Go Blue...Next Level Measurement for your Industry.
Benefits

**Personalized Expert Service**
Our years of expertise in process measurement and control is applied to every call, email, web inquiry, application and task to maximize your satisfaction.

We make it our goal to return every call, email inquiry and request for quote in the same day if possible.

**Fast Processing & Shipment**
Our investment in finished goods inventory, our dedicated staff and our rapid manufacturing is standard on all in stock products; our goal is to ship every order complete in two business days.

**The Next Level**
At BlueLevel Technologies we take serving our customers to the Next Level. No matter what industry you are in, you will get superior service and greater assurance of application engineering and product reliability in bin level indication, level control and level sensing for silo inventory monitoring to improve plant safety, prevent bin over-filling and improve inventory accounting.

**Devices suitable for powder, granular and most other bulk solids in a wide range of industries.**
- Seed, Feed and Grain
- Concrete, Cement & Aggregates
- Chemical Processing
- Plastic Products Manufacturing
- Food Processing
- Energy (Bio and Coal-Fired Power)
- And so many others.

blueleveltechnologies.com
Model RH and RHX Rotary Paddle

**APPLICATIONS**
- Reliable point level detection for bulk solids; powder, granular materials
- High, Low, Intermediate level control
- Plugged chute detection
- For use in bins, silos, hoppers and chutes with process temperatures up to 300°F (149°C)
- Material density from 5lbs/ft³ to over 100lbs/ft³ (consult factory for lower density)
- Plastics, resins, cement, flyash, minerals, sand, gravel, aggregates, grain, seed, feed, chemicals, coal and many more materials
- Ordinary and Hazardous Locations (Use Model RHX where hazardous explosive dust or vapor exists requiring rugged explosionproof aluminum enclosure with powder coat finish. Consult Manual for specific details)

**FEATURES**
- Super bright LED's locally indicate Normal / Alarm status (not available on Model RHX explosion proof enclosure)
- Rugged aluminum enclosure with powder coat finish (FDA Compliant)
- Twist off cover
- Selectable High/Low fail-safe output on power failure
- Four bearing shaft assembly increases reliability and life
- Automatic motor shut-off
- Internal bi-direction clutch protects motor
- DPDT relay
- Removable wiring terminals
- Interchangeable with other brands accessories
- Adjustable sensitivity (if needed)
- Dual conduit entrances

**SPECIFICATION SUMMARY**
- **Power:** 24 / 115 / 230VAC, 50/60Hz, 12/24VDC
- **Output:** DPDT Relay, 8A @250VAC
- **Fail-Safe:** Selectable High/Low on Power Failure
- **Max. Process Temp:** 300°F (149°C)
- **Ambient Temp:** -40°F to +158°F (-40°C to +70°C)
- **Pressure:** 30psi (2bar) max, 1/2 Micron
- **Process Mounting:** 1-1/4” NPT
- **Conduit Entrance:** Two - 3/4” NPT
- **Enclosure Type:** Type 4X, IP65
- **Enclosure Material:** Aluminum, FDA Compliant powder coat finish
- **Shaft Material:** Stainless Steel
- **Seal Material:** Stainless Steel w/ FKM
- **Certifications:** Conforms to CSA/UL 61010-1 (ED.2):2004; CE Mark;
  Conforms to CSA-C22.2 NO. 30-M1986 (R2007) / C22.2 NO. 25-1966 (R2009) and UL 1203 (ED.4), Class I Group C & D, Class II Group E, F & G

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Model RH/RHX HIGH TEMP

**APPLICATIONS**
- Reliable point level detection for bulk solids; powder, granular materials
- High, Low, Intermediate level control
- Plugged chute detection
- Specifically for use in bins, silos, hoppers, chutes with HIGH Process Temperatures > 300°F (149°C)
- Material density from 5lbs/ft³ to over 100lbs/ft³ (consult factory for lower density)
- Resins, cement, flyash, minerals, sand, gravel, aggregates, grain, feed, chemicals, coal and many more materials
- Ordinary and Hazardous Locations

