# LXL HYDRAULIC SLIDE GATE OPERATOR

## Commercial, Industrial and High Security

Our line of hydraulic slide gate operators are suitable for most applications.

The LXL Gate Operator is a robust system for high cycle applications.

866.467.2773
BBRSS.COM

ROADWAY
ASSA ABLOY

# FEATURES

- More secure than chain-drive units
- Low maintenance, self-contained hydraulic system with minimal wear items
- Environmentally friendly hydraulic oil
- Safe 24VDC controls standard
- Mounting provisions included for 3-loop board and socket type loop detectors
- Drive rail increases rigidity of gate panel
- Continuous duty operation
- Hand release for manual operation
- Built-in maximum run timer and timer to close
- On board 3 button control station
- On board LCD display for programming and diagnostics
- Standard voltages and phases
- Soft start/soft stop, 5002 series
- 24VDC Heater option
- Customer/Tech Support

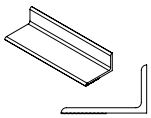
# OPERATORS

| | | |
|---|---|---|
| **CLASS OF OPERATION** | LXL Models | 3001 Series - UL 325 Class I, II, III, IV<br>5002 Series - UL325 Class III, IV |
| **TYPE OF GATE** | Vehicular Slide Gates | |
| **DRIVE SYSTEM** | Hydraulic with Aluminum Drive Rail | |
| **DUTY** | Continuous | |
| **SPEED** | 3001 Series - 1.0 ft. per second<br>5002 Series - 1.0/2.0 ft. per second | |
| **ENTRAPMENT PROTECTION** | Inherent entrapment sensing system (Type A) included | |
| | Provisions for connection of monitored non-contact sensors (Type B1) and monitored contact sensors (Type B2) | |

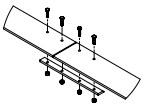
| MODEL | VOLTAGE | PHASE | AMPS | MAX GATE WEIGHT | MAX GATE OPENING | INSTALL CLASS | TRAVEL SPEED | DUTY CYCLE RATING | UNIT WEIGHT |
|---|---|---|---|---|---|---|---|---|---|
| **LXL-3001-1151** | 115 | 1 | 15 | 3000 | Limited by weight | I-IV | 1.0ft/s | Continuous | 250 |
| **LXL-3001-2301** | 208/230 | 1 | 9 | 3000 | Limited by weight | I-IV | 1.0ft/s | Continuous | 250 |
| **LXL-3001-2303** | 208/230 | 3 | 5 | 3000 | Limited by weight | I-IV | 1.0ft/s | Continuous | 250 |
| **LXL-3001-4603** | 460 | 3 | 3 | 3000 | Limited by weight | I-IV | 1.0ft/s | Continuous | 250 |
| **LXL-5002-2301** | 208/230 | 1 | 8 | 5000 | Limited by weight | III-IV | 1.0/2.0 ft/s | Continuous | 260 |
| **LXL-5002-2303** | 208/230 | 3 | 8 | 5000 | Limited by weight | III-IV | 1.0/2.0 ft/s | Continuous | 260 |
| **LXL-5002-4603** | 460 | 3 | 4 | 5000 | Limited by weight | III-IV | 1.0/2.0 ft/s | Continuous | 260 |

***NOTE: Drive Rail (14' length standard; splice with hardware (KLXL-SPLICE), sold separately)***
***Pedestal Riser (12" high, required for Ameristar gates, sold separately)***

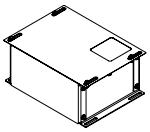
# ACCESSORIES



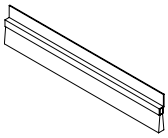
| ITEM NUMBER | DESCRIPTION | SIZE | WEIGHT (LB.) |
|---|---|---|---|
| **DRIVE RAILS** | | | |
| LXL-DRIVERAIL-14 | Drive Rail 2-1/4" x 4" x 14' Aluminum | 14' | 43 |
| *NOTE: Splice Kit must be ordered separately, one (1) per Drive Rail. Drive Rail and limit switch flag plate mounting bolts by installer. Refer to installation manual.* | | | |



