

## LEMANCO BIN PLANNING GUIDE

**PURPOSE**

The following questions and information have been developed as a guide to assist you in planning your storage bin addition. This guide is designed to stimulate your thought process and provide the information needed to develop an accurate quotation to serve your requirements. We encourage you to read the following information and **Lemanco's Features and Options Brochure** then apply what is needed in your particular application.

COMPANY: \_\_\_\_\_ DATE: \_\_\_\_\_  
 CONTACT: \_\_\_\_\_ TEL: \_\_\_\_\_  
 ADDRESS: \_\_\_\_\_ FAX: \_\_\_\_\_  
 CITY: \_\_\_\_\_ ST. \_\_\_\_\_ ZIP: \_\_\_\_\_ Email: \_\_\_\_\_

**Project Scope** Site Location: \_\_\_\_\_

Are planned bins for: New Construction: \_\_\_\_\_ Add-On: \_\_\_\_\_ Replacement: \_\_\_\_\_  
 Target Date to start construction: \_\_\_\_\_, 20\_\_\_\_\_.

**Bin Structure use:**

Receiving: \_\_\_\_\_ Load-Out: \_\_\_\_\_  
 Batching: \_\_\_\_\_ Other: \_\_\_\_\_

NOTE: Use separate form for each application

Material To Be Stored	Density #/Cu. Ft.	Quantity Received	Tons/Trucks, etc. Receiving Units	Tons/Day Daily Usage	Tons Min. Storage Required	Flow Characteristics	# of Bins Required
(1)							
(2)							
(3)							
(4)							
(5)							
(6)							
(7)							
(8)							
(9)							
(10)							
(11)							
(12)							
(13)							
(14)							
(15)							
(16)							
(17)							
(18)							
(19)							
(20)							

**Use Additional Pages if needed and attach**

**Ingredient/Batching Bins**

Number of bins: full size: \_\_\_\_\_, half size: \_\_\_\_\_, qtr. size: \_\_\_\_\_

Capacity in tons: full size: \_\_\_\_\_, half size: \_\_\_\_\_, qtr. size: \_\_\_\_\_

**Bin Discharge Method:**

Note: Standard Gate Sizes: 18" x 18" and 24" x 24" (Other Sizes Available)

Standard Screw Feeder Sizes: single 9" dia., single 12" dia., single 14" dia.

double 12" dia., and double 14" dia. (Other Sizes Available)

# of gates: \_\_\_\_\_ size: \_\_\_\_\_, totally enclosed: \_\_\_\_\_,  
type: air \_\_\_\_\_ qty., manual \_\_\_\_\_ qty., solenoid: sgl \_\_\_\_\_, dbl \_\_\_\_\_,

# of gates: \_\_\_\_\_ size: \_\_\_\_\_, totally enclosed: \_\_\_\_\_,  
type: air \_\_\_\_\_ qty., manual \_\_\_\_\_ qty., solenoid: sgl \_\_\_\_\_, dbl \_\_\_\_\_,

# of feeders: \_\_\_\_\_ size: \_\_\_\_\_ sgl \_\_\_\_\_, dbl \_\_\_\_\_,

# of feeders: \_\_\_\_\_ size: \_\_\_\_\_ sgl \_\_\_\_\_, dbl \_\_\_\_\_,

# of feeders: \_\_\_\_\_ size: \_\_\_\_\_ sgl \_\_\_\_\_, dbl \_\_\_\_\_,

**Weigh Hopper** size (batch or mixer size): \_\_\_\_\_ ton.

If mixer & surge hopper are to be located above work floor give clearance needed under weigh hopper discharge gate: \_\_\_\_\_.

**Mezzanine Floors** (Attached to Bin Support Columns), Number of Floors: \_\_\_\_\_.

Type of floor: concrete: \_\_\_\_\_, bar grating: \_\_\_\_\_, plate: \_\_\_\_\_.

Floor Size Each: \_\_\_\_\_.

Loads per floor: \_\_\_\_\_.

(loadings for the mezzanies should be specified as concentrated weights, such as pounds per machine, or uniform loads such as pound per square foot of area.)

