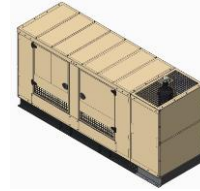


Florida Statewide Product Approval (FSA) # FL 46879.2
Engineering Express Project # 26-101959
THIS DOCUMENT CONTAINS (5) PAGES.**EVALUATION SUBJECT: KG80-125 SOUND ALUMINUM ENCLOSURE****FL # 46879.2****REPORT HOLDER:**DISCOVERY ENERGY, LLC.
200 TWIN OAKS ROAD
KOHLER, WI 53044, USA**SCOPE OF EVALUATION (compliance with the following codes):**

THIS IS A STRUCTURAL (WIND) 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.

This Product Evaluation Report is being issued in accordance with the requirements of the **Florida Building Code Ninth Edition (2026)** per ASCE 7, FBC Building Ch. 16, FBC Building Sections 104.11 & 1522.2, FBC Existing Building Sections 707.1 & 707.2, FBC Mechanical 301.15, FBC Residential M1202.1 & M1301.1, FS 471.025. The product noted in this report has been tested and/or evaluated as summarized herein.

This Performance Evaluation Report is also in accordance with the requirements of the Florida Department of Business and Professional Regulation (Florida Building Commission) Rule Chapter 61G20-3.005 F.A.C., for statewide acceptance per Method 1 (d). Re-evaluation of the product shall be required following the pertinent Florida Building Code or ASCE Standard modifications or revisions. The product noted in this report has been tested and/or evaluated as summarized herein

SUBSTANTIATING DATA:**• Product Evaluation Documents**

Substantiating documentation has been submitted to provide this performance evaluation and is summarized in the sections below.

• Structural Engineering Calculations

Structural engineering calculations have been prepared which evaluate the product based on comparative and/or rational analysis to qualify the following design criteria:

- Max. allowable lateral & uplift wind pressures certified herein
- Unit panel wind pressure connection integrity
- Unit integrity via Finite Element Analysis on unit framing/housing.

Calculation summary is included in this performance evaluation and appears herein.

LIMITATIONS & CONDITIONS OF USE:

Use of the product(s) listed herein shall be in strict accordance with this Performance Evaluation as noted herein and manufacturer-provided model specifications. Installation shall conform to the minimum standards stated in the referenced building code(s) in addition to the specifications and limitations stated herein. See herein for complete limitations & conditions of use.

OPTIONS:

This evaluation is valid for the models described herein. The critical unit designs have been determined and used in this evaluation. Any structural changes outside of the design as described herein would void this certification.

UNIT CASING MATERIALS:

1/8" Al 5052-H32 top panel. 1/8" Al 5052-H32 for side panels and 1/4" steel ASTM A36 for bottom skids, secured with 3/16" pop rivets SS grade 51, Machine screws M6 class 4.8, 1/4" Low Carbon drill screw and M8-M10 bolts Class 8.8 (see Dimensional Print for specific locations). Contact Report Holder for further unit construction information.

TERMINOLOGY:

See herein for definitions of abbreviations used in this report.

NOTE: THE GRAPHICAL DEPICTIONS IN THIS REPORT ARE FOR ILLUSTRATIVE PURPOSES ONLY AND MAY DIFFER IN APPEARANCE.

STRUCTURAL PERFORMANCE:

Models referenced herein are subject to the following design limitations:

Maximum-Rated ASD Wind Pressures*:
± 65 psf Lateral, 65 psf Uplift

Maximum ASD pressure rating based on the design parameters of:
Vult = 200 mph, Exposure D, flat terrain, at grade,
"Other Structures" wind method (ASCE 7 29.4)

- Required design wind pressures shall be determined on site-specific basis in accordance with ASCE 7 and applicable sections of the building code(s) being referenced in accordance with ASD methodology.
- Required design wind pressures shall be less than or equal to the maximum pressures listed herein.
- *Maximum-Rated ASD Wind Pressures indicate the maximum pressures that all units listed herein are approved for. Valid for at-grade applications. See limitations herein.
- Valid for use inside and outside the High-Velocity Hurricane Zone (HVHZ).
- Site-specific wind analysis may produce alternate limitations provided that the maximum-rated wind pressures stated herein are not exceeded.