**FEATURES**
- Super bright LED's locally indicate Normal / Alarm status
- Rugged aluminum enclosure with powder coat finish (FDA Compliant)
- Twist off cover
- HIGH TEMP stainless steel extension
- Air purge connection
- Selectable High/Low fail-safe output on power failure
- Four bearing shaft assembly increases reliability and life
- Automatic motor shut-off
- Internal bi-direction clutch protects motor
- DPDT relay
- Removable wiring terminals
- Interchangeable with other brands accessories
- Adjustable sensitivity (if needed)
- Dual conduit entrances

**SPECIFICATION SUMMARY**
- **Power:** 24 / 115 / 230VAC, 50/60Hz, 12/24VDC
- **Output:** DPDT Relay, 8A @250VAC
- **Fail-Safe:** Selectable High/Low on Power Failure
- **Max. Process Temp:** 750°F (399°C) with air purge
- **Ambient Temp:** -40°F to +158°F (-40°C to +70°C)
- **Pressure:** 30psi (2bar) max, 1/2 Micron
- **Process Mounting:** Mounting Plate
- **Conduit Entrance:** Two - 3/4” NPT
- **Enclosure Type:** Type 4X, IP65
- **Enclosure Material:** Aluminum, FDA Compliant powder coat finish
- **Shaft / Air Purge / Component Materials:** Stainless Steel
- **Seal Material:** Graphite / Metal Alloy
- **Certifications:** Conforms to CSA/UL 61010-1(ED.2):2004; CE Mark;
  Conforms to CSA-C22.2 NO. 30-M1986 (R2007) / C22.2 NO. 25-1966 (R2009) and UL 1203 (ED.4), Class I Group C & D, Class II Group E, F & G

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Rotary paddle technology is frequently used as a method for detecting the presence and absence of bulk solid materials due to its “WORKHORSE” DURABILITY.
Model AP/APX

**RF Admittance**

APPLICATIONS

- Reliable point level detection for powder, granular, liquid and slurry materials
- High, low, Intermediate level control
- Plugged chute detection
- Use in bins, silos, hoppers, chutes with process temperatures up to 302°F (150°C)
- Suitable for use where residual material build up on side mounted probes occurs
- Ideal performance for bulk solids with density of 15lbs/ft³ (240kg/m³) and higher
- Food grade materials of construction using stainless steel probe and PTFE insulators
- Standard, mini and cable-extended versions handle a wide range of applications
- Suitable for ordinary and hazardous (pending) locations
- Resins, grains, cement, other powders, chemicals, granular materials and more

FEATURES

- Universal AC/DC power supply
- Large LED indication of Normal/Alarm status
- Simple calibration
- Standard probe (12.8”/326mm insertion length)
- Mini probe version inserts only 2.5” (63mm)
- Cable extended probe available for up to 25’ (7.6m) maximum length
- DPDT relay output
- Selectable High/Low fail-safe on power failure
- Rugged aluminum enclosure with powder coat finish
- Twist off cover
- Removable wiring terminals
- Dual conduit entrances

SPECIFICATION SUMMARY

- **Power:** 20-250VAC/DC, AC is 50/60Hz
- **Sensitivity:** 0.3pF
- **Calibration:** Simple 2-Step Adjustment
- **Output:** DPDT Relay, 5A @240VAC
- **Fail-Safe:** Selectable High/Low on Power Failure
- **Time Delay:** 0-30 seconds, adjustable
- **Max. Process Temp:** Up to 302°F (150°C)
- **Ambient Temp:** -40°F to +176°F (-40°C to +80°C)
- **Maximum Pressure:** 284psi (20bar)
- **Process Mounting:** ¾” NPT Stainless Steel
- **Conduit Entrance:** Two – ¾” NPT
- **Enclosure Type:** Type 4X, IP65
- **Enclosure Materials:** Aluminum, powder coat finish
- **Probe/Connection Materials:** Stainless Steel, PTFE insulators
- **Certifications:** CE Mark

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Model RH/RHX

**Rotary Paddle Accessories**

MOUNTING

- Mounting plates feature 1-1/4“ process connection for mounting Model RH/RHX rotary paddle bin level indicators
- Materials of construction available include powder coated steel and 304 stainless steel
- Half coupling for side mounted installations; Full coupling for top of bin mounted installations