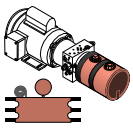
| | | | |
|---|---|---|---|
| **SPLICE KIT** | | | |
| KLXL-SPLICE | Splice Kit, Drive Rail, LXL | 1" X 10" | 1 |
| *NOTE: Fasteners included, one (1) Splice Kit required per Drive Rail* | | | |



| | | | |
|---|---|---|---|
| **RISER PEDESTAL** | | | |
| LXL-3000-12 | Riser 12", LXL Hydraulic Slide Gate Operator | 12" H X 28" W X 20-5/8" D | 82 |
| *NOTE: Fasteners for mounting operator included. Concrete anchors provided by others.* | | | |



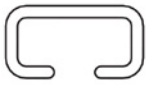
| | | | |
|---|---|---|---|
| **COLD WEATHER PACKAGE** | | | |
| XKIT-LXLSN0W | Snow Scraper Kit, LXL | N/A | 4 |
| XKIT-LXLBRUSH | Brush Kit, LXL | N/A | 2 |
| *NOTE: Includes Fasteners* | | | |



| | | | |
|---|---|---|---|
| **HEATER** | | | |
| XHTR-LXL24VDC45W | Heater Panel 24 VDC 45 Watt | N/A | 4 |
| *NOTE: Includes Hardware, Wire, and Velcro Strapping* | | | |

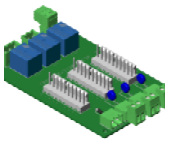
***NOTE: Customer request for other accessories or manufacturers, to be sourced by customer.***

# UL325 ENTRAPMENT PROTECTION DEVICES

| | ITEM NUMBER | DESCRIPTION | SIZE | WEIGHT (LB.) |
|---|---|---|---|---|
| | **GATE EDGE** | | | |
| | XEDGE-ME120-2E-05-T2 | Miller Edge Sensing Edge<br>*Includes ME120-C-5 Channel* | 5' | 5 |
|  | XEDGE-ME120-C-5 | Miller Edge Mounting Channel, Aluminum | 5' | 5 |
| | | All models with a T2 resistive termination | | |
| | XEDGE-RB-G-K10 | Miller Edge Rband Monitored Wireless Gate Transmitter + Receiver | N/A | 5 |
| | XEDGE-RB-TX10 | Miller Edge Monitored Wireless Gate Transmitter | N/A | 2 |
| | XBAT-226-9313 | Miller Edge 3.6V Lithium Battery<br>*Sold by Each* | | .25 |
| | XEDGE-WEL-200K | EMX Monitored Wireless Gate Edge Transmitter + Receiver | | 5 |
| | XEDGE-WEL-200T | EMX Monitored Wireless Gate Edge Transmitter | | 2 |
| | XEDGE-WEL-200R | EMX Monitored Wireless Gate Edge Receiver | | 3 |
| | **PHOTO EYES** | | | |
| | XSEN-IRB-MON2 | EMX Monitored Thru Beam Photo Eye Transmit Receiver w/ Hoods | | 6 |

***NOTE: Customer request for other accessories or manufacturers, to be sourced by customer. UL325 entrapment protection devices sold separately, field installed.***

# ACCESSORIES

| | ITEM NUMBER | DESCRIPTION | SIZE | WEIGHT (LB.) |
|---|---|---|---|---|
| | **VEHICLE LOOP DETECTORS** | | | |
| | XDECT-LMA1200-LV | EDI 1250 11-Pin Loop Detector Low Voltage | 3"H X 1-7/8"W X 3-1/2"D | 1 |
| | XSOCK-11PINOVAL | 11-Pin Oval Loop Detector Socket | N/A | .5 |
| | XDECT-ULT-PLG | EMX Ultra 10-Pin Plug-In Loop Detector Low Voltage | 2-3/4"H X 7/8"W X 2-1/2"D | 1 |
|  | RSSC-XDECT-LD-V2.3 | 3-Function Loop Detector Board for 10-Pin Plug in Detectors | 5-1/2" X 3-1/4" | 1 |

