.X)

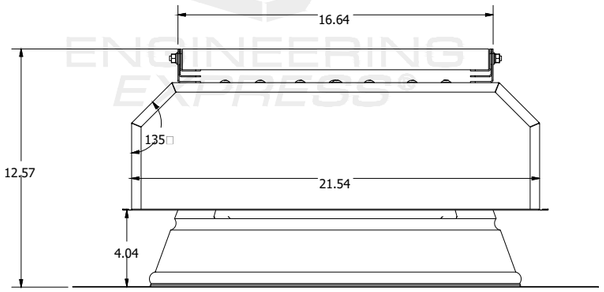
REMARKS	DRWN	CHKD	DATE
INIT ISSUE	EPR	RWN	12/19/24

24-74171

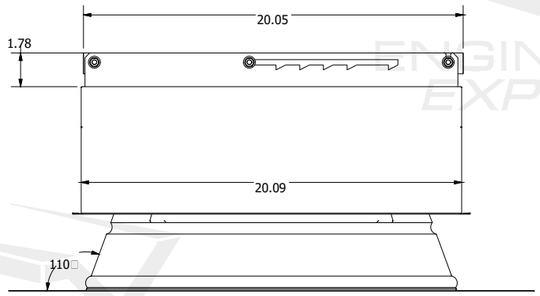
SCALE: NTS UNLESS NOTED

02 OF 6

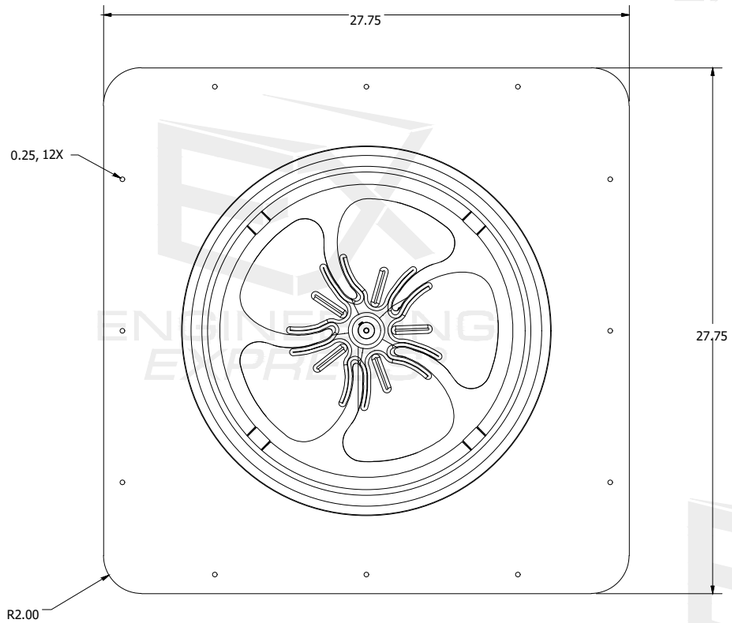
SELF-FLASHING (DIRECT MOUNT)
BOTTOM PANEL CONFIGURATION



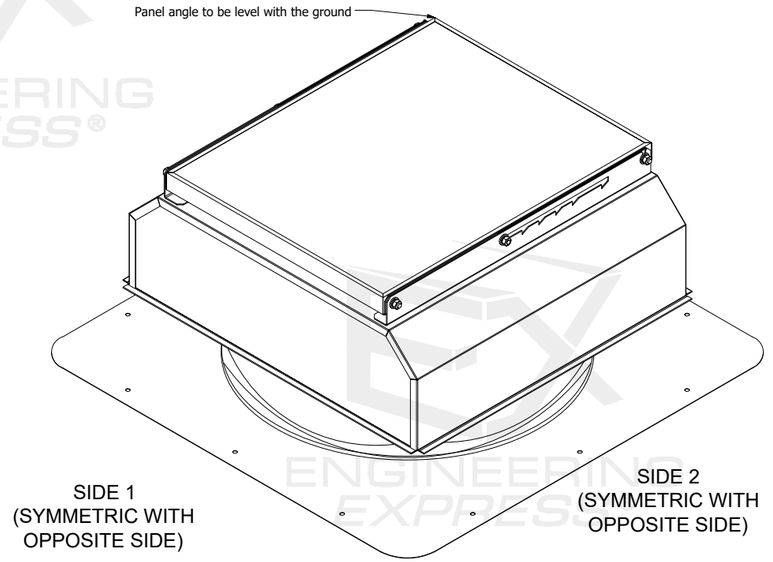
1/03 FAN ASSEMBLY
NOT TO SCALE ELEV. VIEW (SIDE 1)



