

# TAKI<sup>®</sup> – Fixing System



## Installation Manual





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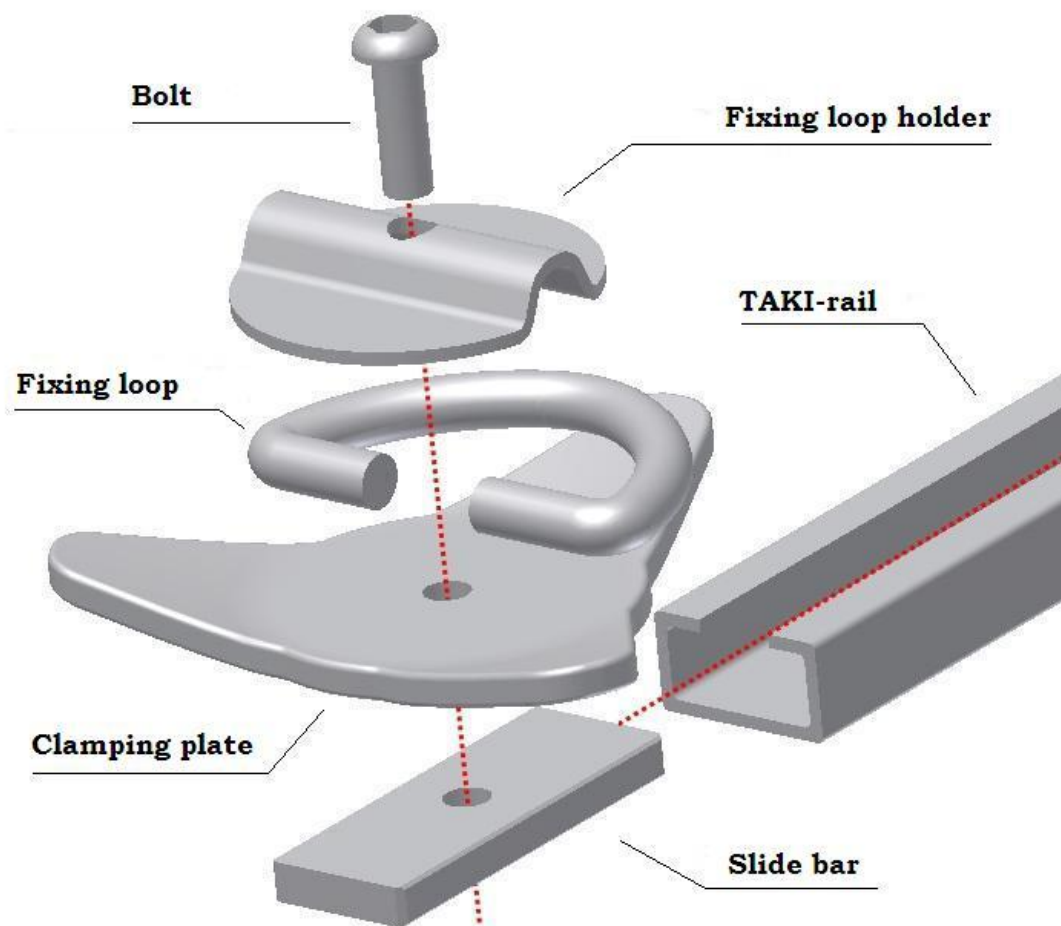
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## 1 Description and intended use

TAKI®-Fixing System has been developed to lash the load in vans, trailers and lorries.

TAKI-Fixing System is fixing point in TAKI®-I-rail which can be moved portable. Load can be lashed with hooks and straps. TAKI®-rail will be attached to stable location in van or trailer e.g. bodywork.