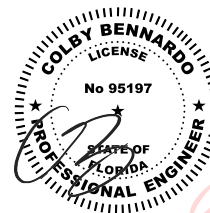
VISIT [ECALC.IO/REHLKO](https://ecalculator.io/rehiko)

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Engineer Signature & Seal



Digitally signed by
Colby Bennardo
Date: 2026.08.17
11:16:50 -04'00'

August 15, 2026

Colby Bennardo, P.E.

ENGINEERING EXPRESS®

FL PE #95197 FLCA #9885

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EVALUATION SUMMARY

Engineering Express has reviewed the design requirements per the Florida Building Code Ninth Edition (2026) and ASCE 7 for the structural integrity of the above-referenced Rehiko sound aluminum housing unit with steel skid to withstand the maximum uniform static wind pressures stated herein. The analysis forming the basis of this certification includes the unit framing and housing only and requires that a permanent near-grade (non-rooftop) attachment to a concrete, metal, or wood host structure as certified/verified by others. Steel skid tie-down anchor locations shall conform to those illustrated on page 3 of this Performance Evaluation. Additionally, the unit shall not be installed in a location susceptible to channeling effects from upwind obstacles. It shall be the installer's responsibility to ensure that the criteria for the unit housing integrity, as listed above, is applicable for use at the location of installation, the mounting method meets or exceeds the requirements of the local code and is approved by the appropriate local authority before installation.

This certification is intended to certify the structural capacity and integrity of the structural framing members, wall and roof sheet metal skins, generator skid, and internal structural connections only for the sound aluminum enclosure listed herein to resist the stated maximum uniform static wind pressures. Design of the generator itself, mechanical designs, energy/electrical criteria, generator slab support, anchorage and tie-down method accompanying components, and all non-structural items shall be verified by others and are outside the scope of this certification. Upon analysis of the aluminum housing unit vs. the critical design loads illustrated below and supplemental FEA provided to this office and described below, this engineer has concluded that the aluminum housing enclosure provides adequate resistance to the stated maximum uniform static wind pressures.

STRUCTURAL ENGINEERING CALCULATIONS

Structural engineering calculations have been prepared which evaluate the aluminum unit housing based on rational and comparative analysis using Finite Element Analysis to qualify the following design criteria:

- 1. Maximum allowable (ASD) design pressures as a result of the aforementioned design criteria:

Load Case 1

(Wind parallel to long side)

Allowable (ASD) Wind Pressures in PSF						
Load Case	Wind Direction	Rear Wall	Front Wall	Left Wall	Right Wall	Roof
1		61.26 (2.933)	-48.85 (-2.339)	-48.85 (-2.339)	-47.30 (-2.265)	-96.92 (-4.641)