2/03 FAN ASSEMBLY
NOT TO SCALE ELEV. VIEW (SIDE 2)



4/03 FAN ASSEMBLY WITH
SELF-FLASHING BOTTOM PANEL
NOT TO SCALE BOTTOM VIEW



3/03 FAN ASSEMBLY WITH
SELF-FLASHING BOTTOM PANEL
NOT TO SCALE ISOMETRIC VIEW

RICHARD NEET, P.E.
PE# 86488 CA# 9885

RICHARD NEET LICENSE No. P.E. 86488 STATE OF FLORIDA PROFESSIONAL ENGINEER
02/06/2025

JANUARY 22, 2025

FL

FL 47212.1

ENGINEERING EXPRESS®
POSTAL ADDRESS:
2234 NORTH FEDERAL HWY # 7664
BOCA RATON, FL 33431
ENGINEERINGEXPRESS.COM

ATTIC BREEZE
1370 FM 116
GATESVILLE, TX 76528
(254) 865-9999

ROOFTOP FANS WITH ATTACHED SOLAR PANELS
FLORIDA BUILDING CODE EIGHTH EDITION (2023)
FLORIDA STATEWIDE APPROVAL (FSA FL#XXXXX.X)

REMARKS	DRWN	CHKD	DATE
INIT ISSUE	EPR	RWN	12/19/24

24-74171

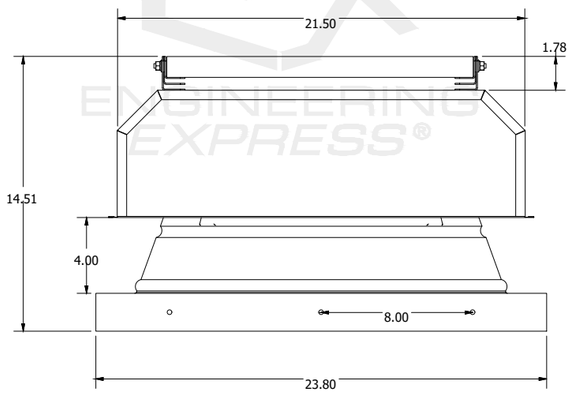
SCALE: NTS UNLESS NOTED

03 OF 6

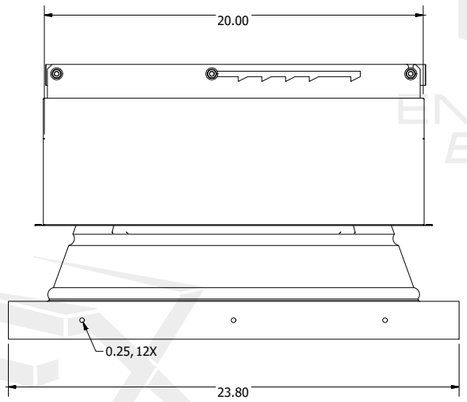
CURB MOUNT BOTTOM PANEL CONFIGURATION

NOTES:

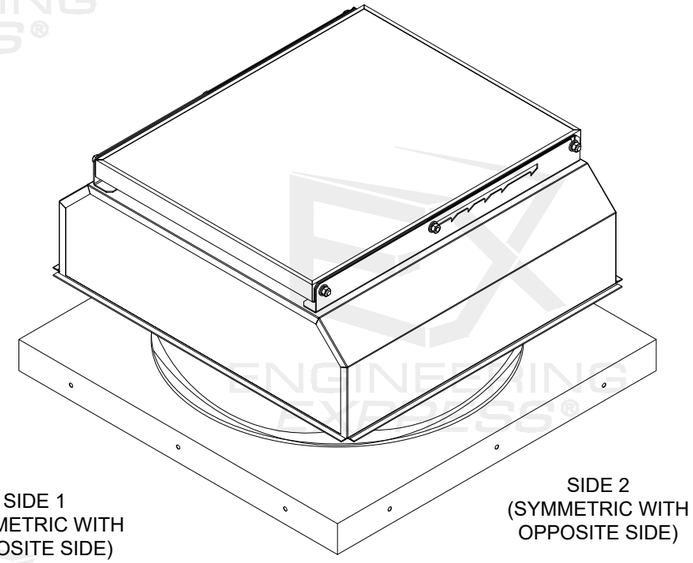
1. THIS PAGE IS INTENDED ONLY TO SHOW THE FAN ASSEMBLY WITH THE DIFFERENT BOTTOM PANEL FOR MOUNTING THE FAN TO THE CURB. THE CURB IS NOT PICTURED ON THIS PAGE. SEE NEXT PAGE.



1/04 FAN ASSEMBLY
NOT TO SCALE ELEV. VIEW (SIDE 1)



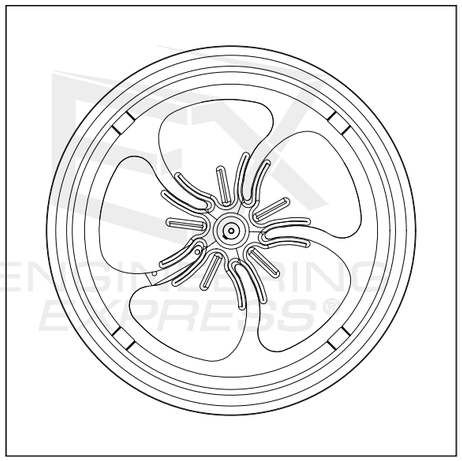
2/04 FAN ASSEMBLY
NOT TO SCALE ELEV. VIEW (SIDE 2)



SIDE 1
(SYMMETRIC WITH OPPOSITE SIDE)

SIDE 2
(SYMMETRIC WITH OPPOSITE SIDE)

3/04 FAN ASSEMBLY WITH CURB MOUNT BOTTOM PANEL
NOT TO SCALE ISOMETRIC VIEW



4/04 FAN ASSEMBLY WITH CURB MOUNT BOTTOM PANEL
NOT TO SCALE BOTTOM VIEW

RICHARD NEET, P.E.
PE# 86488 CA# 9885

RICHARD NEET LICENSE No. P.E. 86488 STATE OF FLORIDA PROFESSIONAL ENGINEER

02/06/2025

JANUARY 22, 2025

FL

FL 47212.1

ENGINEERING EXPRESS®
POSTAL ADDRESS:
2234 NORTH FEDERAL HWY # 7664
BOCA RATON, FL 33431
ENGINEERINGEXPRESS.COM

ATTIC BREEZE
1370 FM 116
GATESVILLE, TX 76528
(254) 865-9999

ROOFTOP FANS WITH ATTACHED SOLAR PANELS
FLORIDA BUILDING CODE EIGHTH EDITION (2023)
FLORIDA STATEWIDE APPROVAL (FSA FL#XXXXX.X)

