

K1 KAPTIVE BEAM SYSTEM

INSTALLATION & MAINTENANCE INSTRUCTIONS

LOADING CAPACITY

Load capacity ratings are based on an evenly distributed static load:

To protect against overload conditions, Kinedyne recommends that no more than 1,500 LBS per pallet is loaded on any given 3 or 4 beam deck position.

DECKING Working Load Limits:

Standard Beam	2200 lbs	1000kg
Heavy Duty Beam	3000 lbs	1360 kg
Wide Flange Beam	3335 lbs	1550 kg

SHORING Working Load Limits:

Standard Beam	1500 lbs	680 kg
Heavy Duty Beam	1500 lbs	680 kg
Wide Flange Beam	Not for Shoring	Applications

TRAILER LAYOUT

- Determine the track layout in the trailer.
 - Track must be secured to a solid trailer structure, such as vertical posts or through the walls of composite/plate trailers. The structure must be able to support the weight of the loaded beams applied through the attachment fasteners.
 - Standard track length of 84" will work with scuff plates up to 24" tall in 108" high trailers.
 - Contact Kinedyne to develop a layout for your specific needs.
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FASTENER SELECTION AND TRACK INSTALLATION

- Place the top of the track as close to the ceiling as possible. Center the track over the vertical trailer post or place it directly on the composite/plate trailer walls.
- **Sheet/Post Trailers:** Track must be installed directly to the post using the center attachment holes. Use Ø1/4" fasteners and 6" maximum spacing between fasteners. Using the holes on the track centerline as a guide, drill through the trailer post and install fasteners. The liner panels (sheets) may be attached to the track flanges. See **TABLE A** for recommended fasteners.
- For sheet and post installations, ensure there is room below the bottom of the track to install and remove the Kaptive Beams. Minimum Clearance to allow for Head removal will be 4.25"
- **Composite/Plate Trailers:** Install fasteners in the track flanges only through the trailer plate (**FIGURE 3**). Fastener maximum spacing is 6".

Track Configuration	Installed Directly To Vertical Post	Installed Over 1/4" Liner Into Vertical Post	Composite/Plate Trailers
Single Row Track	MGLP-R8-10	SSPQ-O8-14	MGLP-R8-10 (center) MGLP-R8-6 (flange)
Double Row Track	MGLP-R8-6	MGLP-R8-10	MGLP-R8-6

TABLE A – RECOMMENDED INSTALLATION RIVETS

- ❖ **NOTE:** MGLP Rivets are Huck Magna-Lock structural blind rivets. SSPQ Rivets are Cherry Textron structural blind rivets. Other fasteners of equal or higher strength may be used if the head height does not exceed 0.125". Rivet grip length must be determined using track thickness, post thickness, liner sheet or composite/plate thickness. Customer should check rivet availability and determine necessary rivet grip length before installation.