Load Case 2

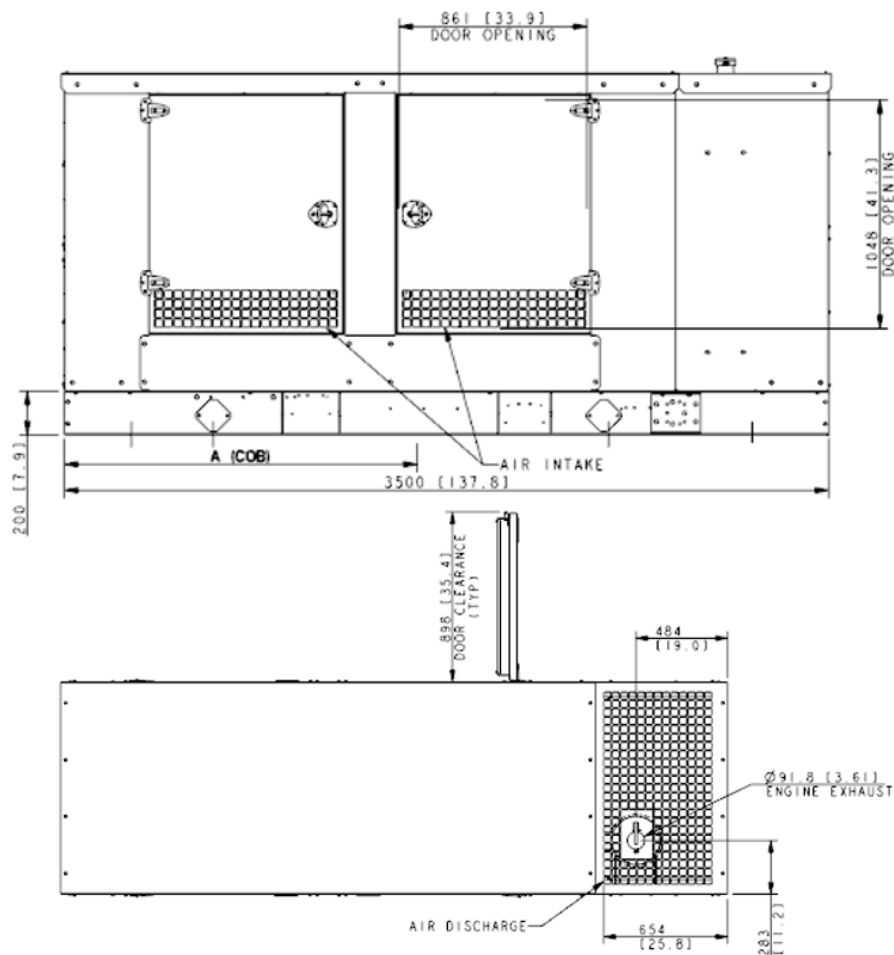
(Wind perpendicular to long side)

Allowable (ASD) Wind Pressures in PSF						
Load Case	Wind Direction	Rear Wall	Front Wall	Left Wall	Right Wall	Roof
2		-48.85 (-2.339)	-48.85 (-2.339)	61.26 (2.933)	-47.30 (-2.265)	-96.92 (-4.641)

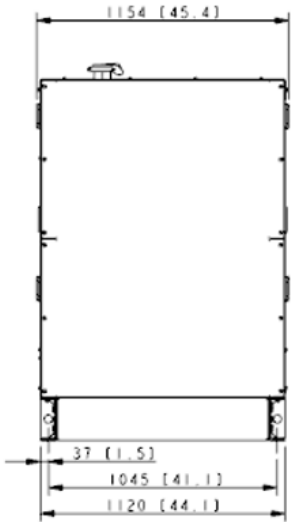
- 2. Maximum housing unit dimensions: 138.80" L x 45.40" W x 65.50" H. For exact enclosure dimensions, see ADV-9083.
- 3. Enclosure materials have been analyzed for yield and ultimate stresses using Von Mises stress criteria in accordance with the current editions of the Aluminum Design Manual & AISC Steel Construction Manual. For both load cases, Von Mises Stress stood below ultimate strength; therefore, the sound aluminum enclosure will provide adequate structural capacity to resist wind pressures shown. In addition, supplemental FEA has been provided to this office to evaluate the Front and Left Walls of a similar enclosure to ± 65 psf. Upon thorough review of the results, it is the opinion of this engineer that the results satisfactorily indicate via comparative analysis that the enclosure and structural components described herein remain below their respective ultimate tensile stresses and thus, provide adequate resistance to the maximum rated wind pressures stated herein.
- 4. All internal connection capacities, including bolted and welded components, have been checked for applicable tension and shear by applying a unity interaction equation where applicable and have been approved by this office.

All installation work shall follow the minimum requirements of the Florida Building Code Ninth Edition (2026) in addition to any additional site-specific requirements for tie-down certification which is not included in this report. Except as expressly provided herein, no additional affirmations are intended. Thank you for your attention to this matter.

