

# SURGE BINS: 45-DEGREE CONE SLOPE

## Standard Build Details

- 45-degree Hopper Cone Slope
- 14-gauge Carbon Steel Hopper Construction
- Cover with Access Hatch and Pre-drilled Mount for Vacuum Receiver
- 16.25-inch OD by 12.00-inch ID Square, Carbon Steel Discharge Flange
- NBE Graphite Gray Epoxy Exterior Finish
- Continuous-weld Seams on Hopper Cone Exterior and Straight Wall Interior
- Sidewall Stiffener Ribs (Model 32-445 and larger)
- High- and Low-level Sensor Ports
- High- and Low-level View Windows
- Pre-drilled Mount for Drop Tube
- 48.00-inch (minimum) Clearance Between Legs for Locating Container for Filling
- Lifting Lugs and Bolt-down Foot Pads



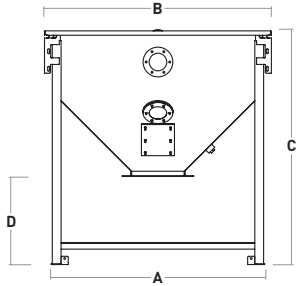
## Optional Features

<b>STAINLESS STEEL MATERIALS OF CONSTRUCTION</b>	<ul style="list-style-type: none"> <li>• 304 Stainless Steel</li> <li>• 316 Stainless Steel</li> </ul>
<b>INTERIOR EPOXY COATINGS</b>	<ul style="list-style-type: none"> <li>• NBE Graphite Gray Epoxy</li> <li>• Clear Epoxy</li> </ul>
<b>TOP COVER CONFIGURATIONS</b>	<ul style="list-style-type: none"> <li>• Reinforced Cover; Multiple Frame Designs to Support Loads up to 5,500 Pounds</li> <li>• Air Filter in Access Hatch</li> <li>• 1/3-2/3 Hinged Top Cover</li> <li>• Open Top</li> <li>• Flared Top Edge on Three Sides of Hopper Top</li> <li>• Steel-bar Grate Insert: 6.00-inch by 4.00-inch Openings</li> <li>• Perimeter Guardrail and Fixed Access Ladder</li> </ul>
<b>PROCESS MATERIAL HANDLING</b>	<ul style="list-style-type: none"> <li>• 12.00-inch Maintenance Slide Gate: Manual Operation</li> <li>• 12.00-inch Rack-and-Pinion Slide Gate: Manual Operation</li> <li>• 1-, 2-, 3-, 4-, 9-, or 13-hole Vacuum Line Probe Box</li> <li>• 1.50-, 2.00-, 2.50-, 3.00-, or 4.00-inch Vacuum Probes</li> <li>• Integrated Material Agitator</li> <li>• 4.00-inch Drop Tube: Standard or Extended Length</li> <li>• Drop Tube Manual Flow Control: Slide Gate or Butterfly Valve</li> <li>• Rotary Level Indicators</li> <li>• Rotary Level Indicator Readout and Control Panel</li> <li>• Leg Height Extensions: 40.00-inch or 60.00-inch</li> </ul>

## Custom Features

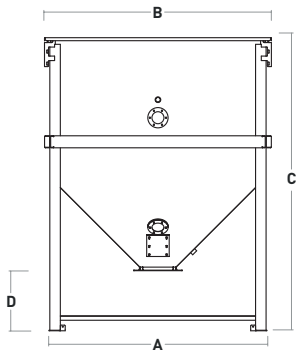
<b>FABRICATION &amp; FINISHES</b>	<ul style="list-style-type: none"> <li>• Non-standard Bin, Leg, and Drop Tube Dimensions</li> <li>• Heavier-gauge Materials of Construction</li> <li>• Continuous-weld Seams on Interior and Exterior</li> <li>• Special Exterior Paint Finish Colors</li> <li>• Special Interior Coatings</li> </ul>
<b>TOP COVER CONFIGURATIONS</b>	<ul style="list-style-type: none"> <li>• Application-specific Inlets, Vents, and Access Openings</li> <li>• Reinforced Cover-mounting Frame Designs to Support Weights in Excess of 5,500 Pounds</li> </ul>
<b>PROCESS MATERIAL HANDLING</b>	<ul style="list-style-type: none"> <li>• Access Platform and Guardrail Configurations</li> <li>• Ribbon or Plow-type Agitators</li> <li>• Discharge Flange Dimensions and Patterns</li> <li>• Discharge Gate Type and Size</li> <li>• Grate Insert Style and Openings Sizes</li> <li>• Magnet Types and Sizes</li> <li>• View Window Types, Sizes, and Locations</li> <li>• Material Level Sensor Styles and Locations</li> <li>• Weigh Scale System</li> <li>• Vacuum Line Probe Styles and Probe Box Sizes</li> </ul>