***NOTE: Customer request for other accessories or manufacturers, to be sourced by customer. Detectors, sockets, and loop boards sold separately, field installed.***

# CONSTRUCTION SPECIFICATIONS

## B&B ROADWAY AND SECURITY SOLUTIONS LXL HYDRAULIC SLIDE GATE OPERATOR CONSTRUCTION SPECIFICATION - SECTION 32 31 19

### PART I - GENERAL

#### 1.01 WORK INCLUDED

A. Furnish labor, materials, inspections, supervision, etc., necessary for the complete installation and operation of hydraulic slide gate operator(s) as shown on the plans and specified herein. Work includes furnishing all items and accessories required or necessary for the correct operation of the gate operator system(s) as shown on plans and/or specified herein.

#### 1.02 RELATED WORK

A. Section __ __ __ - Earthwork

B. Section __ __ __ - Concrete

C. Section __ __ __ - Fence

D. Section __ __ __ - Electrical

#### 1.03 QUALITY ASSURANCE

A. Manufacturer: The Company shall specialize in manufacturing of the type of hydraulic gate operators specified, with a minimum ten (10) years experience.

B. The contractor shall provide laborers and supervisors who are thoroughly familiar with the type of construction involved and materials and techniques specified. The installer shall have a minimum three (3) years installation experience of similar equipment.

#### 1.04 REFERENCES

- ASTM B117 - Practice for Operating Salt-Spray (Fog) Apparatus.
- ASTM D523 - Test Method for Specular Gloss. 0020
- ASTM D714 - Test Method for Evaluating Degree of Blistering in Paint.
- ASTM D1654 - Test Method for Evaluation of Painted or Coated Specimens Subjected to Corrosive Environments.
- ASTM D2244 - Test Method for Calculation of Color Differences from Instrumentally Measured Color Coordinates.
- ASTM D2794 - Test Method for Resistance of Organic Coatings to the Effects of Rapid Deformation (Impact).
- ASTM D3359 - Test Method for Measuring Adhesion by Tape Test.
- ASTM F2200 – Standard Specification for Automated Vehicular Gate Construction
- UL325 – Safety Standard for Automatic Gate

#### 1.05 SUBMITTAL

A. The specifications have been compiled to demonstrate the requirement for installation of an access-controlled gate to become part of a comprehensive Access Control System. It is the intent of this specification to serve as the final determining factor as to the suitability of any device or system for use in this application. This specification should be used as a guide with the final responsibility for system design, implementation, and operation resting with the Owner. Exceptions to or deviations from the content of this specification will not be allowed without express written consent of the Owners representative.

B. Submittals shall contain sufficient plans, elevations, sections, and schematics to clearly describe the gate operator installation. All conduit runs, controls and similar drawings shall be included.

C. Submittals shall include (but not limited to) the following:
1. High and low voltage conduit runs.
2. Gate operator mounting pad dimensions and locations.
3. Details of electronic equipment, electrical equipment or any other apparatus deemed necessary by the Owner or Owner's representative.

D. Submit affidavit from manufacturer demonstrating the gate operator has been successfully tested an excess of 250,000 cycles without component failure.

E. The manufacturer's literature shall be submitted prior to installation.

F. Contractor shall provide two (2) copies of submittal packages.

G. Before submitting a proposal, the Contractor shall become familiar with the rules of the governing boards having jurisdiction and shall notify the Owners Representative before submitting a proposal, if in the Contractors opinion, any work or material specified is contrary to such rules. Otherwise, the Contractor is responsible for the approval of all work or material at no extra cost to the Owner, and in case the use of any material specified is not permitted, a substitute shall be approved by the Owners Representative and shall be provided at no extra cost.