PADDLES

- Insertable folding paddles including 1-vane and 2-vane units for material with bulk density of 25lbs/ft³; 400kg/m² (2-vane) or 40lbs/ft³; 640kg/m³ (1-vane) up to 80lbs/ft³; 1280kg/m³
- Insertable “fixed” paddles including 1-vane “banana” (30-70lbs/ft³; 480-1120kg/m³) and 1-vane heavy duty (45lbs/ft³; 721kg/m³) insert from outside the bin just like the above folding paddles
- Fixed “Standard” paddles including the 3-vane standard paddle (30-70lbs/ft³; 480-1120kg/m³) turning in a 5” diameter, and the 3-vane large paddle (5-30lbs/ft³; 80-480kg/m³) which turns in a 7” diameter
- Fixed “Heavy Duty” paddles include the 1-vane (insertable) for 45lbs/ft³+ (721kg/m³) Materials, 2-vane (45lbs/ft³; 721kg/m³) and 4-vane (45lbs/ft³; 721 kg/m³)

MISCELLANEOUS

- “Standard” shaft coupling for threaded fixed paddles (fits most all brands)
- “Optional shaft coupling for “Bindicator” brand fixed paddles
- Flexible Coupling (attaches directly to shaft of Model RH/RHX unit) for top mounted installations w/ extensions
- Extension shafts made from schedule 40 pipe, galvanized or stainless steel (include coupling for either fixed or folding type paddle) used for top mounted installations when lengthening of the sensing point is required in length from 4-120” (102-3000mm)
- Guard pipe made from schedule 40 galvanized or stainless steel, required when extension shaft is > 24” (610mm) in length

Bindicator is a registered trademark of Venture Measurement Company LLC, Spartanburg, South Carolina.
**Model AP/APX HIGH TEMP**

**RF Admittance**

**APPLICATIONS**
- Reliable point level detection for powder, granular, liquid and slurry materials
- High, Low, Intermediate level control
- Plugged chute detection
- Specifically for use in bins, silos, hoppers, chutes with HIGH process temperatures > 302°F (150°C)
- Suitable for use where residual material build up on side mounted probes occurs
- Ideal performance for bulk solids with density of 15lbs/ft³ (240kg/m³) and higher
- HIGH Temp and SUPER HIGH Temp versions handle internal vessel temperatures up to 842°F (450°C)
- Suitable for use where residual material build up on side mounted probes occurs
- Ideal performance for bulk solids with density of 15lbs/ft³ (240kg/m³) and higher
- HIGH Temp and SUPER HIGH Temp versions handle internal vessel temperatures up to 842°F (450°C)
- Suitable for use in vessels where material contents change
- Plastics, grains, dry free-flowing powders, nuts, cereals, ground plastic, flyash, pills, chemicals, carbon black and more

**FEATURES**
- Universal AC/DC power supply
- Large LED indication of Normal/Alarm status
- Simple calibration
- HIGH Temp probe version, up to 450°F (232°C) with 17.8” (450mm) insertion length
- SUPER HIGH Temp probe version, up to 842°F (450°C) with 22.8” (580mm) insertion length
- DPDT relay output
- Selectable High/Low fail-safe on power failure
- Rugged aluminum enclosure with powder coat finish (FDA Compliant)
- Twist off cover
- Removable wiring terminals
- Dual conduit entrances
- Explosionproof version (pending)

**SPECIFICATION SUMMARY**
- **Power**: 20-255VAC/DC, AC is 50/60Hz
- **Sensitivity**: 0.3pF
- **Calibration**: Simple 2-Step Adjustment
- **Output**: DPDT Relay, 5A @240VAC
- **Fail-Safe**: Selectable High/Low on Power Failure
- **Time Delay**: 0-30 seconds, adjustable
- **Max. Process Temp**: Up to 450°F (232°C)
- **Ambient Temp**: -22°F to +140°F (-30°C to +60°C)
- **Minimum Material Density**: 3.12lbs/ft³ (0.05kg/dm³)
- **Pressure**: 368psi (25bar) max
- **Process Mounting**: 1” NPT and 1-1/4” NPT Stainless Steel
- **Conduit Entrance**: Two – 1/4” NPT
- **Enclosure Type**: Type 4X, IP65
- **Enclosure Materials**: Aluminum, FDA Compliant powder coat finish
- **Probe/Connection Materials**: Stainless Steel, PEEK or Ceramic insulators
- **Certifications**: CE Mark