**Head house** (on bin roof deck): Height of Head house Mezzanine above roof deck \_\_\_\_\_ ft.

size: \_\_\_\_\_ x \_\_\_\_\_ eave height: \_\_\_\_\_, mezzanine floor in head house: size \_\_\_\_\_ x \_\_\_\_\_.

Weight of machinery to be supported on roof deck: \_\_\_\_\_ lbs per sq./ft.,

mezz: \_\_\_\_\_ lbs per sq./ft.

If bins & structure are to extend up through roof of building give eave height: \_\_\_\_\_ roof pitch: \_\_\_\_\_.

Show location of bin group, relative to building dimensions, on the hopper plan view.

**Enclosure Around Support Structure** yes: \_\_\_\_\_, no: \_\_\_\_\_

bin structure: \_\_\_\_\_ head house: \_\_\_\_\_ access doors: \_\_\_\_\_ size \_\_\_\_\_

**Safety Equipment:** ladders/cage \_\_\_\_\_ lin. ft. \_\_\_\_\_

handrails \_\_\_\_\_ lin. ft. \_\_\_\_\_

catwalks \_\_\_\_\_ lin. ft. \_\_\_\_\_

(If hopper plan and building sketch is on separate sheets, please attach. If several bin groups are needed, please attach a sketch of each group and identify purpose.)

**Load-Out Bins**

Number of Bins: full size: \_\_\_\_\_ half size: \_\_\_\_\_, qtr. size: \_\_\_\_\_.

Capacity in Tons: full size: \_\_\_\_\_ half size: \_\_\_\_\_, qtr. size: \_\_\_\_\_.

**Bin Discharge Method:**

# of gates: \_\_\_\_\_ size: \_\_\_\_\_, totally enclosed: \_\_\_\_\_,  
type: air \_\_\_\_\_ qty., manual \_\_\_\_\_ qty., solenoid: sgl \_\_\_\_\_, dbl \_\_\_\_\_,

# of gates: \_\_\_\_\_ size: \_\_\_\_\_, totally enclosed: \_\_\_\_\_,  
type: air \_\_\_\_\_ qty., manual \_\_\_\_\_ qty., limit switches \_\_\_\_\_,

Discharge Adaptor: 4 to 1: \_\_\_\_\_, 2 to 1: \_\_\_\_\_.

Weigh Hopper requirements: traveling \_\_\_\_\_, stationary: \_\_\_\_\_.

Truck scale requirements: pit scale: \_\_\_\_\_, above grade: \_\_\_\_\_.

Service area requirements under bins: cat walk \_\_\_\_\_, full mezzanine \_\_\_\_\_, length \_\_\_\_\_.

Weight of any machinery/equipment to be supported on mezzanine: \_\_\_\_\_ pounds.

describe \_\_\_\_\_.

Structural steel clearance required beneath discharge \_\_\_\_\_ feet.

**Enclosure Around Support Structure** yes: \_\_\_\_\_, no: \_\_\_\_\_

Give size of doors for trucks: \_\_\_\_\_ for walk-in: \_\_\_\_\_ Access to mezzanine: stairway: \_\_\_\_\_ ladder: \_\_\_\_\_.

**Bin Requirements for Other Purposes:**

Purpose: \_\_\_\_\_

Number of bins: full size \_\_\_\_\_, half size \_\_\_\_\_, qtr. size \_\_\_\_\_.

Capacity in tons: full size \_\_\_\_\_, half size \_\_\_\_\_, qtr. size \_\_\_\_\_.

**Bin Discharge Method:**

# of gates: \_\_\_\_\_ size: \_\_\_\_\_, totally enclosed: \_\_\_\_\_,  
type: air \_\_\_\_\_ qty., manual \_\_\_\_\_ qty., solenoid: sgl \_\_\_\_\_, dbl \_\_\_\_\_,

# of gates: \_\_\_\_\_ size: \_\_\_\_\_, totally enclosed: \_\_\_\_\_, solenoid: sgl \_\_\_\_\_, dbl \_\_\_\_\_.  
type: air \_\_\_\_\_ qty., manual \_\_\_\_\_ qty.,

# of feeders: \_\_\_\_\_ size: \_\_\_\_\_ sgl \_\_\_\_\_, dbl \_\_\_\_\_,

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# of feeders: \_\_\_\_\_ size: \_\_\_\_\_ sgl \_\_\_\_\_, dbl \_\_\_\_\_,

Discharge Adaptors: size 4 to 1 \_\_\_\_\_ qty.  
size 2 to 1 \_\_\_\_\_ qty.

