

CASE 10: FULLY BLOCKED LOAD WITH RATED CURTAINS

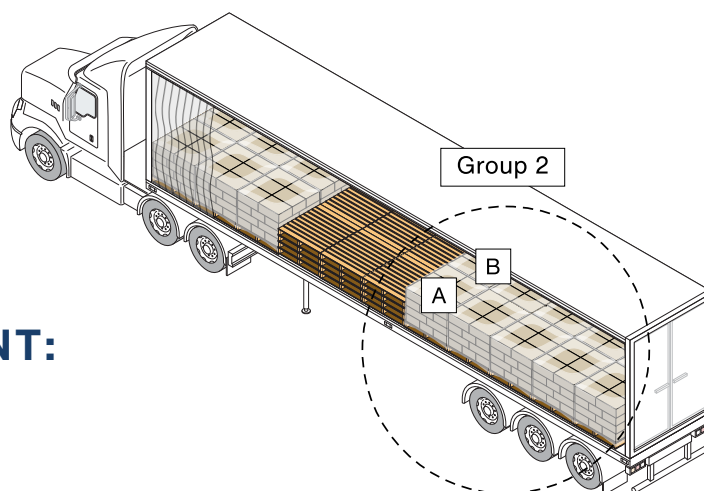
Load:

- Palletised general freight.
- Pallet A weighs 600 kg and Pallet B weighs 800 kg.
- There are 5 rows of pallets in Group 2 – *Figure 503*.

Vehicle:

- A prime mover and semitrailer with rated side curtains.

Figure 503 Palletised general freight – rear portion



IDENTIFY THE LOAD, VEHICLE AND EQUIPMENT:

Step 1:

Which part of the load do I want to restrain?

I want to restrain the load of pallets at the back of the truck (Group 2 in *Figure 503*).

Step 2:

What vehicle will I use?

A prime mover and semitrailer with rated side curtains.

CHOOSE A SENSIBLE RESTRAINT METHOD:

Step 3:





Is the load blocked forwards?

Yes – this part of load is fully blocked in the forward direction, up to 0.8 g.

- ✓ Check the load is tightly packed and that the sum of any gaps along the trailer (front to rear of the load) is less than 200 mm.

Step 4: Is the load blocked sideways?

To check if the load is blocked sideways you need to know the **side curtain rating capacity** and the **load mass**.


-  Check the sum of any gaps across the load is less than 100 mm.
-  If the gaps are too big you need other restraints or to fill the gaps.
-  If unsure about the curtain rating, ask the manufacturer.
-  For more information on using side curtains see the [Vehicle and Equipment module](#).

Step 5: Is the load blocked rearwards?


Yes – the gap at the rear of the load is less than 200 mm and the blocking device is rated to 0.5 weight of the whole load.

Step 6: Do I need extra restraints?

No – The load is effectively restrained in all directions.


-  If the load is a multi-drop load the restraint methods are likely to change during the journey as parts of the load are delivered, creating gaps. See [Case 12](#) for more information on multi-drop loads.

Side rating capacity – per pallet width


-  If your rating capacity is per pallet width, you need to know the mass of one row of pallets. This is the pallet width.

For this example, the mass of a pallet width is **1,400 kg** (Pallet A 600 kg + Pallet B 800 kg).

If the rating capacity per pallet width is greater than **1,400 kg** then the load is **BLOCKED SIDEWAYS**.


-  If your curtains do not have a sufficient rating capacity, you will need extra restraints to meet the sideways forces.

Side rating capacity – per pallet space

-  If your rating capacity is per pallet space, you need to know the mass of the heaviest pallet in the row. This is the pallet space.

For this example, the mass of the heaviest pallet is **800 kg** (Pallet B).

If the rating capacity per pallet space is greater than **800 kg** then the load is **BLOCKED SIDEWAYS**.

-  If your curtains do not have a sufficient rating capacity, you will need extra restraints to meet the sideways forces.