



## SQUARE BOLTED BIN SYSTEMS

Trusted worldwide for:

- » Durable strength
- » Fast installation
- » Customized storage requirements



*Reliable, efficient storage  
for dry bulk materials*

[agri.chiefind.com](http://agri.chiefind.com)

***Trusted. Tested. True.®***

# CHIEF LEMANCO SQUARE BOLTED BIN SYSTEMS

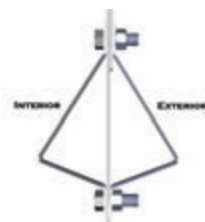


For over 60 years, industries throughout the world have turned to Chief Lemanco storage systems for the storage and gravity retrieval of dry bulk materials. Pre-engineered and custom configured for efficient, economical and reliable service, these systems are ideal for storing feed ingredients, grains, aggregates, fertilizers and most dry bulk materials.

Chief Lemanco storage systems can be designed to meet equipment loading requirements either above the bin roof or on the mezzanine floors in the main support structure.

## Strength and Durability

- Chief Lemanco storage systems can store dry bulk materials with densities up to 150 lbs/ft<sup>3</sup> (2403 kgs/m<sup>3</sup>).
- Bin components are 35% stronger than industry standards due to the use of high strength steel (55ksi yield strength) vs. commercial grade steel (36ksi yield strength).
- Compared to other manufacturers, Chief's durability is increased by 25% by finishing interior and exterior bin components with a zinc coating of G115 (1.15 oz/ft<sup>2</sup> = 2MIL thickness) vs. G90 (.90 oz/ft<sup>2</sup> = 1.5MIL coating thickness).
- Hoppers are painted steel.
- Galvanized roof sheets are standard.
- The profile of the exterior horizontal stiffeners has a 60-degree slope (see illustration at right) for increased strength and a cleaner surface area.



## Fast and Efficient Installation

- The overlap of the side sheets has a single row of holes allowing more sidewalls to be assembled on the ground and lifted into place (see illustration at right).
- There are fewer components to assemble:
  - » Tier height is 42" (106.7 cm).
  - » Bin compartments have chamfered corners.
- Hopper flashing is bolted directly into the bin assembly.



## Can Meet Your Present and Future Needs

- Bin options include 6', 7', 8', 10', and 12' (1.83 m, 2.13 m, 2.44 m, 3.05 m, and 3.66 m) with half and quarter bins available.
- Factory welded hoppers require no field assembly.
- Optional two-piece or bolt-together hoppers are available.
- Optional stainless steel or epoxy coated bins are available for storing corrosive materials.





# BUILT TO MEET YOUR NEEDS

## Bin System Options\*

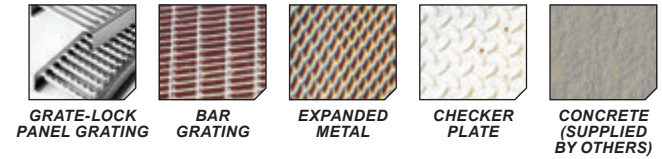
- 1 Standard man ways are vented (including filter media and bird screen) and made of galvanized steel.
- 2 Standard safety equipment includes ladders, cages, platforms safety gates and handrails that meet OSHA requirements.
- 3 Standard hoppers have 60-degree slope and internal corner chamfers. Chief welded hoppers do not require field assembly.
- 4 Structural steel supports are designed to meet seismic categories and wind loadings per IBC 2012. All structural members are fully coated. A325 fasteners are included.
- 5 Standard adaptors are 2-to-1 and/or 4-to-1, welded and coated with gray enamel on exterior and linseed oil on interior.
- 6 Standard suspended weigh hoppers come in 6', 7', or 8' (1.83 m, 2.13 m, 2.44 m) sizes with flare tops or header boxes/ covers, including canvas connectors and vents with filters. Support frame, shafts, wheels and drive package are provided for weigh lorries. Exterior is coated with gray enamel and interior with linseed oil.



