MWPS-74401

Portable Fertilizer Storage

An 8' x 8' x 16' plywood bin on skids. the bin is rotated 45° and supported above the skids to form a hopper bottom. Capacity is 24 ton.

WARRANTY DISCLAIMER

This plan provides conceptual information only. Neither MidWest Plan Service nor any of the cooperating land grant universities, or their respective agents or employees, have made, and do not hereby make, any representation, warranty or covenant with respect to the specifications in this plan. Additional professional services will be required to tailor this plan to your situation, including but not limited to: assurance of compliance with codes and regulations; review of specifications for materials and equipment; supervision of site selection, bid letting and construction; and provision for utilities, waste management, roads or other access.



MIDWEST PLAN SERVICE

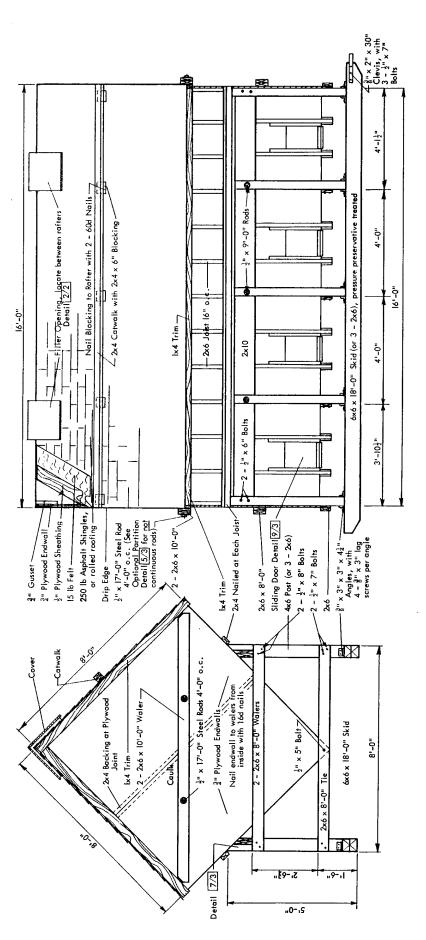
Cooperative Extension Work in Agriculture and Home Economics and Agricultural Experiment Stations of North Central Region - USDA Cooperating

> PORTABLE FERTILIZER STORAGE

MIDWEST PLAN NO. 744Ø1

CAUTION!

Additional professional services will be required to tailor this plan to your situation, including but not limited to: assurance of compliance with codes and regulations; review of specifications for materials and equipment; supervision of site selection, bid letting and construction; and provision for utilities, waste management, roads or other access. Furthermore, any deviation from the given specifications may result in structural failure, property damage, and personal injury including loss of life.



7 **END ELEVATION**

Capacity = 1½ tons of 60 pcf fertilizer per 1 ft of bin length.

It is important to provide racking strength in the frame to resist possible unbalanced loading. Bolt 2x6 bottom ties to joists and mail endwall to 8·0" walers from inside with 16d nails.

Secure the empty bin against wind, locate it in a sheltered area with posts at each corner, fasten crosspieces over the skids to the posts.

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Description Elevations Bill of Materials

Do not attempt to move a loaded bin: the skid structure is not strong enough to withstand it. Park the bin on a solid, level site to prevent settling and permit easier unloading.

Adapted from North Dakota State University Plan #732-1-4

SIDE ELEVATION 2/1



Section & Detail Indicator

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Lumber Specifications
Outring Diagrams
Filler Opening and Cover Detail
Building Section
Gusset Details
Optional Partition Details
Support Details

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BILL OF MATERIALS

DESCRIPTION		2-66 kg - 07 mess 2-66 kg - 07 mess 4-66 x 5 - 07 Posss 5-66 x 18 - 07 Stools (pressure preservative treated) 1-44 kg - 07 mm 1-44 x 16 - 07 mm 4-44 x 16 - 07 mm 1-44 x 16 - 07 mm 1-44 x 16 - 07 mm 1-44 x 16 x	34. x 4 v 1. x 9 v 1. Phywood moon sign x 4 v 1. x 8 v 1. Phywood filler Opening. Stiding Doors & Gussers 224 x 8 v 1. Blocking & Door Guides 224 x 8 v 1. Blocking & Door Guides 22 x 5 v 1. Blocking and sign x 1. x 1	Asparal Shingles, or rolled rooling Building Felt 3.8 x 3 x 3 Angle 3.8 x 3 Lap Screws 1 y 5 Boils 1 y 7 Boils 1 y 8 Boils 1 y 8 Boils 1 y 8 Boils 1 y 8 Boils	
Ŏ.	26 26 27 27 27 44 27	4 N O N 4 N 80 4 K		200 50 ft 260 50 ft 80 -0 ' 50 50 144 144 62	52 18 - 0

OPTIONAL PARTITION

34" - 4'-0" x 8'-0" Plywood	2x4 - 8'-0" Blocks	2x6 - 10'-0" Walers	1/2" Heavy Plate Washers	1/2" Nuts	Substitute: 4 - 1/2" x 9'-0" Rods for 2 - 1/2" x 17'-0" Ro
~	7	2	4	4	Substitu

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FILLER OPENING 2/2

Capyright © 1975 Midwest Plan Service

LUMBER SPECIFICATIONS

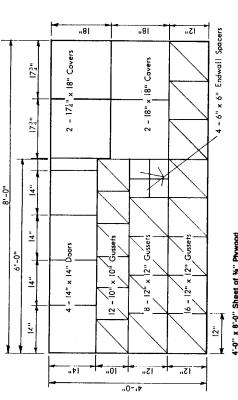
Dimension Lumber 2.4 Construction Grade (Doug Fir, Southern Yellow Pine or Helm Fir). So up No. 2 or better (Doug Fir, Southern Yellow Pine or Helm Fir).

32/16).

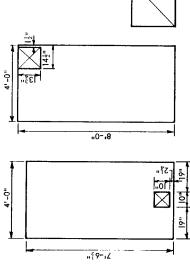
Bin Floor, Partitions & Endwalls—¾" C-C Ext (Identification Index = 48/24). Plywood

Roof Sheathing—1/2 C-C Ext (Identification Index

Skids
Skassure Preservative Treated (Southern Yellow Pine or equivalent) creosote—10 pcf. Penta—0.50 pcf. ACA or CCA (Type A or B)—0.40 pcf.



4'-0" x 8'-0" Sheet of 1/4" Phywood



4 - 10"x10" Bin Openings

3" Scrap

%" Plywood Floor Sheet With Sliding Door Opening

½" Plywood Roof Sheet With Filler Opening

-4 - Gussets for Hatch Covers 4 - 13%"-13" Roof Openings

10،

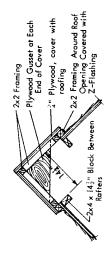
4 - 10"

10

1/2 **CUTTING DIAGRAMS**

3" Plywood, cover with roofing >

-2x2 x 123" 2x2 x II 2"-



COVER DETAIL 3/2