H. Work to conform to the latest editions of the following (when applicable):
1. National Electric Code (N.E.C.)
2. National Electrical Manufacturers Association (N.E.M.A.)
3. All other applicable city, state, and national codes
4. UL 325 Underwriters' Laboratories Inc. (U.L.), listings
5. ASTM F2200 American Society for Testing and Materials (A.S.T.M.)
6. Occupational Safety and Health Administration (O.S.H.A.)
7. Illuminating Engineering Society (I.E.S.)
8. Institute of Electrical and Electronic Engineers (I.E.E.E.)
9. United States of America Standards Institute (U.S.A.S.I.)

# CONSTRUCTION SPECIFICATIONS

**1.06 DELIVERY, STORAGE, AND HANDLING**

A. Upon receipt at the job site, all materials shall be checked to ensure that no damage occurred during shipping or handling. Materials shall be stored in such a manner to ensure proper ventilation and drainage, and to protect against damage, weather, vandalism, and theft.

B. Procure all the necessary and usual inspections and certificates for all work to be installed. Deliver same to the Owner/Owner's representative before final acceptance.

**1.07 PRODUCT WARRANTY**

Gate operator shall have a five (5) year limited warranty, based on actual warranty document, against all defects in materials and workmanship. Defective components shall be sent back to the manufacture for replacement component, at no cost to the owner. Freight, labor, and other incidental costs are not considered part of the factory warranty.

**PART II - MATERIALS**

**2.01 MANUFACTURER**

A. All materials shall be new and shall bear the manufacturers name, trade name and the UL/ ETL label in every case where a standard has been established. The equipment is to be furnished under each Section and shall be the standard product of a manufacturer regularly engaged in the production of the required type of equipment. Furnish all accessories, connections, and incidental items necessary to fully complete the work.

**2.02 MATERIAL**

A. The gate controller shall be of rugged, solid-state design, approved for use by a nationally recognized testing laboratory (NRTL) in accordance with the requirements of UL325, latest edition and UL991, latest edition.

B. Specific Requirements to meet UL325
   1. The operator shall include inherent entrapment sensing and monitored external entrapment sensing means per UL325.
   2. The manufacturer shall supply an external audible alarm as part of the control circuitry.

C. Features
   1. Operators shall be designed and manufactured for continuous duty. Operators shall be capable of actuating individual gate panels weighing up to the weight the operator is designed for.
   2. Operator shall move the gate panel using an aluminum drive rail system located between two hydraulically driven floating drive wheels.
   3. AC motor shall be continuous duty rated, totally enclosed and fan cooled.
   4. Limit switches shall be NEMA 4 capacitive proximity limit switches rated for harsh duty.
   5. Hydraulic pump and drive motors shall be equipped with JIC connectors. No quick disconnect fittings shall be allowed.
   6. One (1) disconnect means shall be provided.
   7. Primary drive wheel separator.
   8. Entire operator shall be designed, tested, and listed to the most recent edition of UL 325.
   9. Soft start/soft stop for 5002 series unit.

D. Functional Specifications
   1. Power System 3001 Series
      a. The standard power unit shall be capable of producing a minimum 1 peak horsepower.
      b. The unit shall be made available as 115/208/230 single-phase or 208/230/460 three-phase AC voltage. The motor shall be of the high starting torque, continuous duty, and industrial type, protected against overload by either a thermal or current sensing overload device.
   2. Power System 5002 Series
      a. The standard power unit shall be capable of producing a minimum of 2 peak horsepower.
      b. The unit shall be made available as 208/230 single-phase or 208/230/460 three-phase AC voltage. The power unit shall consist of a variable speed frequency drive with three-phase motor, continuous duty, and industrial type.