DIMENSIONS & ELEVATIONS

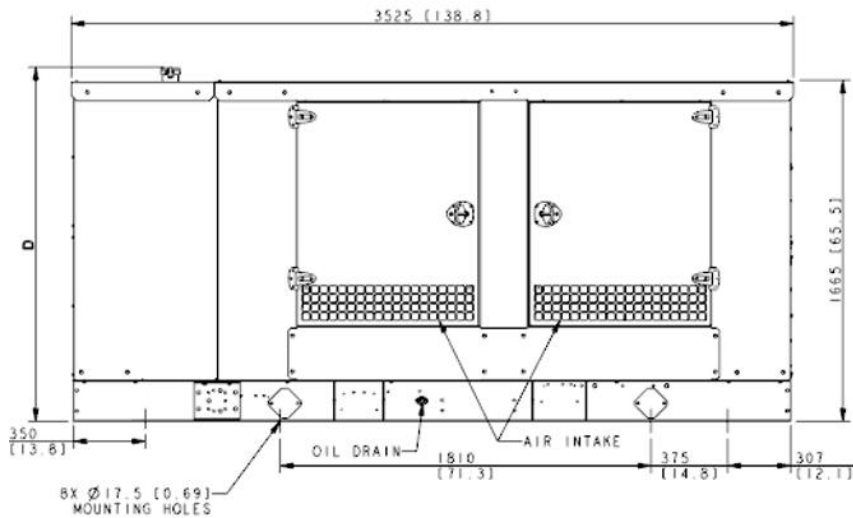


DIM (MM)	80	100	100/125
A (COB)	1615	1651	1598



Note:
Enclosure housing must bear the official insignia of Rehlko with model name referenced above for applicability and validity of this Performance Evaluation.

ANCHOR LOCATIONS



Note:
All dimensions shown on this page are in the format of:
“ X millimeters [Y inches] “

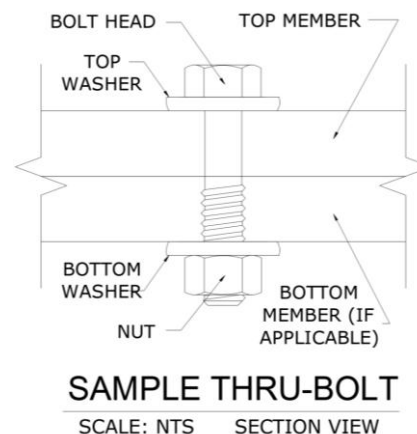
Note:
Anchors are to be calculated and certified separately. (8) mounting holes total, (4) per long side (i.e. Left/Right Walls). Mounting hole locations are per manufacturer (see respective enclosure ADV).

ENCLOSURE MODELS INCLUDED

Generator	Enclosure Type	Enclosure Drawing Number / File	Revision & Date	Dimensional Print	Revision & Date
KG80	KG80 Sound Aluminum Enclosure	GM105582-KA3	Revision D 03/04/25	ADV-9083	Revision D 03/05/26
KG80	KG80 Sound Aluminum Enclosure with Catalyst	GM113872-KA3	Revision B 04/01/25		
KG80A	Sound Enclosure, Aluminum, 80kW* *Same as KG80 offerings listed above, except with modified internal rear intake ducts (permitted change by Engineering Express).	11401123847-KA1	Rev – 12/21/23		
KG80A		11401123847-KA2	Rev – 12/21/23		
KG80A		11401123847-KA3	Rev – 12/21/23		
KG80A		11401123847-KA4	Rev – 12/21/23		
KG100 KG125	KG100-125 Sound Aluminum Enclosure	GM104103-KA3	Revision D 07/24/20		

TERMINOLOGY

The following abbreviations may appear in this report: "Addtl." for "additional", "AHJ" for "Authority Having Jurisdiction", "alum" for "aluminum", "ASCE" for "American Society of Civil Engineers", "ASD" for "Allowable Stress Design", "ASTM" for "American Society for Testing and Materials", "EA" for "each", "E.D." for "edge distance", "EDDS" for "extra deep drawing steel", "e.g." for "*exempli gratia*" or "for example", "equiv." for "equivalent", "FBC" for "Florida Building Code", "FEA" for "Finite Element Analysis", "FLCA" for "Florida Certificate of Authorization", "FS" for "Florida Statutes", "Fu" for "ultimate tensile strength" or "ultimate tensile stress", "Fy" for "yield strength" or "yield stress", "GA" for "gauge", "GR." or "Gr." for "grade", "HVAC" for "heating, ventilation, and air conditioning", "HVHZ" for "High-Velocity Hurricane Zone", "i.e." for "*id est*" or "in other words", "in" for "inch", "lb" for "pound (force)", "max." for "maximum", "min." for "minimum", "mm" for "millimeter", "NTS" for "not to scale", "O.C." for "on center", "OD" for "outer diameter", "pcf" for "pounds (force) per cubic foot", "PE" for "Professional Engineer", "qty" for "quantity", "SAE" for "Society of Automotive Engineering", "SMS" for "sheet metal screws", "SS" for "stainless steel", "TER" for "Technical Evaluation Report", "typ." for "typical", "ult" for "ultimate loads", "U.N.O." for "unless noted otherwise", "UTS" for "ultimate tensile strength" or "ultimate tensile stress", "WLL" for "working load limit", "w/o" for "without", "YS" for "yield strength" or "yield stress", "#" for "number", "&" for "and", and "Ø" for "diameter". Please visit ecalx.io/glossary for additional abbreviation clarifications.