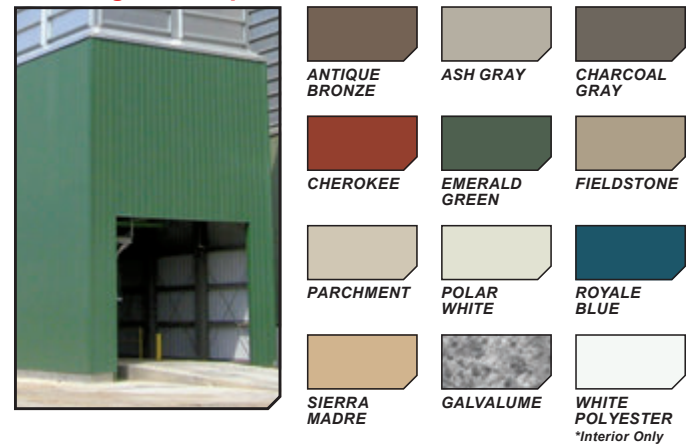
## A Wide Range of Bin System Options

Choose from girts, purlins, and siding (available in standard colors) to enclose and protect your equipment and personnel from the elements. Chief Lemanco Storage Systems can be designed for various head house options with head house columns anchored into the vertical bin columns for maximum stability.

## Mezzanine Floor Options



## Cladding Color Options:



## Bin Accessories

- Standard discharge gate frames are of galvanized steel and offer pneumatic, electric or manual actuated mechanisms. Fully enclosed gates are available.
- The micro ingredient batching system offers ease of operation, dependable service, and accurate batches.



\*Optional types, materials, and coatings are available for standard adaptors, hoppers, man ways, and safety equipment.



# CHIEF LEMANCO BIN CAPACITY CHARTS

NOTE: Capacities are based on a density of 40lbs/cu. Ft. (641 kg/m<sup>3</sup>)

\*All Hoppers are 60 degree sloped, corner draw with 18" x 18" discharge for capacity.  
\*Bin design is based on dry free flowing materials with a bulk density of stored material.

## BIN SIZE: 6' X 6' (1.83 M SQUARE)

| Tiers | Overall |       | Level Full |       |       |             |
|-------|---------|-------|------------|-------|-------|-------------|
|       | Ft.     | (M)   | Cu. Ft.    | Cu. M | Tons  | Metric Tons |
| 1     | 13.02   | 3.97  | 229        | 6.49  | 4.58  | 4.15        |
| 2     | 16.52   | 5.04  | 355        | 10.05 | 7.1   | 6.44        |
| 3     | 20.02   | 6.10  | 481        | 13.62 | 9.62  | 8.73        |
| 4     | 23.52   | 7.17  | 607        | 17.19 | 12.14 | 11.01       |
| 5     | 27.02   | 8.24  | 733        | 20.76 | 14.66 | 13.3        |
| 6     | 30.52   | 9.30  | 859        | 24.33 | 17.18 | 15.59       |
| 7     | 34.02   | 10.37 | 985        | 27.90 | 19.7  | 17.87       |
| 8     | 37.52   | 11.44 | 1111       | 31.46 | 22.22 | 20.16       |
| 9     | 41.02   | 12.50 | 1237       | 35.03 | 24.74 | 22.44       |
| 10    | 44.52   | 13.57 | 1363       | 38.60 | 27.26 | 24.73       |
| 11    | 48.02   | 14.64 | 1489       | 42.17 | 29.78 | 27.02       |
| 12    | 51.52   | 15.70 | 1615       | 45.74 | 32.3  | 29.3        |
| 13    | 55.02   | 16.77 | 1741       | 49.31 | 34.82 | 31.59       |
| 14    | 58.52   | 17.84 | 1867       | 52.87 | 37.34 | 33.87       |
| 15    | 62.02   | 18.90 | 1993       | 56.44 | 39.86 | 36.16       |
| 16    | 65.52   | 19.97 | 2119       | 60.01 | 42.38 | 38.45       |
| 17    | 69.05   | 21.04 | 2245       | 63.58 | 44.9  | 40.73       |
| 18    | 72.52   | 22.10 | 2371       | 67.15 | 47.42 | 43.02       |

\*Hopper Height is 6'6" (2.01 M) \*Hopper Capacity is 103 cu. Ft. (2.92m<sup>3</sup>)