E. Hydraulic System
   1. The hydraulic system shall be self-contained and shall consist of the electric motor, pump, reservoir, 3-position 4-way control valve, hydraulic plumbing, two (2) hydraulic drive motors.
   2. Pump shall have full roller bearing construction.
   3. Hydraulic motor shall be self-adjusting for wear compensation.
   4. The hydraulic motor shall withstand an operating pressure of 1800 p.s.i., and continuous torque of 900 inch-pounds.

F. Actuation
   1. The gate panel shall have a drive rail rigidly attached using 3/8" bolts, washers, and nuts. The drive rail shall be constructed of 2.25" x 4" x ¼" aluminum angle.
   2. The drive rail assembly shall be friction fed through the spring-loaded, hydraulically driven drive wheels.
   3. The gate panel travel shall be controlled by proximity type limit switches. Remote sensing devices shall not be required to limit the travel of the gate.
   4. Change of left- or right-hand directional operation of the operator shall be accomplished via software selection, and shall not be accomplished by reversing switches, limit switch connectors or hydraulic hose assemblies.

G. Drive Design
   1. The drive mechanism shall be designed and tested so as to equalize the vertical forces imposed on the drive rail during operations of the gate.
   2. The drive mechanism shall be designed and tested so the drive motor shaft centerline and the corresponding hydraulic motor mounting arm pivot centerline shall be in the same horizontal plane and shall be parallel to the

# CONSTRUCTION SPECIFICATIONS

drive rail, so that the vertical forces generated on the drive rail shall be negated.
3. Hydraulic motor arms shall be constructed from cast aluminum.
4. The drive wheel shall be a 1.5" wide x 6" o.d. polyurethane tread and shall have a durometer hardness of 88.

H. Electrical
1. Gate operator motors shall be available as 115/208/230 VAC single phase or 208/230/460 VAC three phase power.
2. A line voltage disconnect shall be standard.
3. A power supply shall supply the control and safety circuits.
4. A power supply rated at a minimum of 6amp secondary output at 24VDC shall supply the control circuit power.
5. Individual electrical components shall be tested by a nationally recognized testing laboratory (NRTL) and bear the UL / E.TL. label.
6. 24VDC accessory power shall be available for connection of secondary safety devices, loop detectors, etc.
7. All wiring shall terminate using removable terminal strips and shall include an electrical wiring schematic.

I. Logical Controller Module/Interface Board
1. The gate controller interface shall be of rugged design and approved for use by an independent testing laboratory in accordance with the requirements of the most recent edition of UL325 and UL991.
2. The Logic Controller Module/Interface Board shall include a character backlit LCD display and integrated 3 button control station.
3. The controller shall not utilize plug-in type timers and/or relays to accomplish control of the gate system. The controller shall be designed as a Logic Controller Module with Interface Board so that installation and maintenance routines may be centralized at one location for ease of use. All setup and maintenance operations shall be performed on the Logic Controller Module and all input /output terminations shall be made on the Interface Board.
4. All operator programming, setting of parameters and diagnostics shall be performed on the Logic Controller Module, without the use of an external computer or software.
5. The gate controller shall provide the following standard features in a user-selectable programmable format:
   a. Auto-close timer, 0-600 seconds.
   b. Maximum run timer, 0-600 seconds.
   c. Intermediate-open operation.
   d. Right-hand or left-hand operation.
   e. Single, primary/secondary, or interlocking operation.
6. Output relays shall be rated at 10 amps at 230VAC, minimum.
7. The Controller shall be capable of programmable left-hand or right-hand gate operation without the swapping of limit switches or hydraulic hoses.
8. The Controller shall have non-volatile memory to retain time, date, and program data should power be interrupted.
9. The gate controller shall be capable of accepting input from a wide range of additional accessories, including but not limited to: credential required access controls, radio controls, loop detectors, external monitored entrapment protection devices, etc.

