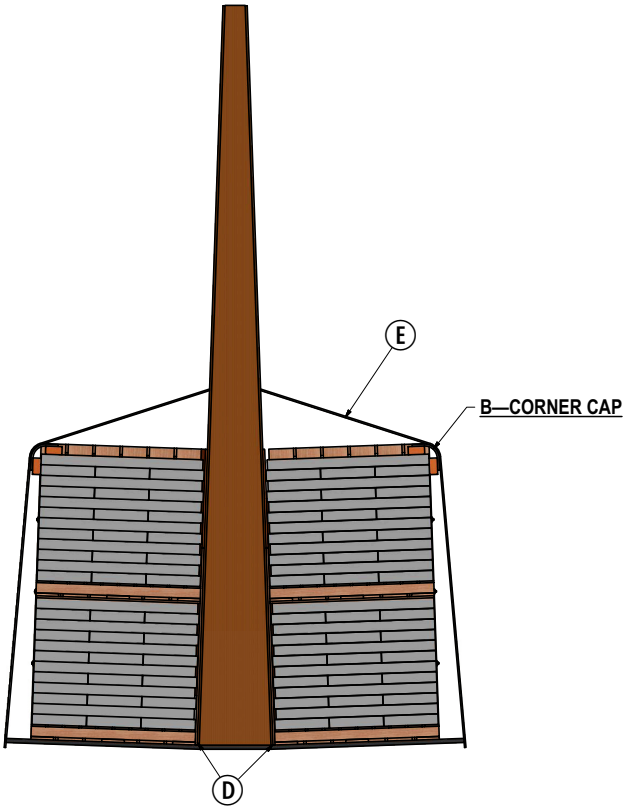
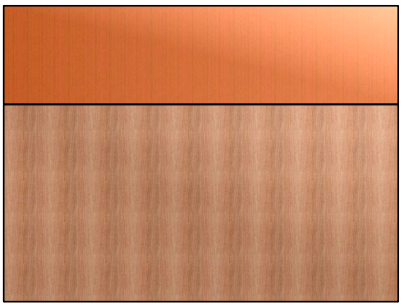
Fig. 40 (New 02/14) (Concluded)

SHINGLES, PALLETIZED, MINIMUM 40 IN. × 40 IN.—RISERLESS CENTER A-FRAME FLATCARS



END VIEW



D—WOOD PANELS

Item	No. of Pcs.	Description
A		Vacant.
B	Full length of the top layers.	Corner caps: 8 ft or longer 2 × 4s connected by Type 1A strapping. The corner caps protect the top edge of the product when secured by the cables.
C	As required.	Slip sheet: used to protect product on bottom pallet when double-stacking pallets.
D	Full length of load.	Wood panels: minimum thickness 3/8 in., minimum length 8 ft, placed lengthwise, equal to height of load, used to protect product from rubbing against beam.
E	Use all cables.	Cables: 3/8 in. diameter, 8,800 lb minimum breaking strength. Winch assemblies must be equipped with a device to maintain tension. Prior to tightening, there must be a minimum of 2 1/2 wraps of cable around the winch drum. When practical, all cables must be used and must be free of kinks and tangles. Tension to be applied with the use of an 18 in. bar or 3/8 in. ratchet. Cables shall be secured to A-frame in slot nearest to top of package.

Notes and Additional Requirements:

1. Pallet material and construction must be substantial and suitable for transporting product to destination.
2. All piles in the same layer must be of equal height and tightly stowed.
3. Each pile consists of bundles layered and stacked on a pallet. Layers within each unit must be alternately rotated to interlock the stack.
4. Piles must be tight against each other lengthwise.
5. Piles must be placed tight against A-frame to prevent loosening of cables.
6. Voids must be kept to a minimum and as close as possible to center of load, and filler material applied to make solid load, bulkhead to bulkhead.
7. Inflatable dunnage may be used to fill longitudinal voids of 12 in. or less. See Section 1, General Rule 12.

Reference the General Rules in Section 1 of the *Open Top Loading Rules Manual* for additional details.

Fig. 40-A (New 01/16)

