

WAGON TYPE	COMMODITY
YEA (fitted with rail frames)	Stock Rail: 54m 56E1/60E2 108m 56E1/60E2 183m 75kg Conductor Rail
<p>Carrying Capacity: Gross Laden Weight: 88 tonnes Carrying Capacity: 54.8 tonnes. Tare: 28.4 tonnes. For exact loading limits see individual wagon on TOPS.</p>	
<p>Load Positioning: Please refer to individual table/diagrams for respective rail lengths and wagon types.</p> <p>Wagons may be loaded with up to 3 tiers of CEN 56E1 or CEN 60 E2 type rail. Conductor rail may only be loaded up to 2 tiers. Each tier may be loaded with 12 rails.</p> <p>Part loads are permitted providing each tier is evenly loaded and each rail bay consists of 4 rails. It is not permitted to have voids in lower positions. Different rail types may not be loaded within the same tier, but each individual tier may be loaded with different rail types.</p> <p>Rails shall protrude through the end rail frame by a minimum of 1500mm.</p> <p>Rails must not overlap one another.</p> <p>A minimum 50mm under-clearance shall be maintained between the foot of the rail and the upper most part of the wagon in the headstock area.</p> <p>There are two types of spreader beam: White are intermediate beams that fit into the rail frame and support the rails. Yellow coloured beams are top beams that engage with the rail frame.</p> <div data-bbox="229 1485 1437 1924" data-label="Image">  </div> <p>The spreader beams have bollards fitted on their underside that engage with the rail heads. These devices can only accommodate 4 rails. Ensure all the rail ends are positioned in the acceptable safe loading area painted</p>	

blue as shown in the diagrams.
 Only rails of the same length may be loaded.
 Test piece rails may only be loaded in upper tiers of the centre bay position.
 Approved rail lengths:

Wagon	Rail (m)	Formation	Rails	Beams*	Diagram
YEA	108	5	36	F	6
	183	9	20	F/B/C	7
	54	3	36	F	8

* Beams Positions: F = Frame B = Above Buffers C = Centre of Wagon

Stanchions:

These wagons are not fitted with stanchions.

Bolsters:

All load bearing bolsters to be of a uniform height and in good condition.
 The non-load bearing bolsters adjacent to the ends of the rails may have to be removed as detailed in the diagrams.

Dunnage:

Intermediate and top spreader beams. Spacer collar as required if loading less than three tiers.

Unsecured Loads:

Not permitted.

Securing Equipment:

Each wagon is fitted with two rail support frames.

The outer wagons have the frames positioned depending on the rail length being loaded (see diagram).

The inner wagon frames are positioned inside the bogie centres.

Spreader beams are to be positioned at right angles to the rail; any damaged or bent beams are not to be used. When loading Conductor type rail spreader beams are additionally positioned between tiers of rails above the buffers and at the centre of the wagon.



It is imperative that the correct orientation of the spreader beam is observed, with the rail being loaded on the top flat side of the spreader beam, the bottom side with rail guides must be positioned between the heads of the rails loaded directly underneath.

The upper spreader beam (painted yellow) is secured in position by 4 pins.

The pins are inserted through the frame and secured by an 'R' clip, both the pin and clip are secured by a chain of a specified length.

The lower position holes are for CEN56E1 type rail and the upper holes for CEN60E2 type rail.

When the train is empty the spreader beams are positioned in the frames, ensure the yellow beam is placed on top to keep all beams captive in the frames.

Special attention not to mix and match the

spreader beams from IGA type wagons due to them being a longer length.

When loading either a single tier or 2 tiers additional spreader beams and spacers are used in the rail frames as follows:

For 3 tiers:

Each frame has 2 x white beams and 1 x red beam.

For 2 tiers:

Additional spacer, 1 x inverted red beam, 1 x inverted white beam, 1 x white beam plus 1 x white beam between tiers per frame.

For 1 tier:

Additional spacer, 1 x inverted red beam, 1 x inverted white beam and 3 x white beams.



Voids:

Empty bays are permitted. Each bay shall have a minimum of 4 rails

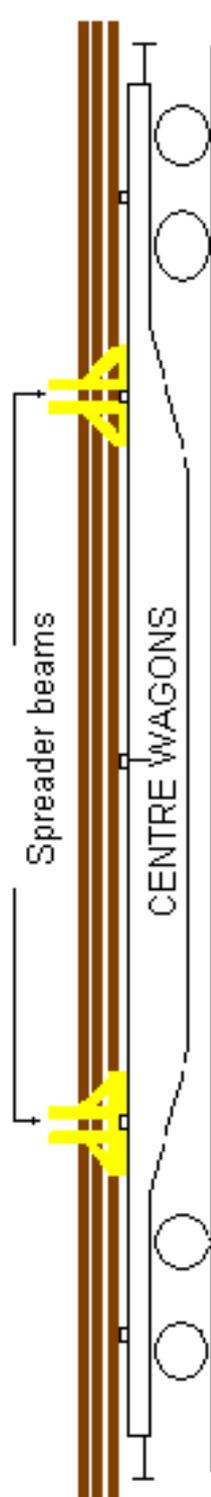
Doors/Sides:

Not applicable

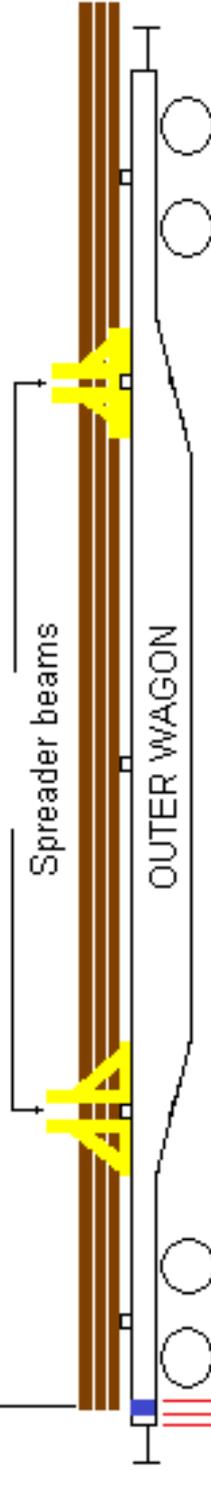
Special Equipment: Intermediate and top spreader beams, spacer collar.
Competency: LE SRC
Safety: Ensure P.P.E. is worn at all times. Please note - The YEA rail sets run as Load Examined and not as Exceptional Load so does not require an RT3973/EXL form.

Diagram 6

Loading arrangement for 108m rails loaded over YEA Stock Rail Carriers



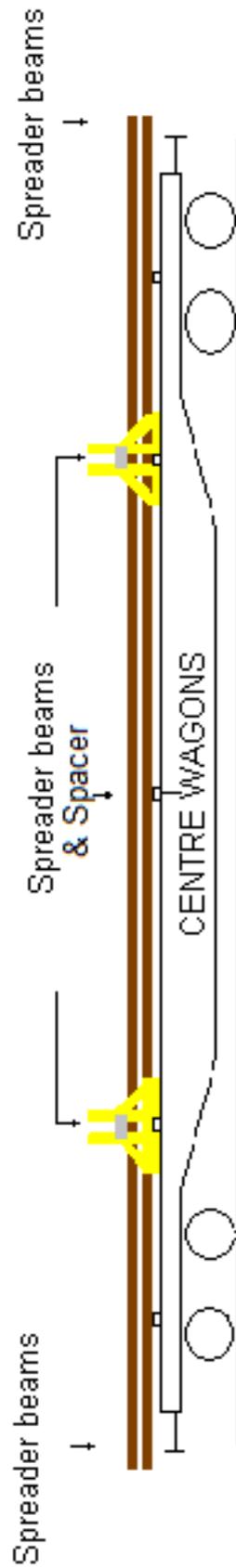
NOMINAL POSITION OF RAIL ENDS WHEN ON STRAIGHT TRACK AND BUFFERS ARE TOUCHING BUT UNCOMPRESSED