J. Operator Chassis/Housing
1. The chassis shall be fabricated from 10-gauge carbon steel. Formed, channel-shaped side plates shall be used to produce a strong configuration without welded corners.
2. The housing shall be fabricated from 18-gauge steel, and when removed, shall allow unrestricted access to hydraulic and electrical components from any side of the operator.
   a. The cover shall be pad lockable.
3. All drilling and welding shall be completed prior to painting.
   a. The finish shall be a high-gloss gray powder coat finish.

K. Emergency Operation
1. Operator shall have either a one-piece manual toggle-style disconnect, or screw drive mechanism, to disengage the drive wheels for manual operation. The operator shall function properly when returned to normal operating conditions without regard to the gate position.

L. Testing
1. Each operator shall be subjected to complete factory testing of all functions after assembly.

**PART III - EXECUTION**

**3.01 PREPARATION**

All new installation shall be laid out by the contractor in accordance with the construction plans.

**3.02 INSTALLATION**

A. Installation shall be performed by certified gate automation installers according to the manufacturer's instructions. Verify all operator locations with contract drawings and manufacturer's installation instructions.

B. Any disagreement between the Plans, Specifications, and Ordinances, must be called to same before signing of the contract. After the Contract has been signed, the Contractor is responsible for having all work meet requirements of the governing ordinances.

# WARRANTY

## LIMITED WARRANTY FOR LXL SERIES HYDRAULIC SLIDE GATE OPERATORS

B&B Roadway and Security Solutions ("BBRSS") warrants that at the time of sale, each BBRSS-branded LXL Series Hydraulic Slide Gate Operators ("LXL Series Product") will, in all material respects, conform to the then-applicable specification for the product and will be substantially free from defects in material and manufacture. The following additional warranties apply to products purchased through BBRSS-authorized channels.

BBRSS warrants that the Product will remain serviceable for five (5) years or 500,000 gate cycles (whichever occurs first) from the date of shipment (FOB). The preceding warranty duration does not apply to the following products or components described below, which have a shorter warranty period:

- Two years from shipment: Hydraulic gate operator drive wheels, and rails/rack.
- Two years from shipment: AC and DC power supplies, chargers.
- One year from shipment: Components subject to normal wear and tear, including but not limited to base, cabinet, and fuses.

BBRSS warrants that replacement parts (whether new or reconditioned) will remain serviceable for One Year from the date that the part was shipped from BBRSS or the remaining period of this Limited Warranty, whichever is longer.

The preceding warranties do not apply when failure or damage is due to improper use or application, abuse or misuse, vandalism, natural disasters/catastrophes, or if products have been altered or modified, subjected to improper storage, improper maintenance, negligence, or used with parts not authorized by the manufacturer including but not limited to: temperature extremes, long term flooding or lack of drainage, packed debris, snow or ice, improper electrical power feed voltage or frequency. This warranty excludes wear, scratches and/or other damage to finishes and painted surfaces due to normal use.

The preceding warranties also do not extend to accessories when those items carry the name plate of a manufacturer other than BBRSS and they are not a part of the base model. BBRSS disclaims all warranties for such accessory components, which carry only the original warranty, if any, of their original manufacturer. BBRSS hereby assigns its rights under such manufacturer warranties — to the extent that such rights are assignable — to Buyer.

For any product that is not purchased through Authorized Channels, these warranties shall not apply.

The above constitutes the complete warranties by BBRSS. No other agreement, written or implied, is valid. BBRSS does not authorize any other person or agent to make any other express warranties. BBRSS neither assumes nor authorizes any other person or agent to assume any other liability in connection with the Product. Any implied warranties, including any warranty of merchantability or warranty of fitness for a particular purpose, are limited in duration to period of the applicable express warranty for the product or component. BBRSS hereby disclaims and excludes all other warranties — including any liability for infringement, and any warranties otherwise arising from course of dealing, course of performance, or usage of trade.