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**Model VHS**

**Vibrating Rod**

**APPLICATIONS**
- Reliable point level detection for lightweight bulk solids; powder, granular materials
- High, Low, Intermediate level control
- Dust collector back-up protection
- Use in bins, silos, hoppers, chutes
- Ideal for low material density from 3.12lbs/ft³ to over 60lbs/ft³
- Suitable for use in vessels where material contents change
- Plastics, grains, dry free-flowing powders, nuts, cereals, ground plastic, flyash, pills, chemicals, carbon black and more

**FEATURES**
- Rugged “Rod” design, sheds material
- LED indicates Normal / Alarm status
- Universal AC/DC power supply
- No calibration required
- High process temperature unit available
- Solidstate design, no moving parts
- Rugged aluminum enclosure with powder coat finish (FDA Compliant)
- Twist off cover
- Selectable High/Low fail-safe output
- Standard 8.15” (207mm), Pipe extended from 20” (508mm) to 118” (3m), Cable extended from 39” (1m) up to 65’ (20m) and split-architecture versions available
- Removable wiring terminals
- Dual conduit entrances
- Rotatable housing simplifies conduit connection alignment/positioning

**SPECIFICATION SUMMARY**
- **Power**: 20-255VAC/DC, AC is 50/60Hz
- **Output**: SPDT Relay, 8A @250VAC
- **Fail-Safe**: Selectable High/Low on Power Failure
- **Max. Process Temp**: Up to 230°F (110°C); high temp version up to 320°F (160°C)
- **Ambient Temp**: -22°F to +140°F (-30°C to +60°C)
- **Minimum Material Density**: 3.12lbs/ft³ (0.05kg/dm³)
- **Pressure**: 368psi (25bar) max
- **Process Mounting**: 1-1/2” NPT
- **Conduit Entrance**: Two - 3/4” NPT
- **Enclosure Type**: Type 4X, IP65
- **Enclosure Materials**: Aluminum, FDA Compliant powder coat finish
- **Probe/Connection Materials**: Stainless steel
- **Certifications**: CE Mark
**Model VHL MINI**

**Vibrating Fork For Liquids**

**APPLICATIONS**
- Reliable point level detection for wide range of liquids and slurries
- Mini-sized, compact for tight spaces
- High, Low and Intermediate level control
- PLC and Control System input
- Detecting liquid flow in pipes
- Use in a wide variety of tanks and containers of various materials (not limited to metal tanks)
- Unaffected by dielectric, conductivity, pressure and changing fluid characteristics

**FEATURES**
- Polished vibrating fork is standard
- PFA coated or hygienic extreme-polish available
- 2-wire AC or 3-wire DC NPN/PNP solid-state output
- External operational test function
- High process temperature of 266°F (130°C)
- Not affected by material dielectric, conductivity, pressure or other fluid characteristics
- Miniature compact stainless steel housing
- Prewired 3m long cable
- Short (2.7”/69mm long), Standard (4.9”/125mm long), Long (7.9”/200mm long) and Extended (12”-118”/300mm-3,000mm) probe lengths
- IP68 (NEMA 6P) rated enclosure

**SPECIFICATION SUMMARY**
- **Power:** 20-255VAC or 12-55VDC
- **Output:** Solid-state switch
- **Process Density:** ≥ 0.7 S.G. (0.7 g/cm³)
- **Max. Viscosity:** 10,000 cSt (mm²/s)
- **Max. Process Temp:** 266°F (130°C)
- **Ambient Temp:** -22°F to +158°F (-30°C to +70°C)
- **Pressure:** 588psi (40bar) maximum
- **Process Mounting:** 1” NPT, Tri-Clamp
- **Electrical Connection:** Prewired 3m long cable
- **Enclosure Type:** IP 68 (NEMA Type 6P)
- **Enclosure Material:** Stainless Steel
- **Local Indication:** Bi-Color LED (red/green)
- **Probe Material:** 316Ti (DIN 1.4571) Stainless Steel
- **Certifications:** CE Mark