# 45-Degree Surge Bin Standard Capacities & Dimensions



## 45-Degree Hopper Cone Slope: From 15 to 120 Cubic Feet, Usable Volume

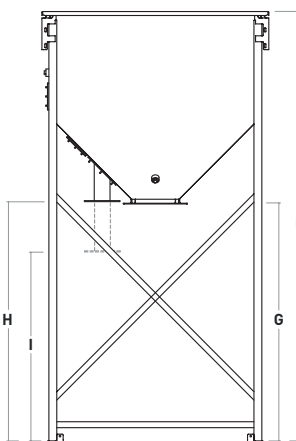
TOTAL AIR VOLUME (CU FT)	USABLE VOLUME (LBS) <sup>1</sup>	USABLE VOLUME (CU FT) <sup>1</sup>	A: BASE DIMENSION (IN) <sup>2</sup>	B: TOTAL WIDTH (IN) <sup>2</sup>	C: TOP HEIGHT (IN) <sup>2</sup>	D: FLANGE TO FLOOR HEIGHT (IN) <sup>2</sup>	MODEL NO.
28	525	15	48 x 48	51.50	53.00	20.00	32-145-48
57	1,540	44	48 x 48	51.50	75.00	20.00	32-245-48
37	665	19	54 x 54	57.50	55.50	20.00	32-145-54
58	1,365	39	54 x 54	57.50	68.50	20.00	32-245-54
86	2,100	60	60 x 60	63.50	77.50	20.00	32-345-60
115	3,115	89	60 x 60	63.50	91.50	20.00	32-445-60
145	4,200	120	60 x 60	63.50	106.50	20.00	32-545-60



## 45-Degree Hopper Cone Slope: From 127 to 501 Cubic Feet, Usable Volume

TOTAL AIR VOLUME (CU FT)	USABLE VOLUME (LBS) <sup>1</sup>	USABLE VOLUME (CU FT) <sup>1</sup>	A: BASE DIMENSION (IN) <sup>2</sup>	B: TOTAL WIDTH (IN) <sup>2</sup>	C: TOP HEIGHT (IN) <sup>2</sup>	D: FLANGE TO FLOOR HEIGHT (IN) <sup>2</sup>	MODEL NO.
172	4,445	127	72 x 72	75.50	97.50	20.00	32-645-72
201	5,460	156	72 x 72	75.50	107.50	20.00	32-745-72
228	6,405	183	72 x 72	75.50	116.50	20.00	32-845-72
258	7,420	212	72 x 72	75.50	126.50	20.00	32-945-72
287	8,470	242	72 x 72	75.50	136.50	20.00	32-1045-72
343	9,520	272	84 x 84	85.50	129.00	20.00	32-1245-84
400	11,480	328	84 x 84	85.50	143.35	20.00	32-1445-84
458	13,510	386	84 x 84	85.50	157.75	20.00	32-1645-84
515	15,505	443	84 x 84	85.50	172.00	20.00	32-1845-84
572	17,535	501	84 x 84	85.50	186.50	20.00	32-2045-84

<sup>1</sup> Based on 35 pounds per cubic foot of material at 30-degree angle of repose, material center-filled  
<sup>2</sup> Nominal dimensions



## Dimensions with Optional Leg Extensions & Drop Tube

### 40-INCH LEG EXTENSIONS

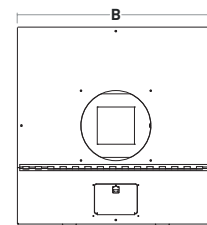
F: TOP HEIGHT (IN) <sup>2</sup>	G: FLANGE TO FLOOR HEIGHT (IN) <sup>2</sup>	DROP TUBE FLANGE TO FLOOR HEIGHT (IN) <sup>2</sup>	
		H: STANDARD	I: EXTENDED
C + 40.00	60.00	G + 1.50	G - 11.00

### 60-INCH LEG EXTENSIONS

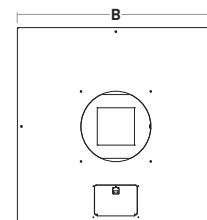
F: TOP HEIGHT (IN) <sup>2</sup>	G: FLANGE TO FLOOR HEIGHT (IN) <sup>2</sup>	DROP TUBE FLANGE TO FLOOR HEIGHT (IN) <sup>2</sup>	
		H: STANDARD	I: EXTENDED
C + 60.00	80.00	G + 1.50	G - 11.00

<sup>2</sup> Nominal dimensions

## Optional Bin Top Covers



1/3-2/3 Hinged Top



Pre-drilled vacuum receiver mount, and access hatch



- DISCHARGE
- STORE
- CONVEY
- FILL
- MIX
- RECLAIM
- INFEED
- PROCESS
- PACKAGE

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