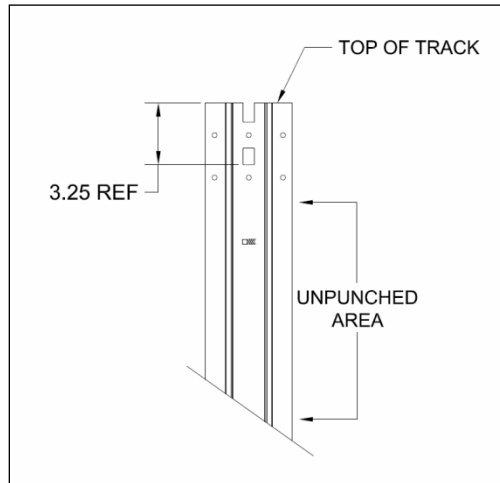


FIGURE 2

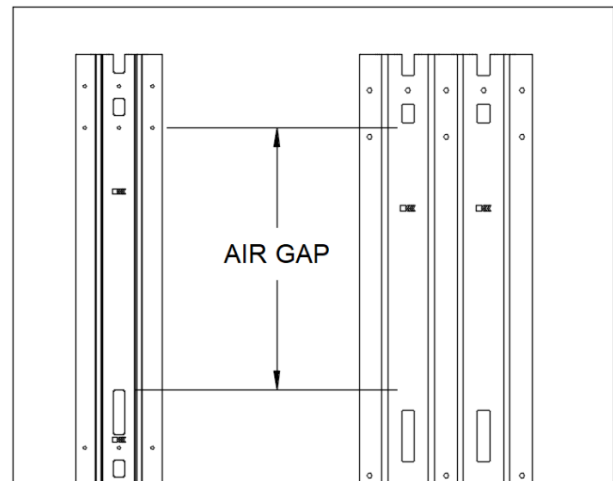


FIGURE 3

KAPTIVE BEAM TOP BEAM STOP INSTALLATION FOR TRACK UNDER THE ROLL UP DOOR

KINEDYNE P/N 80169

1. Insert the Top Beam Stop *behind* the Kaptive Beam Track slot (**FIGURE 4** and **FIGURE 5**).
2. Align holes on Top Beam Stop and Kaptive Beam Track.
3. Use $\text{Ø}1/4\text{'}$ -20 X $1/2\text{'}$ L screw (P/N 10005062) to secure Kaptive Beam Track to Top Beam Stop.
4. Torque to 80-100 IN-LBS (min-max).

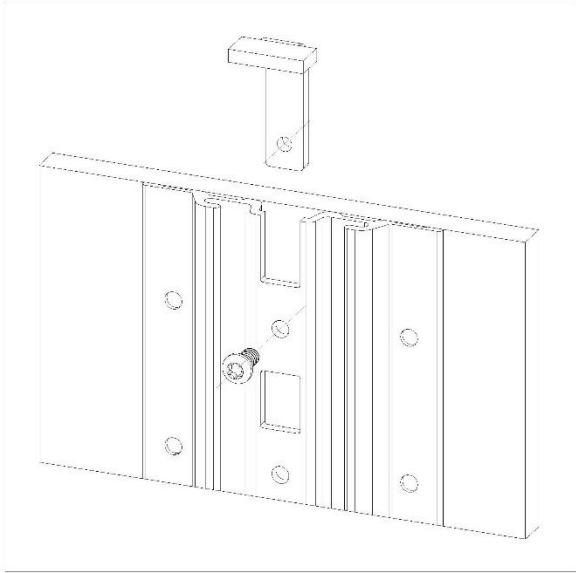


FIGURE 4

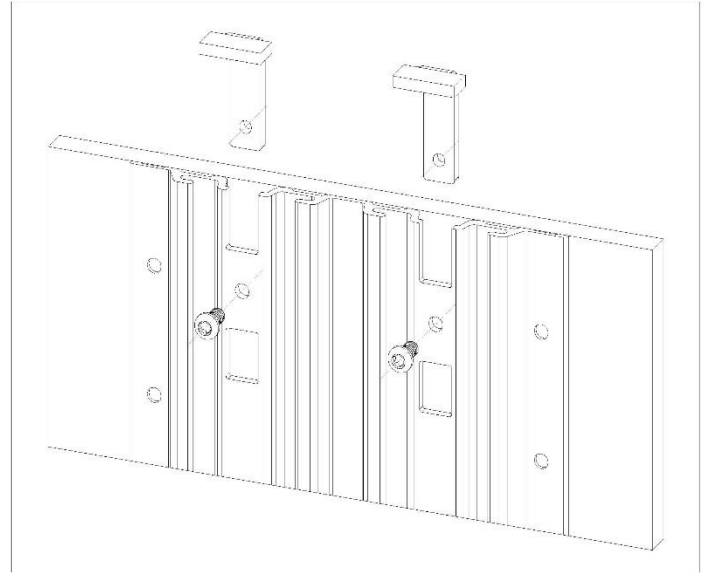
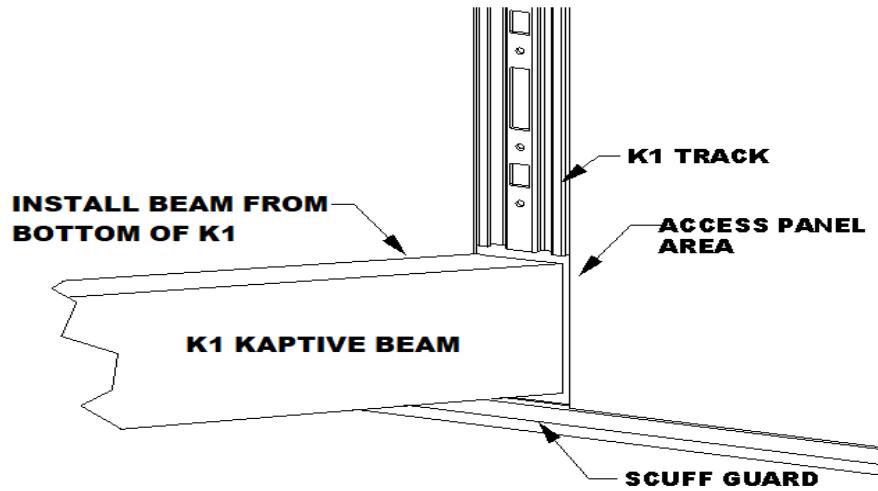