REMARKS	DRWN	CHKD	DATE
INIT ISSUE	EPR	RWN	12/19/24

24-74171

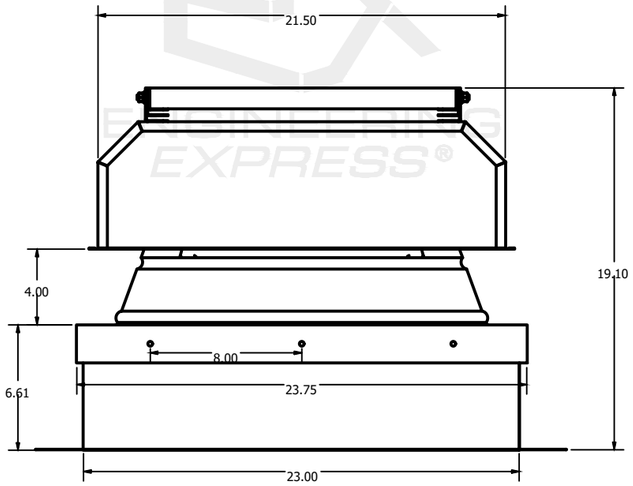
SCALE: NTS UNLESS NOTED

04 OF 6

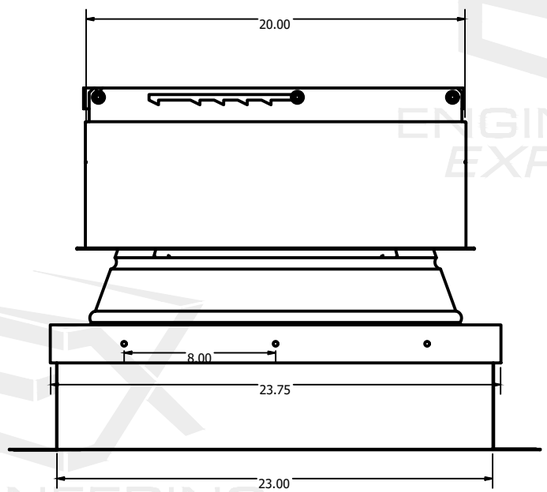
FAN ON CURB DETAILS

FAN ON CURB NOTES:

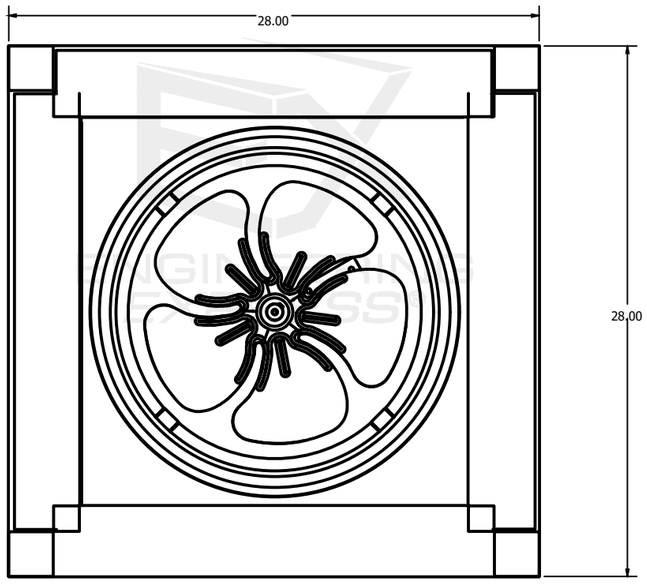
1. CURB SHALL BE PROVIDED BY ATTIC BREEZE AND IS 22 GA. (0.027) GALVALUME GALV. STEEL. (SEE NOTES PAGE 1).
2. SEE MANUFACTURER DRAWINGS / CONTACT MANUFACTURER FOR FURTHER UNIT/CURB CONSTRUCTION INFORMATION.
3. SEE NEXT PAGE FOR FAN-TO-CURB ATTACHMENT SPECIFICATIONS.



