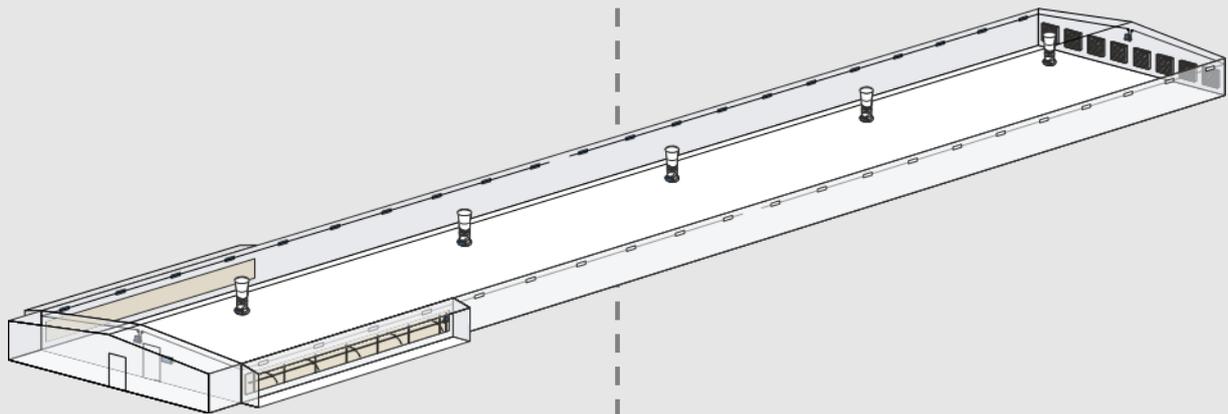


Rack & Pinion tunnel Door System

Technical Info



1 Product Description

The Rack & Pinion system for tunnel openings is a complete solution for making a proper, insulated and sealed door inside a cooling section or directly in the side wall, if no cooling.

It is typically a part of the SKOV Combi-Tunnel system and rarely part of a Tunnel ventilation system.

It is designed for cool room panels, which are 25-50 mm thick.

The Rack & Pinion tunnel door system from SKOV A/S normally consist of the following main parts:

- A** R&P mechanical parts, set
- B** R&P DA 75 tunnel door motor set, 24 V
or R&P DA 75 tunnel door motor set, 230 V
or R&P DA 73 tunnel door motor set, 220 V
- C** R&P flange f/door aluminium 5.5 m Set
- D** R&P H-profile for door, aluminium, 5500 mm
- E** R&P 1" drive shaft 5500 mm set
- F** R&P panel 3000 x 1180 x 50 mm, white
- G** R&P tunnel door frame
- H** Corner frame