FIGURE 5

FIGURE 6



 **KINEDYNE**[®]
The Cargo Control *People!*[™]

Kaptive Beam End Cap

Installation:

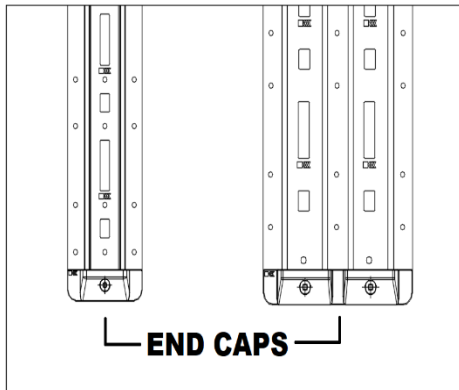
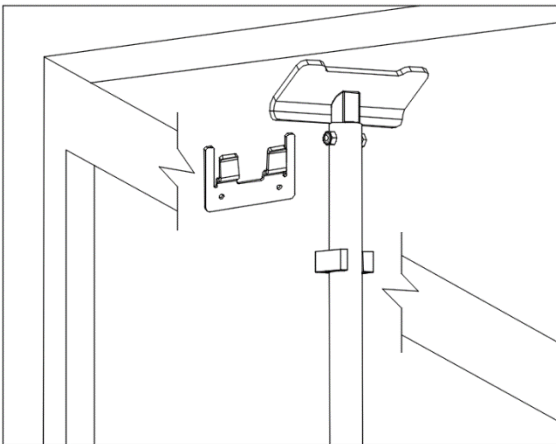


FIGURE 8

INSTALLATION OF BEAM RELEASE POLE HANGER, RELEASE POLE AND INSTRUCTION LABEL



Install the 80117 Release Pole Hanger

Inside the rear door and 84" above the floor.
Release pole can be stored for easy access
Instruction Label has an adhesive backing and should be attached To the inside wall of each trailer near the rear door.

STORAGE OF BEAMS:

- Raise beam(s) to top of track using release pole.
- Ensure the keepers engage track slot.

MAINTENANCE INSTRUCTIONS

LUBRICATION:

- The track is lubricated at the factory during manufacturing. Lubricate track with light machine oil as necessary.

- Lubricate moving components of end fittings with light machine oil as needed.

INSPECTION:

- Periodically inspect beams and components for damage.
 - Repair or replace as needed to ensure correct function.
 - Periodically, inspect function by running beams up and down track
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 **WARNING**

- The K1 Kaptive Beam System is intended to be used by qualified, trained personnel in accordance with applicable load securement standards.
 - Refer to all applicable Federal, State, Provincial and industry regulations for load securement requirements.
 - Improper use may result in severe personal injury or death and/or damage cargo.
 - Do not exceed Working Load Limit (WLL).
 - Do not attempt to position beams while loaded.
 - Ensure both keepers are fully latched into track slots.
 - Raise and lower beams manually, do not use a fork lift.
 - Do not rest beams on captivation brackets.
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 **CAUTION**

- Kinedyne recommends the actual pallet loads supported by the beams do not exceed 50% of the WLL to allow for dynamic loading during transit.
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- Dynamic loads must be considered to avoid possible overload of system.
 - Additional load derating must be considered depending on expected transit dynamics.
 - Do not overload deck as it may create a top heavy, unstable trailer.
 - To protect against overload conditions, Kinedyne recommends that no more than 1,500 LBS per pallet is loaded on any given 3 or 4 beam deck position.
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