

The diagram illustrates the assembly of the LED strip into four different configurations, each labeled with a part number:

- 4149-LRS:** Shows the LED strip with a mounting bracket and a diffuser.
- 4159-LRS:** Shows the LED strip with a mounting bracket and a lens.
- 4154-LRS:** Shows the LED strip with a mounting bracket and a lens.
- 4155-LRS:** Shows the LED strip with a mounting bracket and a lens.
- 4064-LRS:** Shows the LED strip with a mounting bracket and a lens.

Technical drawing of a two-person shower cabin layout. The drawing includes a plan view and a cross-section view.

Plan View:

- The shower cabin is rectangular with a width of 280 - 300 mm.
- The depth is labeled as x .
- The distance between the two shower stalls is labeled as y .
- The distance from the wall to the first shower stall is labeled as b .
- The distance between the two shower stalls is labeled as x .
- The distance from the second shower stall to the wall is labeled as b .
- The total width is labeled as $260 - 270$.
- The shower stalls are labeled with the number 4165.
- The shower door is labeled with the number 4153.
- The shower pan is labeled with the number 4149-LRS.
- The shower pan is labeled with the number 4155-LRS.

Cross-section View:

- The shower pan is labeled with the number 4149-LRS.
- The shower pan is labeled with the number 4155-LRS.
- The shower pan is labeled with the number 4153.
- The shower pan is labeled with the number 4165.
- The shower pan is labeled with the number 4155-LRS.

Legend:

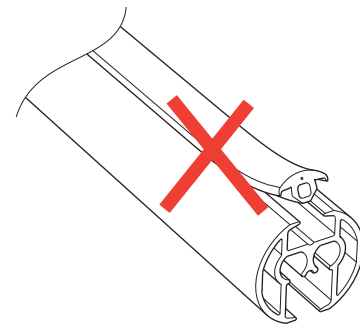
- 4149-LRS
- 4155-LRS

G-RAIL®

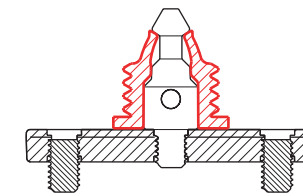
12/2003



Inspired and developed by Goelst, this unique, patented system meets health care requirements for anti-ligature privacy rails. Designed to activate at an applied load of 35 kg +/- 2 kg, the **Load Release System** helps to protect against and reduce the risk of attempted patient self-harm. This system is designed for use with G-Rail 4100 and 5100.



To further prevent risk of ligature, we advise not using dust cover.



Specification Guide

Accessories:

Basic set 4159-LRS (for 4100) or 5159-LRS (for 5100).

Installation:

4100: ceiling fixing with mini suspension hanger 4154-LRS, suspension hanger 4155-LRS or strut hanger 4064-LRS. Wall fixing with wall support 4149-LRS. 5100: ceiling fixing with mini suspension hanger 5154-LRS, suspension hanger 5155-LRS or strut hanger 5064-LRS. Wall fixing with wall support 5149-LRS.

System details

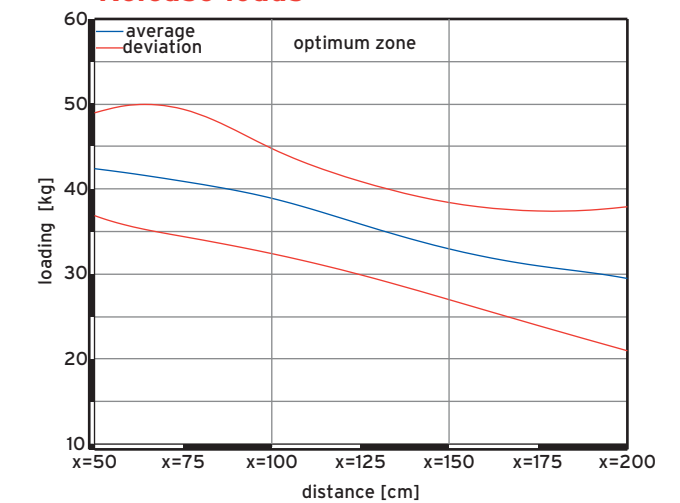
This system allows the rail to release in a controlled manner when incorporated with privacy rail, shower rail or garment hanging rail. The Load Release System allows for normal rail use, but will separate at the Load Release Suspension Points when the calibrated control load is reached.

- continuous statical load up to 5 kg possible
- controlled release at peak load of 35 - 45kg

Maintenance and inspection

- Due to the ageing process of polymers, the effects of peak loading and or possible mis-use, we advise to check each Load Release Suspension Point for defects every 12 months from date of installation. We further recommend that all 4149-LR-R receiver units are replaced within 4 years of installation.
- It is advised that the LRS receiver unit is replaced immediately after the system has been activated.