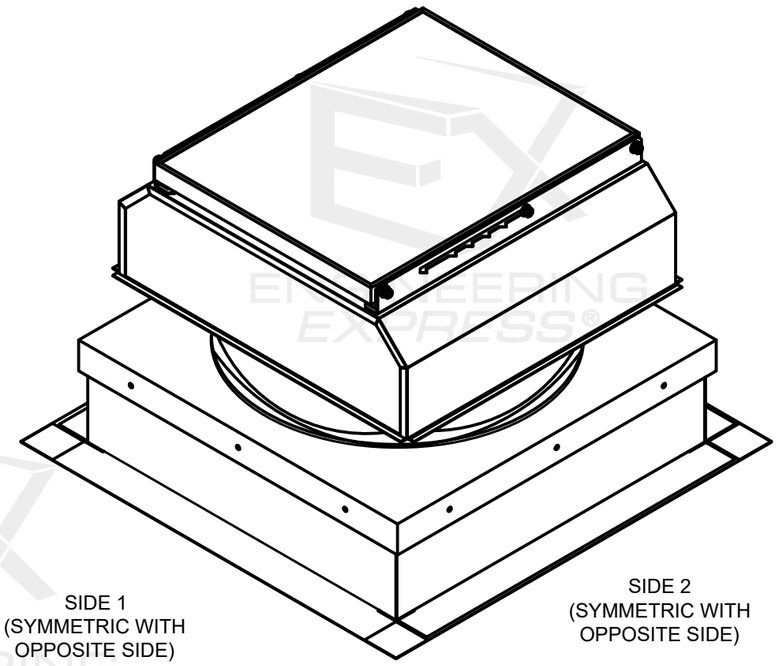
1/05 FAN ASSEMBLY W/ CURB MOUNT BOTTOM PANEL ON CURB
NOT TO SCALE — ELEV. VIEW (SIDE 1)



2/05 FAN ASSEMBLY W/ CURB MOUNT BOTTOM PANEL ON CURB
NOT TO SCALE — ELEV. VIEW (SIDE 2)



4/05 FAN ASSEMBLY W/ CURB MOUNT BOTTOM PANEL ON CURB
NOT TO SCALE — ISOMETRIC VIEW



3/05 FAN ASSEMBLY W/ CURB MOUNT BOTTOM PANEL ON CURB
NOT TO SCALE — ISOMETRIC VIEW

RICHARD NEET, P.E.
PE# 86488 CA# 9885

RICHARD NEET LICENSE No. P.E. 86488 STATE OF FLORIDA PROFESSIONAL ENGINEER
02/06/2025

JANUARY 22, 2025

FL

FL 47212.1

ENGINEERING EXPRESS®
POSTAL ADDRESS:
2234 NORTH FEDERAL HWY # 7664
BOCA RATON, FL 33431
ENGINEERINGEXPRESS.COM

ATTIC BREEZE
1370 FM 116
GATESVILLE, TX 76528
(254) 865-9999

ROOFTOP FANS WITH ATTACHED SOLAR PANELS
FLORIDA BUILDING CODE EIGHTH EDITION (2023)
FLORIDA STATEWIDE APPROVAL (FSA FL#XXXX.X)

