

# SOLVER.

## PRODUCT CARD

Short name

**RAP-KL-(100)**

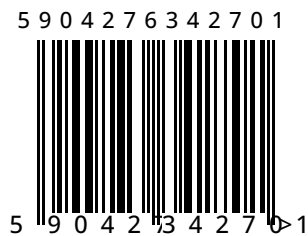
Full name

Top wedge L for RAPTOR pedestal

### BASE DATA

|               |                 |
|---------------|-----------------|
| Product group | Raptor          |
| Application   | • terrace joist |
| Code          | 106.040111      |

EAN



### TECHNICAL DATA

|                                   |               |
|-----------------------------------|---------------|
| Minimum height                    | 0 mm          |
| Maximum height                    | 0 mm          |
| Regulation type                   | stepped       |
| Total dimension - length          | 82 mm         |
| Total dimension - width           | 59 mm         |
| Total product dimensions - height | 83 mm         |
| Head diameter (top plate) Ø       | 0 mm (46 cm2) |

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Solver SP. Z O.O  
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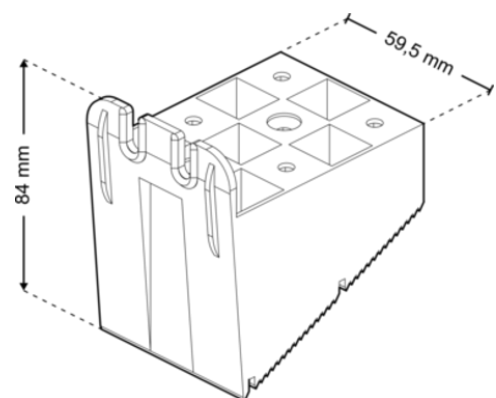
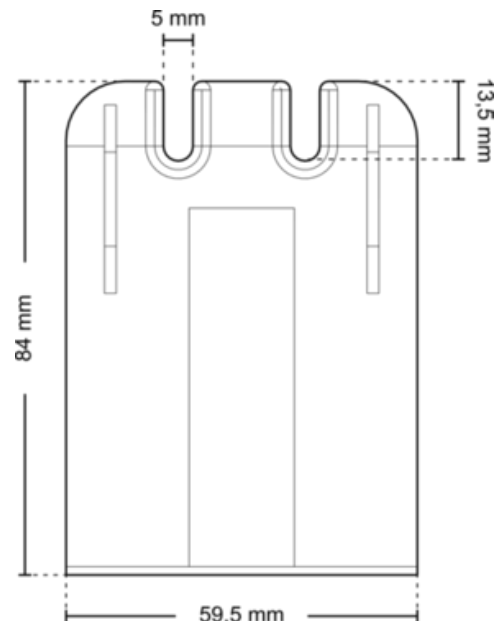
Wenus 73A,  
80-299 Gdańsk, Poland

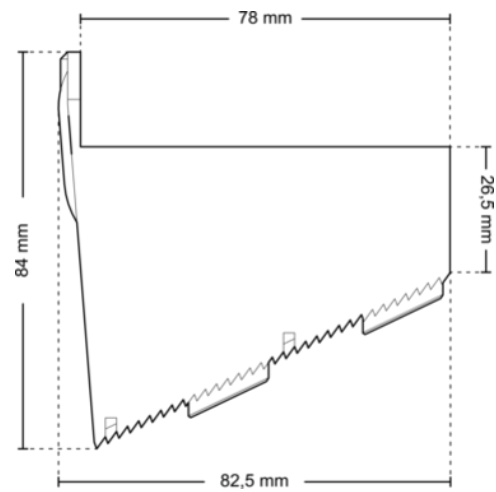
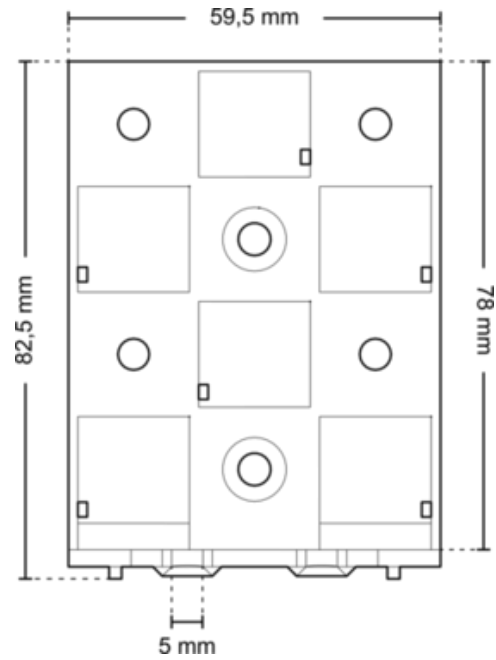
|                                                                                                                                                                                          |                                                     |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------|
| Base diameter                                                                                                                                                                            | Ø 0 mm (0 cm2)                                      |
| Weight                                                                                                                                                                                   | ~0.07 kg                                            |
| Wytrzymałość na obciążenia do                                                                                                                                                            | 1000 kg (10kN)                                      |
| Fire resistance                                                                                                                                                                          | E                                                   |
| Temperature range                                                                                                                                                                        | od -20°C do 65°C                                    |
| Color                                                                                                                                                                                    | black                                               |
| Mandatory warranty                                                                                                                                                                       | Limited 10-year residential and commercial warranty |
| Country of origin                                                                                                                                                                        | Poland                                              |
| Material name                                                                                                                                                                            | Polypropylene - black regrind                       |
| Percentage of recycled material                                                                                                                                                          | 100 %                                               |
| Type of waste                                                                                                                                                                            | • non-hazardous waste - recyclable                  |
| Project type                                                                                                                                                                             | • interior use<br>• exterior use                    |
| <b>What finishing materials can be used</b> <ul style="list-style-type: none"> <li>• hardwood joist</li> <li>• softwood joist</li> <li>• aluminium joist</li> <li>• WPC joist</li> </ul> |                                                     |