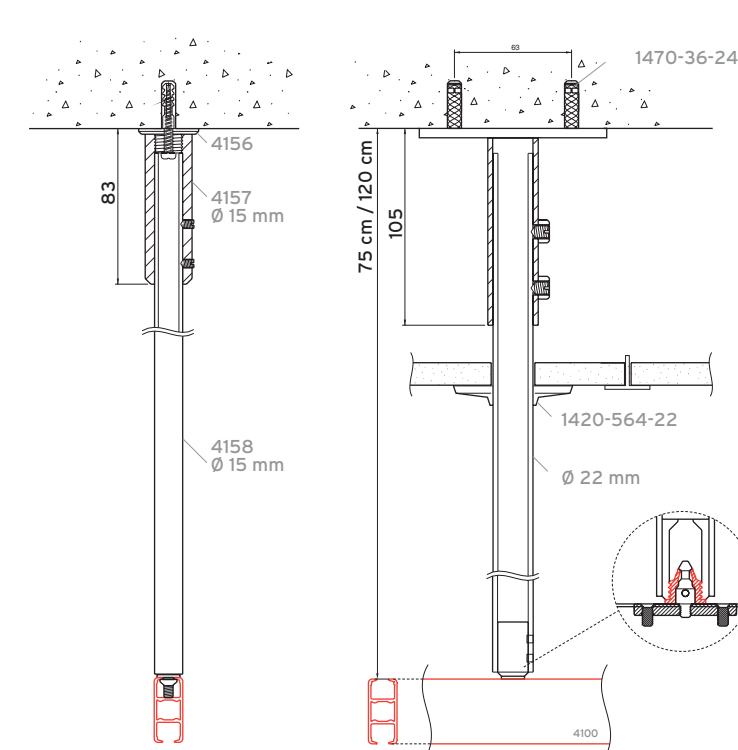
Release loads



In the above graph, the release load is shown with increasing fixing centres (x). In the optimum zone, the release load is at the desired levels with only a small deviation from these values being expected. At fixing centres greater than 150 cm, the release load becomes less predictable.

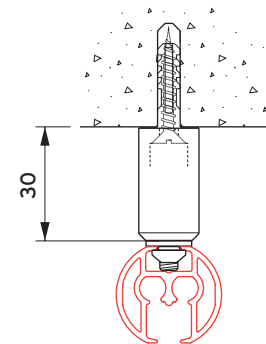
LRS > Anti-ligature load release system for privacy rail.

Installation

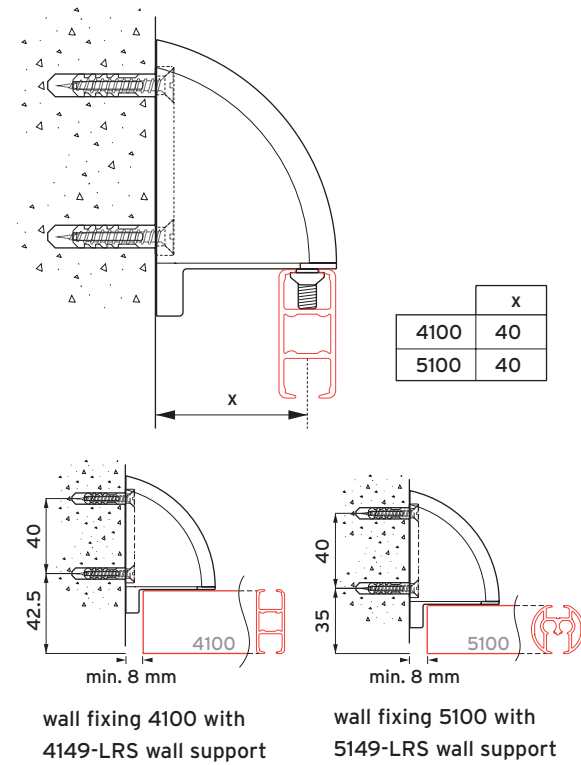


ceiling fixing 4100 with suspension hanger 4155-LRS

ceiling fixing 4100 with strut hanger 4064-LRS



ceiling fixing 5100 with mini hanger 5149-LRS



wall fixing 4100 with 4149-LRS wall support

wall fixing 5100 with 5149-LRS wall support

For complete system analysis refer to technical documentation (available on request).

Fixing points and release loads

Fixing advice for 4100 rail with Load Release System suspension hangers and wall supports:

In the diagram below, privacy rail 4100 is shown fixed with suspension hangers and wall supports. The release loads are given in red and the measured deviation is given in black. For further fixing recommendations, please refer to the Load Release System Technical Report which is available on request.