Note: The term "Thru-Bolt" or through bolt, if used herein, refers to a bolt passing through the member(s) in contact and is fastened by a nut at the end opposite the screw head. Nut shall be equivalent to or exceed the strength of the bolt U.N.O. Nut shall be sized to accommodate the same nominal diameter as the bolt U.N.O. See diagram above-right for a sample thru-bolt configuration.

Note: For instances herein which list material specifications as "[material type] or stronger":

U.N.O. herein, the term "stronger" refers to a material with a UTS value equal to or greater than the UTS value of the stated material type. Consult appropriate literature for established material UTS values.

Note: Equivalent steel gauge thicknesses as used in this evaluation, U.N.O., are as follows:

22 GA (.030"), 20 GA (.036"), 18 GA (.048"), 16 GA (.060"), 14 GA (.075"), 12 GA (.098").

LIMITATIONS & CONDITIONS OF USE, CONTINUED

Host Structure: The supporting host structure shall be designed to resist all superimposed loads as determined by others on a site-specific basis as may be required by the Authority Having Jurisdiction. No evaluation is offered for the host supporting structure by use of this document.

Production Drawings: The following drawings shall be accessible if required for a full permit application to be submitted to the Authority Having Jurisdiction in conjunction with this Performance Evaluation:

- Electrical schematic(s)
- Final assembly drawings and parts lists sufficient to detail primary components, operator controls, and their locations
- Complete set of mechanical drawings for all machined parts
- Complete part specifications (including manufacturer's model numbers, size, ratings, etc.) for all purchased parts
- Specification sheets for all parts/components
- Drawings showing all construction details
- Product label drawing(s) showing all required marking information. The label drawing shall show the proposed label location on the equipment and artwork showing the manufacturer's name, address, model and serial numbers, equipment ratings, and warning markings.

Drawing and Change Control: The manufacturer shall establish a system of product configuration control that shall allow no unauthorized changes to the product. Changes to critical documents, identified in this Performance Evaluation, must be reported to, and authorized by, this office prior to implementation for production.

Survivability: Evaluation reports are valid for a newly installed unit and do 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.

Durability: For permanent outdoor installations, all exposed anchors, fasteners, connectors, and metal plates shall be corrosion resistant. Corrosion resistance may be provided by inherent material composition or, where permitted by code, by an approved protective coating or galvanization. Where applicable near a saltwater coastline, such components shall comply with FBC Section 1711, including applicable requirements for exposed, protected, or enclosed conditions. Materials, coatings, and finishes shall be compatible with connected materials, and protective coatings shall be continuous over exposed surfaces. Fasteners used with aluminum members shall also comply with Section J.3.7.2 of the Aluminum Design Manual, "Specification for Aluminum Structures." Substitution of components from alternate manufacturers, or with different materials, coatings, or finishes, shall not be assumed equivalent and may require additional engineering review or site-specific analysis. Components or component assemblies shall not deteriorate, crack, fail, or lose functionality due to galvanic corrosion or weathering. All supporting components that 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.

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.

Proj. #	Remarks	By	Checked	Date	Proj. #	Remarks	By	Checked	Date
18-6258.18	Initial Issue	LAO	LAO	2019	26-101959	2026 FBC Update	BJV/EPR	CCB	08/13/26
20-28203	Catalyst Option, 2020 FBC	EPR	EPR	05/04/21					
23-67580	Update to 2023 FBC	MRT/EPR	EPR/RWN	02/06/24					