REMARKS	DRWN	CHKD	DATE
INIT ISSUE	EPR	RWN	12/19/24

24-74171

SCALE: NTS UNLESS NOTED

05 OF 6

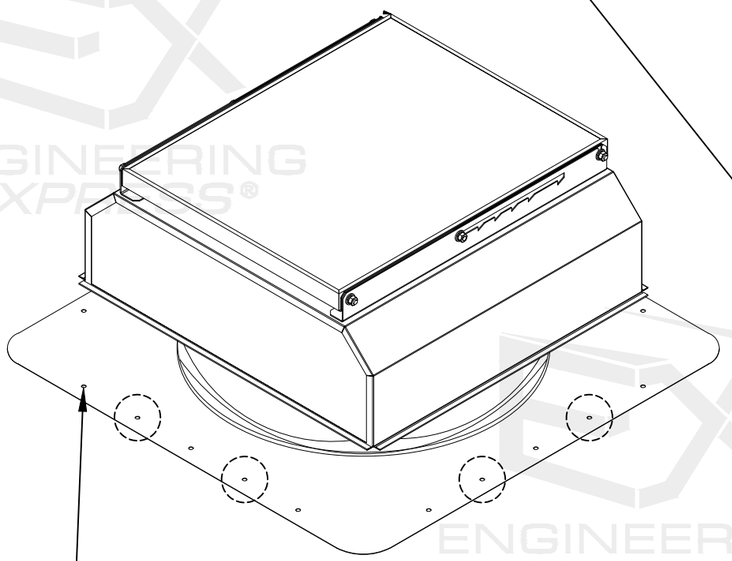
ANCHOR SCHEDULE

ANCHOR SCHEDULE	
HOST SUBSTRATE BY OTHERS	ANCHOR TO HOST SUBSTRATE SPECIFICATIONS
3/8" MIN. THICK PLYWOOD, ALL GRADES (G = 0.42 MIN.) OR 3/8" MIN. THICK ORIENTED STRAND BOARD (OSB), (G = 0.50 MIN.)	#10 WOOD SCREW WITH FULL THREAD PENETRATION THROUGH THE WOOD STRUCTURAL PANEL (WSP) AND 3" MIN. EDGE/END DISTANCE TO ALL EDGES OF THE WSP, TYP. ENSURE THAT THE WOOD SCREW USED PROVIDES A FULLY-THREADED SECTION OF THE SCREW SHANK THROUGHOUT THE THICKNESS OF THE WSP ONCE INSTALLED FOR MAXIMUM THREAD ENGAGEMENT.
22 GA. (0.027") MIN. THICK, YS = 33 ksi MIN. & UTS = 45 ksi MIN. STEEL DECK	#10 (0.190") Ø SAE GR. 2 OR SS SHEET METAL SCREW WITH 3/4" MIN. EDGE DISTANCE TO EDGES OF MEMBERS IN CONTACT, TYP.

ANCHOR SCHEDULE NOTES:

1. ANCHORS SHALL BE PER THE ANCHOR SCHEDULE AND SPECIFICATIONS HEREIN.
2. POSITION ANCHORS EQUALLY SPACED ALONG EACH SIDE AS MUCH AS IS FEASIBLE UNLESS NOTED OTHERWISE. UTILIZE PRE-DRILLED HOLE LOCATIONS IF APPLICABLE.
3. WOOD STRUCTURAL PANEL (WSP) MAY REFER TO PLYWOOD OR OSB AS IS APPLICABLE. SEE HOST REQUIREMENTS ABOVE.
4. THE ATTIC BREEZE CURB SHOWN HEREIN IS QUALIFIED BY THIS EVALUATION.
5. OTHER CURBS MAY BE USED WITH THE CURB-MOUNTED FANS SHOWN HEREIN, BUT SUCH CURBS, CURB CONNECTIONS, AND CURB ATTACHMENT TO THE HOST STRUCTURE SHALL BE PER SEPARATE ENGINEERING. (INTEGRITY OF THE ATTIC BREEZE FAN ITSELF IS STILL QUALIFIED BY THIS EVALUATION AS SPECIFIED HEREIN).