Some jurisdictions do not allow limitations on how long an implied warranty lasts, nor do they allow an exclusion or limitation of incidental or consequential damages; therefore, the limitations and exclusions noted herein may not apply.

BBRSS reserves the right to inspect the material to determine validity of the claim. Upon validation of the claim by BBRSS or its authorized representative, redemption by replacement, renewal or issuance of a pro-rated credit shall be made by BBRSS. If a warranty claim does not meet the warranty criteria, then the Buyer or owner/operator (End User) shall be responsible for reimbursing the manufacturer for service and/or repair costs. This warranty may exclude any on site labor, travel costs to site and/or expenses in performing service or repair on site, for valid warranty claims.

If a BBRSS product fails to conform to the warranties set forth herein, Buyer must notify and order replacement parts within a reasonable time and in no event more than thirty (30) days after the discovery of the nonconformity. BBRSS will investigate and, in the event of a breach, will provide, within a reasonable period of time, one of the following: (1) repair or replacement of any nonconforming products or components or (2) refund of the price upon return of the nonconforming items. BBRSS reserves the right to supply used or reconditioned material for all warranty claims. BBRSS will not be considered to be in breach of or default under this Warranty because of any failure to perform due to conditions beyond its reasonable control, including any force majeure. This warranty does not cover any incidental expenses, including fines or penalties, temporary security, labor, shipping, travel time or standby time that are incurred for inspection or replacement of any nonconforming items. As a condition of warranty coverage, warranty claims must be submitted in accordance with the procedures described on the BBRSS form, "RMA Procedures."

The remedy selected by BBRSS in accordance with this paragraph shall be the exclusive and sole remedy of buyer for any breach of warranty.

BBRSS will not be liable for claims or damages caused by buyer's failure to fulfill its obligations herein. To the full extent permitted under applicable law, BBRSS shall not be liable to buyer or any third party with respect to any product under any contract, negligence, strict liability or other theory for: (a) any claims, actions or causes of action arising out of, under or in connection with any arrangement between buyer and any third party, or any failure of performance, by a third party;

# WARRANTY

Or (b) any indirect, incidental, consequential, exemplary or punitive damages including, but not limited to, lost profits, even if BBRSS is aware of the possibility of such damages or if the remedy fails of its essential purpose.

BBRSS's maximum liability hereunder, regardless of the legal theory, shall not exceed lesser of (i) the contract price of the products BBRSS furnished; or (ii) the aggregate of fees paid to BBRSS for products during the twelve months immediately preceding the date on which the most current event giving rise to such liability occurred.

If any provision of this warranty is found to be invalid or unenforceable, then the remainder shall have full force and effect.

BBRSS shall retain all rights to designs, drawings, patterns, plans, specifications, technology, technical data and information, technical processes, and business methods, whether patentable or not, arising out of or resulting from BBRSS rendering engineering services to and designing systems/products for Buyer's use. Buyer agrees not to enforce against BBRSS or customers of BBRSS any patent rights, the scope of which includes a system, process or business method utilizing products or engineering services delivered hereunder by BBRSS and which relates to an invention, improvement, enhancement, or development made by or for Buyer. Notwithstanding the foregoing, to the extent that any products include, embody or require for its use or sale the intellectual property of BBRSS or any BBRSS affiliate or subcontractor involved with the provision of such products ("Supplier IP"), BBRSS hereby grants Buyer and Buyer's affiliates a non-exclusive, transferable, worldwide, royalty free and irrevocable license to use the Supplier IP in connection with the products provided BBRSS will not furnish the name. Trademark or proprietary indicia of Buyer as a reference, or utilize the name, trademark, or proprietary indicia of Buyer without the prior written approval of Buyer.

This warranty will be interpreted, construed, and enforced in all respects in accordance with the laws of the State of Oklahoma, without reference to its choice of law principles. The U.N. Convention on Contracts for the International Sale of Goods will not apply to this warranty.

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ITEM #: B&B-8 03/2026