## BIN SIZE: 7' X 7' (2.13 M SQUARE)

| Tiers | Overall |       | Level Full |       |       |             |
|-------|---------|-------|------------|-------|-------|-------------|
|       | Ft.     | (M)   | Cu. Ft.    | Cu. M | Tons  | Metric Tons |
| 1     | 14.92   | 4.55  | 356        | 10.07 | 7.11  | 6.45        |
| 2     | 18.42   | 5.61  | 527        | 14.92 | 10.54 | 9.56        |
| 3     | 21.92   | 6.68  | 699        | 19.78 | 13.97 | 12.67       |
| 4     | 25.42   | 7.75  | 870        | 24.64 | 17.40 | 15.78       |
| 5     | 28.92   | 8.81  | 1042       | 29.50 | 20.83 | 18.90       |
| 6     | 32.42   | 9.88  | 1213       | 34.35 | 24.26 | 22.01       |
| 7     | 35.92   | 10.95 | 1385       | 39.21 | 27.69 | 25.12       |
| 8     | 39.42   | 12.02 | 1556       | 44.07 | 31.12 | 28.23       |
| 9     | 42.92   | 13.08 | 1728       | 48.92 | 34.55 | 31.34       |
| 10    | 46.42   | 14.15 | 1899       | 53.78 | 37.98 | 34.45       |
| 11    | 49.92   | 15.22 | 2071       | 58.64 | 41.41 | 37.57       |
| 12    | 53.42   | 16.28 | 2242       | 63.49 | 44.84 | 40.68       |
| 13    | 56.92   | 17.35 | 2414       | 68.35 | 48.27 | 43.79       |
| 14    | 60.42   | 18.42 | 2585       | 73.21 | 51.70 | 46.90       |
| 15    | 63.92   | 19.48 | 2757       | 78.06 | 55.13 | 50.01       |
| 16    | 67.42   | 20.55 | 2928       | 82.92 | 58.56 | 53.12       |
| 17    | 70.92   | 21.62 | 3100       | 87.78 | 61.99 | 56.24       |
| 18    | 74.42   | 22.68 | 3272       | 92.63 | 65.42 | 59.35       |

\*Hopper Height is 8'5" (2.59 M) \*Hopper Capacity is 184 cu. Ft. (5.21 m<sup>3</sup>)

## BIN SIZE: 8' X 8' (2.44 M SQUARE)

| Tiers | Overall |       | Level Full |        |       |             |
|-------|---------|-------|------------|--------|-------|-------------|
|       | Ft.     | (M)   | Cu. Ft.    | Cu. M  | Tons  | Metric Tons |
| 1     | 16.25   | 4.95  | 509        | 14.41  | 10.18 | 9.24        |
| 2     | 19.75   | 6.02  | 733        | 20.76  | 14.66 | 13.30       |
| 3     | 23.25   | 7.09  | 957        | 27.10  | 19.14 | 17.36       |
| 4     | 26.75   | 8.15  | 1181       | 33.45  | 23.62 | 21.43       |
| 5     | 30.25   | 9.22  | 1405       | 39.79  | 28.10 | 25.49       |
| 6     | 33.75   | 10.29 | 1629       | 46.13  | 32.58 | 29.56       |
| 7     | 37.25   | 11.35 | 1853       | 52.48  | 37.06 | 33.62       |
| 8     | 40.75   | 12.42 | 2077       | 58.82  | 41.54 | 37.68       |
| 9     | 44.25   | 13.49 | 2301       | 65.16  | 46.02 | 41.75       |
| 10    | 47.75   | 14.55 | 2525       | 71.51  | 50.50 | 45.81       |
| 11    | 51.25   | 15.62 | 2749       | 77.85  | 54.98 | 49.88       |
| 12    | 54.75   | 16.69 | 2973       | 84.20  | 59.46 | 53.94       |
| 13    | 58.25   | 17.75 | 3197       | 90.54  | 63.94 | 58.01       |
| 14    | 61.75   | 18.82 | 3421       | 96.88  | 68.42 | 62.07       |
| 15    | 65.25   | 19.89 | 3645       | 103.23 | 72.90 | 66.13       |
| 16    | 68.75   | 20.96 | 3869       | 109.57 | 77.38 | 70.20       |
| 17    | 72.25   | 22.02 | 4093       | 115.91 | 81.86 | 74.26       |
| 18    | 75.75   | 23.09 | 4317       | 122.26 | 86.34 | 78.33       |

\*Hopper Height is 9'83" (3.0 M) \*Hopper Capacity is 285 cu. Ft. (8.07 m<sup>3</sup>)