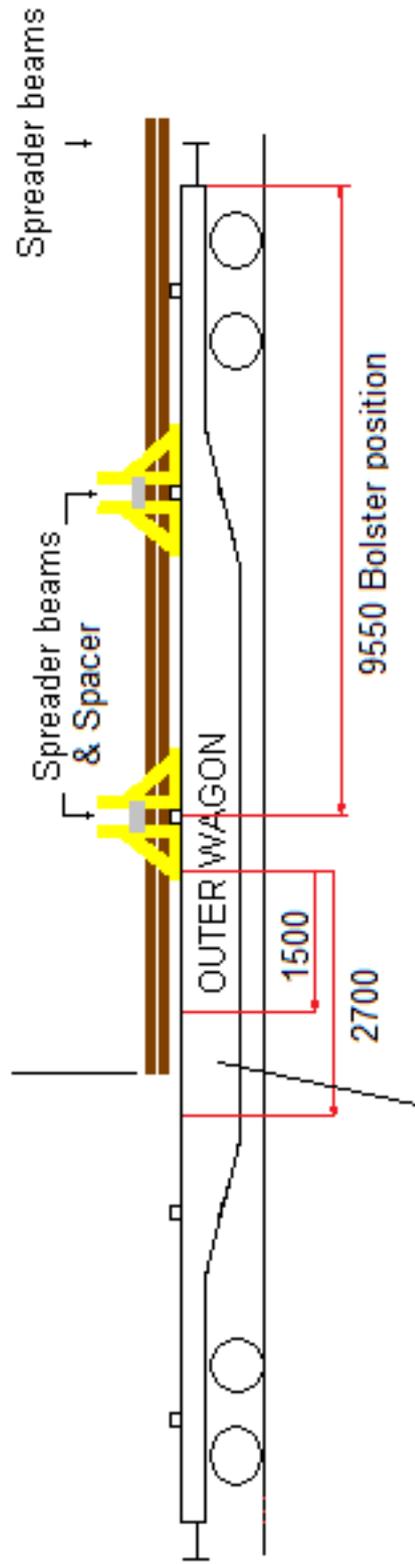
800mm

300mm BLUE LINE INDICATES ACCEPTABLE SAFE AREA FOR RAIL ENDS

Diagram 7 183m Conductor Rail YEA Type Wagons



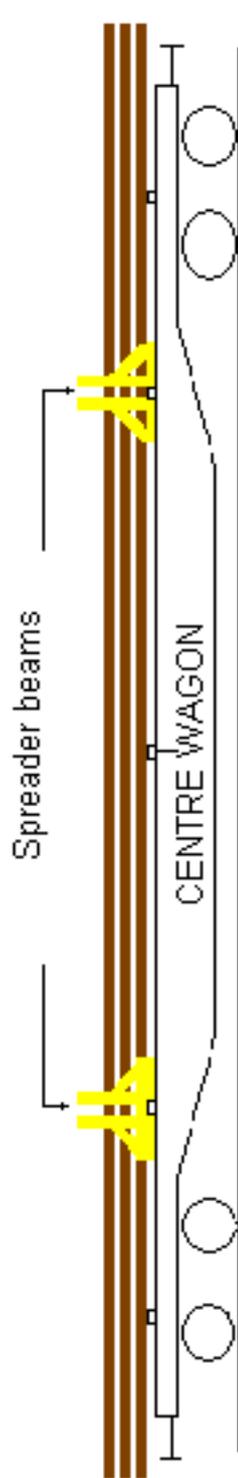
NOMINAL POSITION OF RAIL ENDS WHEN ON STRAIGHT TRACK AND BUFFERS ARE TOUCHING BUT UNCOMPRESSED



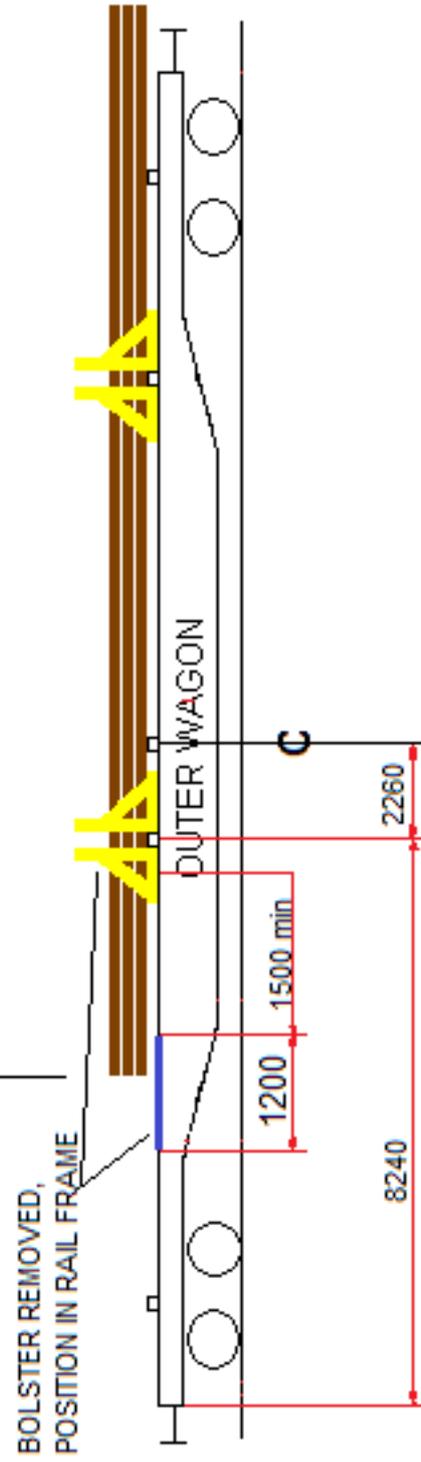
1200 ACCEPTABLE SAFE AREA FOR RAIL ENDS

54m CEN 56/60 Rail Loaded on YEA type Wagons

Diagram 8



NOMINAL POSITION OF RAIL ENDS WHEN ON STRAIGHT TRACK AND BUFFERS ARE TOUCHING BUT UNCOMPRESSED



BOLSTER REMOVED, POSITION IN RAIL FRAME