SHINGLES, PALLETIZED, MINIMUM 40 IN. × 40 IN., INCOMPLETE LAYER—RISERLESS CENTER A-FRAME FLATCARS

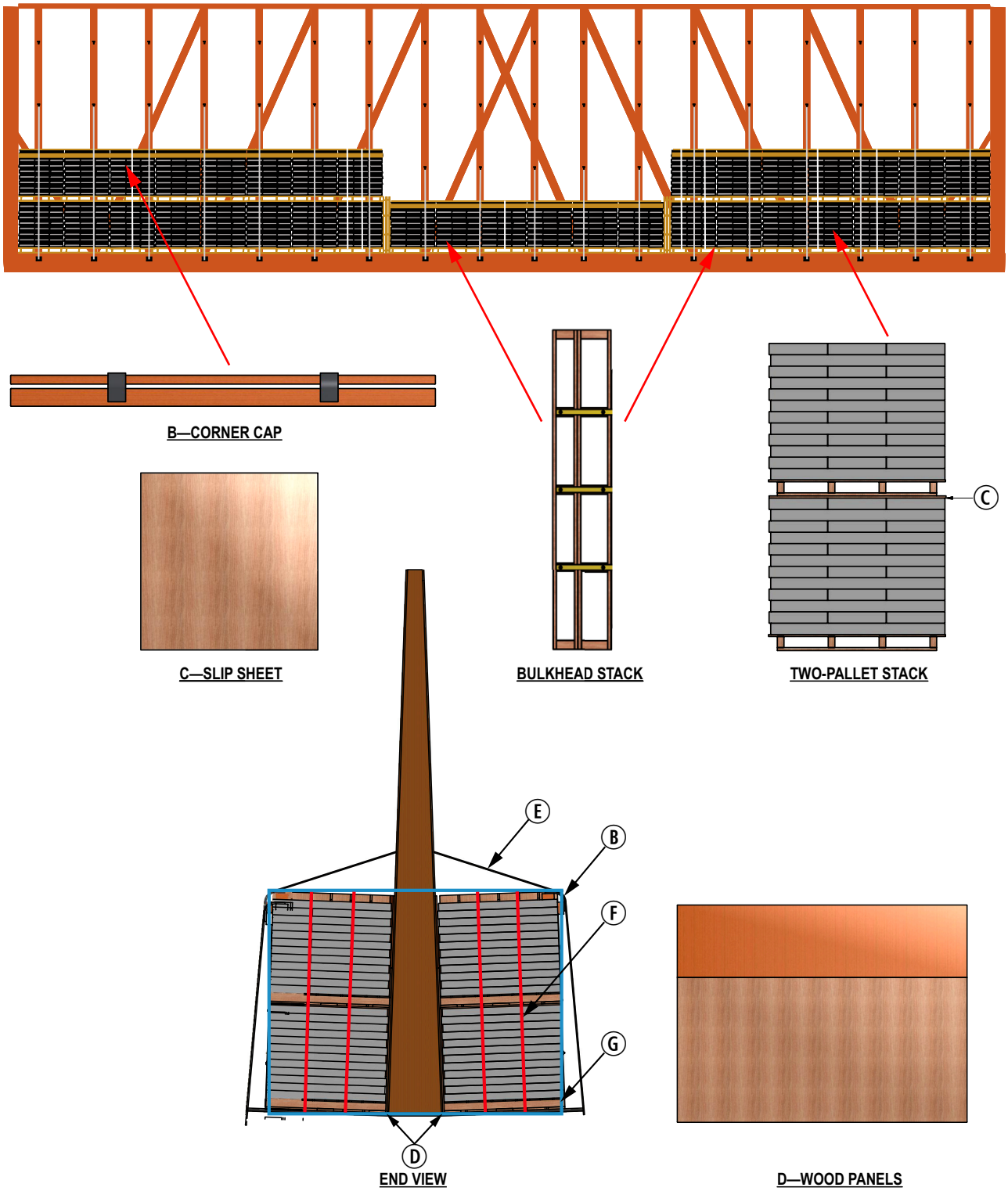


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Fig. 40-A (New 01/16) (Concluded)

SHINGLES, PALLETIZED, MINIMUM 40 IN. × 40 IN., INCOMPLETE LAYER—RISERLESS CENTER A-FRAME FLATCARS

Item	No. of Pcs.	Description
A		Vacant.
B	Full length of the top layers.	Corner caps: 8 ft or longer 2 × 4s connected by Type 1A strapping. The corner caps protect the top edge of the product when secured by the cables.
C	As required.	Slip sheet: used to protect product on bottom pallet when double-stacking pallets.
D	Full length of load.	Wood panels: minimum thickness 3/8 in., minimum length 8 ft, placed lengthwise, equal to height of load, used to protect product from rubbing against beam.
E	Use all cables.	Cables: 3/8 in. diameter, 8,800 lb minimum breaking strength. Winch assemblies must be equipped with a device to maintain tension. Prior to tightening, there must be a minimum of 2 1/2 wraps of cable around the winch drum. When practical, all cables must be used and must be free of kinks and tangles. Tension to be applied with the use of an 18 in. bar. Cables shall be secured to A-frame in slot nearest to top of package.
F	As required.	Unitizing bands: Type 1A, Grade 4 strapping. Place two straps longitudinally to encircle both top and bottom pallets next to void when there is an incomplete top layer.
G	As required.	Encircling bands: Type 1A, Grade 4 strapping. Place two straps laterally to extend the width of car encircling pallets (top and bottom) on both sides of car on packages next to void when there is an incomplete top layer.

Notes and Additional Requirements:

1. Pallet material and construction must be substantial and suitable for transporting product to destination.
2. All piles in the same layer must be of equal height and tightly stowed.
3. Each pile consists of bundles layered and stacked on a pallet. Layers within each unit must be alternately rotated to interlock the stack.
4. Piles must be tight against each other lengthwise.
5. Piles must be placed tight against A-frame to prevent loosening of cables.
6. Voids must be kept to a minimum and as close as possible to center of load, and filler material applied to make solid load, bulkhead to bulkhead.
7. Inflatable dunnage may be used to fill longitudinal voids of 12 in. or less. See Section 1, General Rule 12.