## BIN SIZE: 10' X 10' (3.05 M SQUARE)

| Tiers | Overall |       | Level Full |        |       |             |
|-------|---------|-------|------------|--------|-------|-------------|
|       | Ft.     | (M)   | Cu. Ft.    | Cu. M  | Tons  | Metric Tons |
| 1     | 19.25   | 5.87  | 892        | 25.35  | 17.9  | 16.18       |
| 2     | 22.75   | 6.93  | 1242       | 35.26  | 24.9  | 22.53       |
| 3     | 26.25   | 8     | 1592       | 45.17  | 31.9  | 28.88       |
| 4     | 29.75   | 9.07  | 1942       | 55.08  | 38.9  | 35.23       |
| 5     | 33.25   | 10.13 | 2292       | 64.99  | 45.9  | 41.59       |
| 6     | 36.75   | 11.2  | 2642       | 74.91  | 52.9  | 47.94       |
| 7     | 40.25   | 12.27 | 2992       | 84.82  | 59.9  | 54.29       |
| 8     | 43.75   | 13.34 | 3342       | 94.73  | 66.9  | 60.64       |
| 9     | 47.25   | 14.4  | 3692       | 104.64 | 73.9  | 66.99       |
| 10    | 50.75   | 15.47 | 4042       | 114.55 | 80.9  | 73.34       |
| 11    | 54.25   | 16.54 | 4392       | 124.47 | 87.9  | 79.69       |
| 12    | 57.75   | 17.6  | 4742       | 134.38 | 94.9  | 86.04       |
| 13    | 61.25   | 18.67 | 5092       | 144.29 | 101.9 | 92.39       |
| 14    | 64.75   | 19.74 | 5442       | 154.2  | 108.9 | 98.74       |
| 15    | 68.25   | 20.8  | 5792       | 164.11 | 115.9 | 105.09      |
| 16    | 71.75   | 21.87 | 6142       | 174.03 | 122.9 | 111.44      |
| 17    | 75.25   | 22.94 | 6492       | 183.94 | 129.9 | 117.79      |
| 18    | 78.75   | 24    | 6842       | 193.85 | 136.9 | 124.14      |

\*Hopper Height is 12'83" (3.91 M) \*Hopper Capacity is 542 cu. Ft. (15.35 m<sup>3</sup>)

## BIN SIZE: 12' X 12' (3.66 M SQUARE)

| Tiers | Overall |       | Level Full |        |        |             |
|-------|---------|-------|------------|--------|--------|-------------|
|       | Ft.     | (M)   | Cu. Ft.    | Cu. M  | Tons   | Metric Tons |
| 1     | 22.75   | 6.93  | 1498       | 42.42  | 29.96  | 27.18       |
| 2     | 26.25   | 8.00  | 2002       | 56.70  | 40.04  | 36.32       |
| 3     | 29.75   | 9.07  | 2506       | 70.97  | 50.12  | 45.47       |
| 4     | 33.25   | 10.13 | 3010       | 85.24  | 60.20  | 54.61       |
| 5     | 36.75   | 11.20 | 3514       | 99.52  | 70.28  | 63.76       |
| 6     | 40.25   | 12.27 | 4018       | 113.79 | 80.36  | 72.90       |
| 7     | 43.75   | 13.34 | 4522       | 128.06 | 90.44  | 82.05       |
| 8     | 47.25   | 14.40 | 5026       | 142.34 | 100.52 | 91.19       |
| 9     | 50.75   | 15.47 | 5530       | 156.61 | 110.60 | 100.33      |
| 10    | 54.25   | 16.54 | 6034       | 170.88 | 120.68 | 109.48      |
| 11    | 57.75   | 17.60 | 6538       | 185.16 | 130.76 | 118.62      |
| 12    | 61.25   | 18.67 | 7042       | 199.43 | 140.84 | 127.77      |
| 13    | 64.75   | 19.74 | 7546       | 213.70 | 150.92 | 136.91      |
| 14    | 68.25   | 20.80 | 8050       | 227.98 | 161.00 | 146.06      |
| 15    | 71.75   | 21.87 | 8554       | 242.25 | 171.08 | 155.20      |
| 16    | 75.25   | 22.94 | 9058       | 256.52 | 181.16 | 164.34      |
| 17    | 78.75   | 24.00 | 9562       | 270.80 | 191.24 | 173.49      |
| 18    | 82.25   | 25.07 | 10066      | 285.07 | 201.32 | 182.63      |

\*Hopper Height is 16'33" (4.98 M) \*Hopper Capacity is 994 cu. Ft. (28.15 m<sup>3</sup>)



P.O. Box 848 | Kearney, Nebraska 68848 USA  
Phone (308) 237-3186 | Toll Free (800) 359-7600  
Fax (308) 389-6703  
agri.chiefind.com

06/17/PC 1/13/18