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**VHL Standard is available on a special order basis. Please see website and please call for pricing.**
Model CPH
Capacitive Proximity Switch

APPLICATIONS
- Reliable point level detection and process control PLC input for clean liquids, dry free-flowing powders and granular materials
- High, Low, Intermediate level control
- Ideal where compact sensor and low cost is needed
- Use in bins, silos, hoppers, chutes
- Seed, plastics, grains, dry free-flowing powders, chemicals and more

FEATURES
- AC or DC switches
- Shielded or unshielded designs for flush or invasive mounting
- Solidstate design, no moving parts
- Normally open or normally closed
- Compact 30mm M30 size
- LED indicates sensing condition
- Prewired 2m long cable
- Sensor mounting accessories available

SPECIFICATION SUMMARY
Power:
AC - 20-250VAC, 50/60Hz
DC - 10-30VDC
Sensing Distance: 30mm max.
Output: Solid state
Switch:
AC - Normally open OR closed
DC - Normally open AND closed
Max. Current Switching: Up to 300mA
Operating Temp: -13°F to +158°F (-25°C to +70°C)
Process Mounting: M30 x 1.5
Enclosure Type: IP67
Enclosure Materials: PBT
Certifications: cCSAus Ordinary Locations; CE Mark

Model CPU
Universal Capacitive Proximity Switch

APPLICATIONS
- Reliable point level detection and process control PLC input for clean liquids, dry free-flowing powders and granular materials
- High, Low, Intermediate level control
- Ideal where compact sensor, low cost and power supply flexibility is required or is unknown
- Use in bins, silos, hoppers, chutes
- Seed, plastics, grains, dry free-flowing powders, chemicals and more

FEATURES
- 2-wire universal AC/DC switches
- Shielded or unshielded designs for flush or invasive mounting
- Solidstate design, no moving parts
- Normally open or normally closed
- Compact 30mm M30 size
- LED indicates sensing condition
- Prewired 2m long cable
- Sensor mounting accessories available

SPECIFICATION SUMMARY
Power: 20-250VAC/VDC, 50/60Hz AC
Sensing Distance: 20mm max.
Output: Solid state
Switch: Normally open or closed
Max. Current Switching: Up to 200mA
Operating Temp: -13°F to +158°F (-25°C to +70°C)
Process Mounting: M30 x 1.5
Enclosure Type: IP67
Enclosure Materials: PBT
Certifications: cCSAus Ordinary Locations; CE Mark
**APPLICATIONS**

- Reliable monitoring of the presence or absence of metal objects
- Part or product detection, cam follower, broken tool detection, bottle cap detection and more

**FEATURES**

- Compact 18mm or 30mm sizes (other sizes available)
- AC or DC voltage operation
- Shielded and Unshielded construction available
- Solidstate with no moving parts
- Industry standard sizes
- Quick-disconnect (5m cord sets available) or prewired

**SPECIFICATION SUMMARY**

- **Power:** 20-250VAC; 10-30VDC
- **Sensing Distance:** 5mm (for 18mm unit)
- **Maximum Current Load:** 400mA (18mm AC units), 200mA (18mm DC units)
- **Construction:** Nickel plated, brass body, PBT plastic face
- **Electrical Connection:** M12 quick-disconnect or 2m prewired cable

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**Level Indication – Application Accessories**

**Model RA**

*Bin Aerator*

**APPLICATIONS**

- Promote material flow to eliminate bridging and ratholing, thereby enhancing level control within bins and silos

**FEATURES**

- Naturally promotes material flow - no damage to bin
- Rugged construction, rectangular aerator design
- Cost-effective
- Cotton or Fiberglass diffuser material
- External mounting kit available

**SPECIFICATION SUMMARY**

- **Size:** 3-3/4” x 7-1/2” rectangular
- **Effective Coverage:** 20” diameter
- **Air Supply:** Clean, dry air, 3-5psi
- **Max. Process Temp:** Up to 180°F (82°C)
- **Materials:** Zinc-plated steel body, screens, washers, external mounting kit brackets; cotton or fiberglass diffuser; brass air inlet nipple and jam nut; Buna-N/Neoprene washer and gaskets.