ATTIC BREEZE CURB PER THE SPECIFICATIONS HEREIN



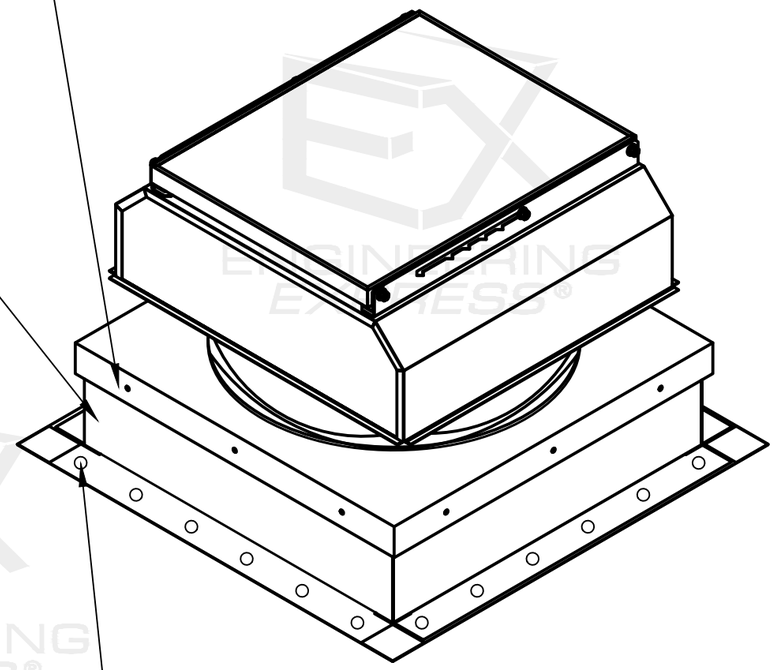
FAN CONNECTION TO HOST STRUCTURE:

UP TO ± 85 psf ASD WIND PRESSURES:
PROVIDE (12) ANCHORS, (3) PER SIDE, TYP. UTILIZE THE PRE-DRILLED HOLE LOCATIONS (NOT CIRCLED).

± 85 - 125 psf ASD WIND PRESSURES:
PROVIDE (20) ANCHORS, (5) PER SIDE, TYP.
UTILIZE THE PRE-DRILLED HOLE LOCATIONS (NOT CIRCLED) AND ADD (2) HOLE LOCATIONS PER SIDE AS SHOWN CIRCLED, ON-CENTER BETWEEN EXISTING HOLE LOCATIONS.

1/06 FAN W/ SELF-FLASHING BOTTOM: ANCHOR DIRECTIVE
NOT TO SCALE ISOMETRIC VIEW

CURB TOP CONNECTION TO FAN:
PROVIDE (12) #10 (0.190") Ø, SAE GR. 2 MIN. OR SS SMS, (3) PER SIDE, AT THE PRE-DRILLED HOLE LOCATIONS AS SHOWN. PROVIDE 3/4" MIN. EDGE DISTANCE TO EDGES OF FAN PANEL & CURB, TYP.



CURB BOTTOM CONNECTION TO HOST STRUCTURE:

FOR ALL ANCHORS: POSITION ALL ANCHORS ALONG THE CENTERLINE OF THE CURB FLANGES, EQUALLY SPACED AS MUCH AS IS FEASIBLE.

UP TO ± 85 psf ASD WIND PRESSURES:
PROVIDE (16) ANCHORS, (4) PER SIDE, TYP.

± 85 - 125 psf ASD WIND PRESSURES:
PROVIDE (24) ANCHORS, (6) PER SIDE, TYP.

2/06 CURB-MOUNTED FAN W/ CURB ANCHOR DIRECTIVE
NOT TO SCALE ISOMETRIC VIEW

RICHARD NEET, P.E.
PE# 86488 CA# 9885

RICHARD NEET LICENSE No. P.E. 86488 STATE OF FLORIDA PROFESSIONAL ENGINEER
02/06/2025

JANUARY 22, 2025

FL

FL 47212.1

ENGINEERING EXPRESS®
POSTAL ADDRESS:
2234 NORTH FEDERAL HWY # 7664
BOCA RATON, FL 33431
ENGINEERINGEXPRESS.COM

ATTIC BREEZE
1370 FM 116
GATESVILLE, TX 76528
(254) 865-9999

ROOFTOP FANS WITH ATTACHED SOLAR PANELS
FLORIDA BUILDING CODE EIGHTH EDITION (2023)
FLORIDA STATEWIDE APPROVAL (FSA FL#XXXX.X)

REMARKS	DRWN	CHKD	DATE
INIT ISSUE	EPR	RWN	12/19/24

24-74171

SCALE: NTS UNLESS NOTED

06 OF 6