Structural steel supports to provide \_\_\_\_\_ feet of clearance under discharge.

Mezzanine Floor Requirements: \_\_\_\_\_ qty. size: \_\_\_\_\_.

Weight of any machinery/equipment to be supported on mezzanine: \_\_\_\_\_ lbs per sq./ft.  
describe \_\_\_\_\_.

Type of Floor: concrete: \_\_\_\_\_ bar grating: \_\_\_\_\_ tread plate: \_\_\_\_\_.

Head house requirements: size: \_\_\_\_\_ height above bin deck: \_\_\_\_\_.

Weight of any machinery/equipment to be supported on mezzanine: \_\_\_\_\_ lbs per sq./ft.  
describe \_\_\_\_\_.

Enclosures: bin structure: \_\_\_\_\_ head house: \_\_\_\_\_ access doors: \_\_\_\_\_ size \_\_\_\_\_.

Safety Equipment: ladders/cage \_\_\_\_\_ lin. ft. \_\_\_\_\_

handrails \_\_\_\_\_ lin. ft. \_\_\_\_\_

catwalks \_\_\_\_\_ lin. ft. \_\_\_\_\_

**General Information**

Man way 30" x 24" with filter bag, inspection port, and safety grid is furnished as standard. A sealed man way with pneumatic inlet stub and bin vent filter collar is offered as optional. Lemanco's Bin sizes 8' x 8', 10' x 10' including half and quarter sizes, have a standard roof of 3/16" plate, with 2 coats of silverbrite. 6' x 6' and 7' x 7' series bins have a standard roof of 11 ga. steel with 2 coats of silverbrite. Optional roof materials are also available such as checkered plate.

**LEMANCO'S Optional Weigh Hoppers Include**

- Traveling Weigh Lorry
- Stationary Weigh Hopper
- Weigh Hoppers with flared tops, cover, vent and canvas connector
- Flared tops vary from 10'x10' to 16'x16'sq. Weigh hoppers are supported in the bin support structure
- Weigh hoppers also come with header box when a large number of feeder screws are to be accommodated
- Traveling weigh lorry come with trolleys, shafts, support frame, load cells, trim cable, junction box, pillow block bearings, power unit (gear motor) with reversing starter, brake, chain & sprocket drive, trolley rails, rail support beams, and suspension columns to bolt onto the bin supports.

**Other Options Include:**

Mounting holes, mounting stubs for bin level indicators, air pads, air cannons and special mountings.

**Optional At No Cost**

Lemanco's Bin Roof standard is steel construction and can support thousands of pounds of machinery mounted on the roof if advised at time of order, because the machinery loading must be accounted for in the calculations of the structural steel bin supports. This standard steel roof can be substituted with curbing and decking to receive a concrete deck.

**Note**

- Please refer to our features and options (separate brochure) which shows available options, prior to completing this questionnaire.
- Other considerations that may apply during the planning stages are:
  1. Zoning restrictions
  2. Applicable codes
  3. Environmental impact & permits
  4. Building permits
  5. Soil tests
  6. Site restrictions
  7. Insurance requirements
  8. Rail siding
  9. Additional power requirements
  10. Engineering design assistance
  11. Contractor assistance
  12. Timing

**COMMENTS:** Please copy page 2 and use for all additional applications. We hope this guide serves as a useful method for you to plan your bin requirements. Should you have any questions concerning storage bins, please contact us. We will be pleased to provide you with a quotation.

Please Show Desired Compartment Arrangement and Desired Support Column Locations.  
 Purpose to be Used For \_\_\_\_\_.

PLAN VIEW											
A .	.	.	.	.	.	.	.	.	.	.	.
B .	.	.	.	.	.	.	.	.	.	.	.
C .	.	.	.	.	.	.	.	.	.	.	.
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M .	.	.	.	.	.	.	.	.	.	.	.
1	2	3	4	5	6	7	8	9	10	11	12

**STANDARD BIN SIZES**  
7' x 7', 8' x 8', 10' x 10'

*If in the future you plan to add-on more bins, please show side or sides of the future add-on, if they are to be attached.*

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