**Model DA**

*Disc Bin Aerator*

**APPLICATIONS**

- Promote material flow to eliminate bridging and ratholing, thereby enhancing level control within bins and silos

**FEATURES**

- 4” round disc installs easily
- Aerates bin wall and gently vibrates
- External mounting kits available for use in rectangular, oval and round cutouts
- No diffuser cloth to clog
- Disc covers air outlets, unlike other air designs

**SPECIFICATION SUMMARY**

- **Disc material:** Blue FDA approved silicone
- **Operating Temp:** -60°F to +350°F (-50°C to +175°C)
- **Effective Coverage:** 20-24” (500-610mm) diameter
- **Size:** 4” diameter
- **Airline Connection:** 1/2” NPT external thread, 1/4”
**Reliable Cost Effective Inventory Monitoring**

**Model WC**  
*Smart Inventory Monitoring Sensor*

**APPLICATIONS**
- Reliable inventory monitoring of powders, granular materials and liquids
- Maximum range of 98ft (30m)
- Ideal where cost-effective and automated inventory sensing is required
- Eliminate manual measurements, increase personnel safety and improve costs
- Use in bins, silos, hoppers
- Plastics, grains, cement, flyash, sand, aggregates, minerals, chemicals and much more

**FEATURES**
- 3G weight & cable technology, MODBUS ready
- Immune to dust, sound, dielectric and temperature fluctuations
- Multiple outputs; serial, analog, pulse and relays are standard
- Intelligent cable control system
- AutoReturn™ sets effective measuring range, 98ft (30m) max.
- Manual, auto and SmartStart™ modes
- Easy setup with built-in LCD display and keypad
- Built-in bulls-eye level to aid in proper installation
- Choice of Flat, 5 degree, 10 degree or 30 degree mounting flange is standard
- Optional sensing weights include "umbrella" weight for light materials and plastic auto-fall-off bottle

**SPECIFICATION SUMMARY**
- **Power:** 100-240VAC, 50/60Hz AC
- **Power Consumption:** 6VA
- **Measurement:** Auto, SmartStart™ and manual
- **Range:** 98ft (30m) max.
- **Internal Display:** LCD, Dot Matrix 8 x 2, backlight
- **Serial Comm:** MODBUS
- **Analog Output:** 0-20mA or 4-20mA
- **Pulse Output:** DC transistor and AC relay
- **Ambient Temp:** -31°F to +140°F (-35°C to +60°C)
- **Operating Temp:** -31°F to +176°F (-35°C to +80°C)
- **Enclosure:** Cast aluminum, powder coat, Type 4X, IP66
- **Self-Validation:** Cable break, buried weight and lockout
- **Certifications:** CE Mark

**Model RCU**  
*Remote Control Unit For Inventory Monitoring*

**APPLICATIONS**
- Reliable remote monitoring of distance/level measured
- Interface with maximum of 128 sensors on each of two (2) sensor networks
- Remote control of sensor parameters including measurement mode, maximum measuring range, display mode and format, units, etc.

**FEATURES**
- Backlit LCD bright display
- Two (2) MODBUS sensor networks
- One (1) MODBUS slave PC serial connection
- One Relay alarm output
- Display mode choices: 1 sensor or 4 sensors
- Automatic alternating sensor displays
- Universal AC/DC power supply
- Suitable for outdoor use
- Alarm indication

**SPECIFICATION SUMMARY**
- **Power:** Universal 20-250VAC 50/60Hz, 20-250VDC
- **Ambient Temp:** -40°F to +185°F (-40°C to +85°C)
- **Electrical Entry:** Two (2) cable glands
- **Enclosure:** Polypropylene, IP65
- **Certifications:** CE Mark
### Key Attributes Technology Comparison For Bulk Solids Inventory Monitoring*

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<th>Technology</th>
<th>Non-Contact</th>
<th>Non-Invasive</th>
<th>Sensitive To Dust</th>
<th>Sensitive to Angle of Repose</th>
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### Point Level Technology Selection Guide For Level Control Applications*

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<th>Diaphragm</th>
<th>Tilt</th>
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<td>High &gt;40lbs/ft³ (&gt;640.7kg/m³)</td>
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<td>Moisture</td>
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