PICTURE 1 Parts of TAKI®-Fixing System

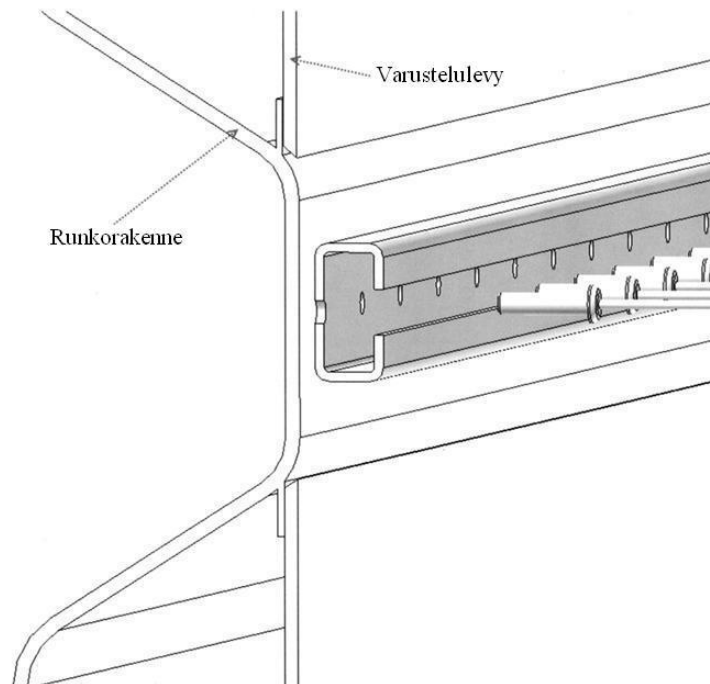


## 2 Load resistance

There has been provided a law concerning lashing the load in vehicle. "Decision of the Ministry of Transport for vehicles load baskets, vehicles loading and lashing the load 14.12.1982 / 940". According to that when the vehicle carrying capacity is under 3,5 tons should its nominal strength for lashing points in the wall structure be at least 2,5 kN. Lashing point should last two times its nominal strength without breaking so that the strength infected for lashing point in the wall can't deviate no more than 30° from the wall level. TAKI®-Fixing System has been tested in VTT and in HAMK and it has proved its strength by passing the tests.

## 3 Installation of TAKI®-rail

The main thing is to pay attention for choosing the right place to install TAKI®-rail. The TAKI®-rail should be installed to vehicles or trailers bodywork or some other sustainable part by using screws or blind rivets. You have to attach TAKI®-rail from its every hole. Installation of the TAKI®-rail is shown in picture two (2).