**Consists of**  
RAPTOR L Wedge

## CERTIFICATES

Product certified by the Building Research Institute.  
NATIONAL TECHNICAL ASSESSMENT ITB-KOT-2022-2174





## LOGISTICS INFORMATION

| Package         | Quantity Packaging Value | Package weight | Empty package weight | Palett                    | Number of packages on a pallet | Number of pieces on a pallet | Pallet weight | Empty pallet weight |
|-----------------|--------------------------|----------------|----------------------|---------------------------|--------------------------------|------------------------------|---------------|---------------------|
| BOX 600x500x200 | 100                      | 7 kg           | 0.76 kg              | WOODEN PALLET 120x100x220 | 40                             | 4000                         | 312 kg        | 18 kg               |

## Characteristic features

Key features of the RAPTOR series

1. Step-by-step height adjustment in 1 mm increments
2. High load-bearing capacity
3. Adjustable from a low height
4. Wedge-shaped pedestal construction
5. Connection capability using screws
6. Dedicated holes for fixing to the substrate
7. Stable base

Product features:

1. Stepped height adjustment in 1 mm increments
2. High load-bearing capacity
3. Adjustable from low height
4. Wedge-shaped pedestal construction
5. Can be connected using screws
6. Swivel adapter for joist
7. Upper wedge can be split in half
8. Suitable for all outdoor terraces and indoor floors

## Application

Application of raised deck terraces:

The raised deck terrace system finds wide application in modern residential, commercial, and public utility construction. This solution is intended for creating:

1. terraces, balconies, and loggias
2. usable roofs and green roofs
3. recreational areas around buildings
4. pedestrian walkways, decks, and squares
5. spaces above technical installations requiring easy service access.

The system enables quick installation without the use of mortars and adhesives, ensuring free water drainage and ventilation under the entire terrace surface. Thanks to adjustable pedestals and/or joist construction, it allows for leveling slopes and height differences in the substrate.

Raised deck terraces are a particularly recommended solution where the following are important:

1. durability and resistance to weather conditions
2. aesthetic appearance and even surface
3. easy access to the insulation layer and installations
4. possibility of quick modernization or surface replacement

For the construction of raised deck terraces with boards on joists. Used in residential, commercial, and public utility buildings.

## Advantages

Advantages of raised deck terraces:

1. Height and level adjustment – possibility of precise leveling of the surface without the need for screeds
2. Effective drainage – gaps in the terrace drain water to the space under the terrace
3. Easy maintenance – access to installations and substrate without dismantling the entire structure
4. Easy maintenance – access to installations and substrate without dismantling the entire structure
5. Thermal and acoustic insulation – the air layer under the pavers improves user comfort
6. Quick installation and dismantling – possibility of reusing elements when changing the arrangement
7. Durability – resistance to weather conditions and usage loads

Product advantages:

1. High load-bearing capacity

2. Simplicity and universal application under all joists
3. Has holes for screws to connect the upper wedge with the lower one
4. Has side restraints preventing lateral shifting of the wedges
5. Has built-in adapter for joists

## Installation recommendations

A raised deck terrace does not require permanent anchoring to the substrate. Free water drainage and ventilation must be ensured under the entire surface of the terrace. The substrate must be level, stable, and load-bearing. A slope of at least 1.5–2% towards the drainage must be provided. In the case of higher loads, densify the support grid. Level the terrace height by adjusting the pedestals. At building expansion joints, maintain a gap and seal it with flexible elements. Pedestals cannot be stacked on top of each other - meaning the base of the upper pedestal cannot be placed on the top cap of the lower pedestal. The holes in the base are only for stacking pedestals during packaging.

Height adjustment is stepped and is achieved by moving the wedges relative to each other. Each step is a height difference of 1 mm. The minimum compressive strength of the substrate in the case of insulation boards is 200 kPa

## Tools

- Measure - Spirit level - String line or cross line laser - Pencil or construction marker - Mason's rule - Rubber mallet - Work gloves - Safety glasses - Hearing protection - Dust mask - Metal saw blade or jigsaw with metal cutting blade for trimming elements

- Screwdriver with a cross bit for screwing in connecting wedges (optional)

## Recommendations for use

The raised deck terrace is intended for use in accordance with its purpose – as a recreational surface. Do not point-load the pavers (e.g., by placing very heavy objects on a small area). Avoid mechanical impacts that could damage the pavers or the support structure. The terrace surface should be regularly swept, and leaves, sand, and debris that may accumulate in the joints should be removed. At least once a year, check the stability of the pavers and pedestals. After winter or heavy rainfall, check the drainage system for blockages. If looseness or damage is found – perform adjustment or replacement of the elements. If access to the space under the pavers is required (e.g., for installations, drains), they should be carefully lifted using appropriate lifters or lifting tools. If access to the space under the pavers is required (e.g., for installations, drains), they should be carefully lifted using appropriate lifters or lifting tools. In the case of a slippery surface, use anti-slip mats or additional protective coatings, e.g., around the pool.