Reference the General Rules in Section 1 of the *Open Top Loading Rules Manual* for additional details.

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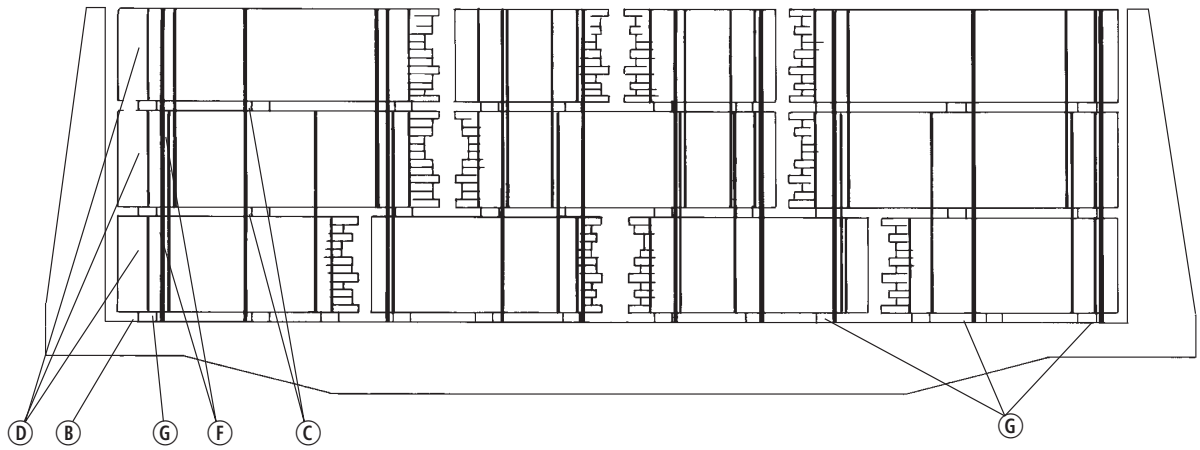
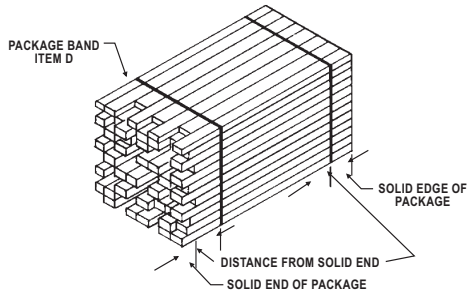
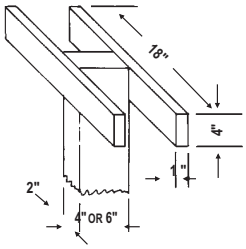
Fig. 49 (Rev. 9/94)
(New 10/81)

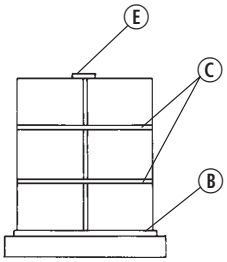
LUMBER, HARDWOOD, PACKAGED, ROUGH AND/OR DRESSED, TREATED OR UNTREATED, 6 FT LONG AND OVER, 2 IN. × .044 IN. HIGH TENSION BANDS—BULKHEAD FLATCARS, WITH CUSHIONED UNDERFRAME







DETAIL ITEM E



END VIEW

Item	No. of Pcs.	Description
A		Vacant.
B	2 per package 8 ft long or less. 3 per package over 8 ft.	Bearing pieces: floor bearing pieces on cars not equipped with permanent bearing pieces must be of equal height, preferably rough. Minimum size 2 in. × 4 in. Width must be 2 in. greater than height. Length must be equal to width of car floor between inside faces of stake pockets and must be in one piece. Laminated bearing pieces are not permitted. For packages 8 ft long or less, locate approximately 18 in. from each solid end of package. For packages over 8 ft long, locate end bearing pieces approximately 24 in. from each solid end of package and others equally spaced between.
C	2 per package 8 ft long or less. 3 per package over 8 ft long. 4 per package over 16 ft long.	Separators: all separators in same layer separation must be of equal height, preferably rough. Minimum size 2 in. × 4 in. Width must be 2 in. greater than height. Length equal to width of load but must not extend beyond the width of the car floor and must be in one piece. For packages 8 ft long or less, locate approximately 18 in. from each solid end of package. For packages over 8 ft long, locate end separators approximately 24 in. from each solid end of package and others equally spaced between. Separators must be placed flat across the top of the bottom and intermediate tiers.
D	2 per package 16 ft long or less. 3 per package over 16 ft.	Package bands: 3/4 in. × .029 in. high tension bands, locate approximately 12 in. from each solid end of package and the other, when used, at center of package. For softwood or lumber, 5/8 in. × .020 in. package bands may be substituted with approved non-metallic strapping as permitted in General Rule 19 of Section 1.