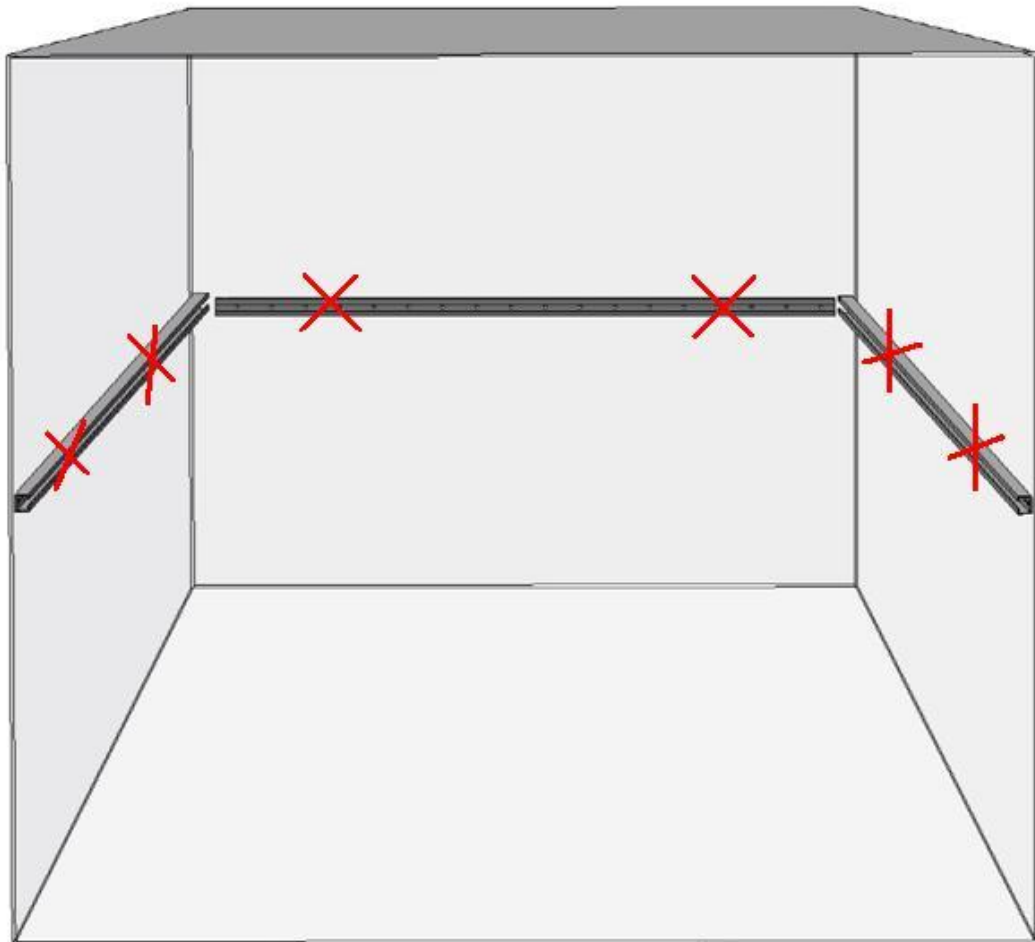


PICTURE 2 Install TAKI®-rail from its every hole e.g. vehicles bodywork



Decision of the Ministry of Transport for vehicles load basket, vehicles loading and lashing the load (chapter 2) 9 § provide that there has to be at least 6 pieces of lashing points. Lashing points has to locate symmetrically so that it is possible to lash the load safely. This decision gives the limits for installation which has to be maintained. Picture three (3) gives you an example of TAKI®-rail proper installation.

Red crosses in the picture three (3) shows possible places for TAKI®-clips which will fill up regulation of the law. Of course you can install many TAKI®-rails on top of each other and put several TAKI®-clips in them.



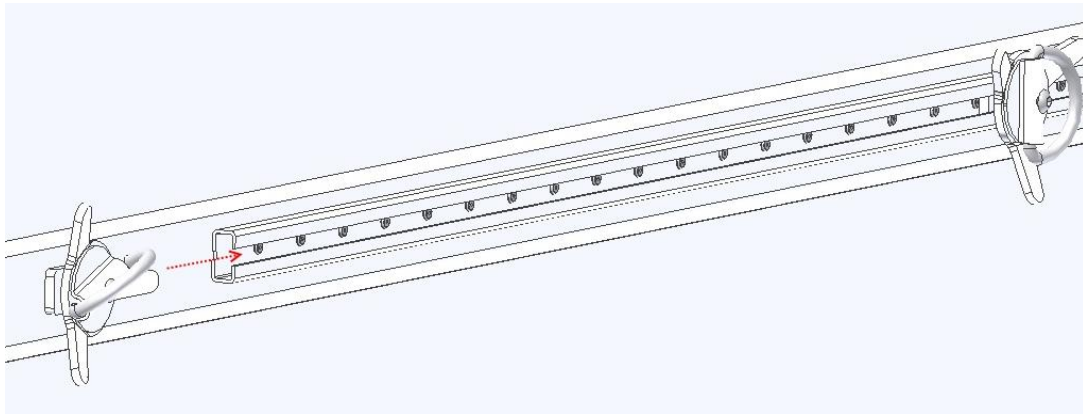
*PICTURE 3 E.g. how to install TAKI®-rail to load basket*



#### 4 Installing TAKI®-clip to the rail

Install TAKI®-clip to the TAKI®-rail as shown in picture four (4). To open TAKI®-clip unscrew the clamping plate as much as you need to put the slide bar in to the TAKI®-rail. After putting the slide bar into the rail put the TAKI®-clip in right place and tighten it.

ATTENTION! When clamping plate is already screwed open do not try to open it more. This could damage the TAKI®-clip.



*PICTURE 4 Installing TAKI®-clip to the TAKI®-rail*