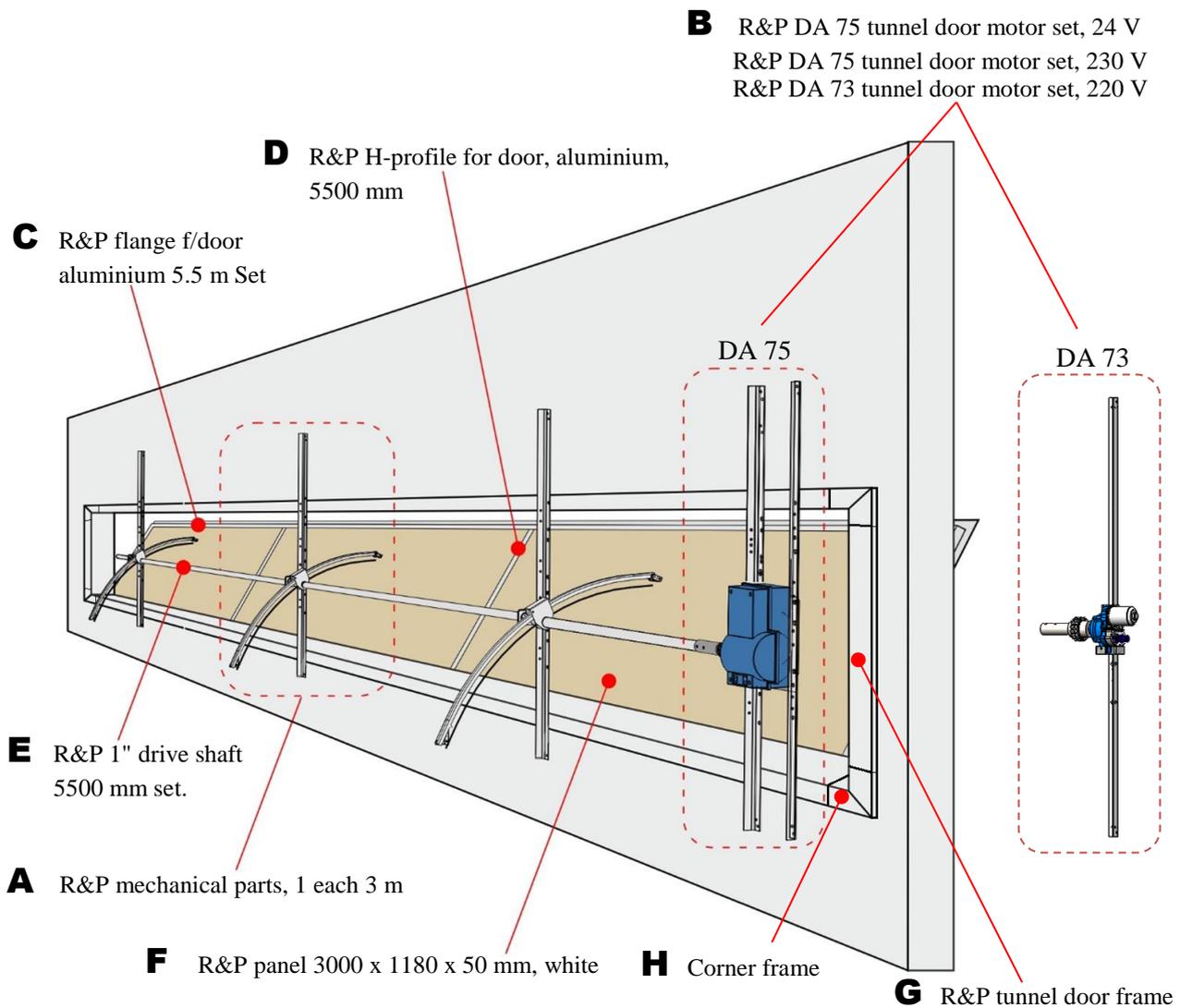


Figure 1: Sketch showing the main parts in the SKOV Rack & Pinion system.

2 Product Survey

Rack & Pinion Tunnel Door System



433288 R&P mechanical parts, 1 each 3 m

"R&P mechanical parts for each 3 meter" include all necessary mechanical parts per 3 meter tunnel door, such as mounting profile, curved rack, pinion house, hinges and various blind rivets, pressure plate, screws and nuts.



433286 R&P DA 73 tunnel door motor set, 220V

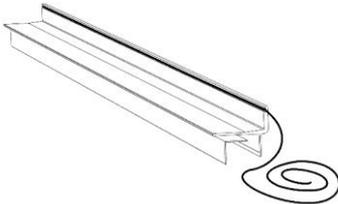
R&P DA 73 can be used for opening the tunnel door in systems with Rack & Pinion, if you do not need potentiometer feed back.



433231 R&P DA 75 tunnel door motor set, 230V

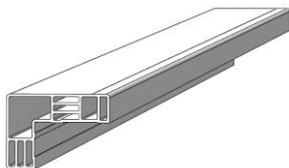
433230 R&P DA 75 tunnel door motor set, 24V

R&P DA 75 can be used for opening the tunnel door in systems with Rack & Pinion.



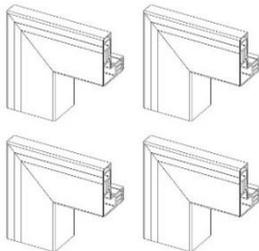
433290 R&P flange f/door aluminium 5.5 m Set

Includes door profile and rubber profile.



433291 R&P tunnel door frame 5500 mm set

R&P tunnel door frame is use to frame the hole of the tunnel opening.



433294 Corner frame 100x100 mm set

The set includes 4 corner frames.

Order 1 set of corner frames per door.

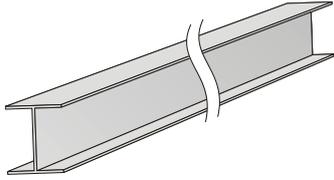
Use together with 433291 to create a complete R&P tunnel door wall.



503101 R&P 1" drive shaft 5500 mm

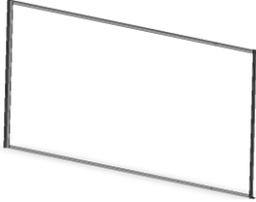
Includes 1" galvanized tube DIN 2440.

Rack & Pinion Tunnel Door System



433213 R&P H-profile for door, aluminium, 5500 mm

Is used to assemble 433244 R&P panels.



433244 R&P panel 3000x1180x50 mm, white

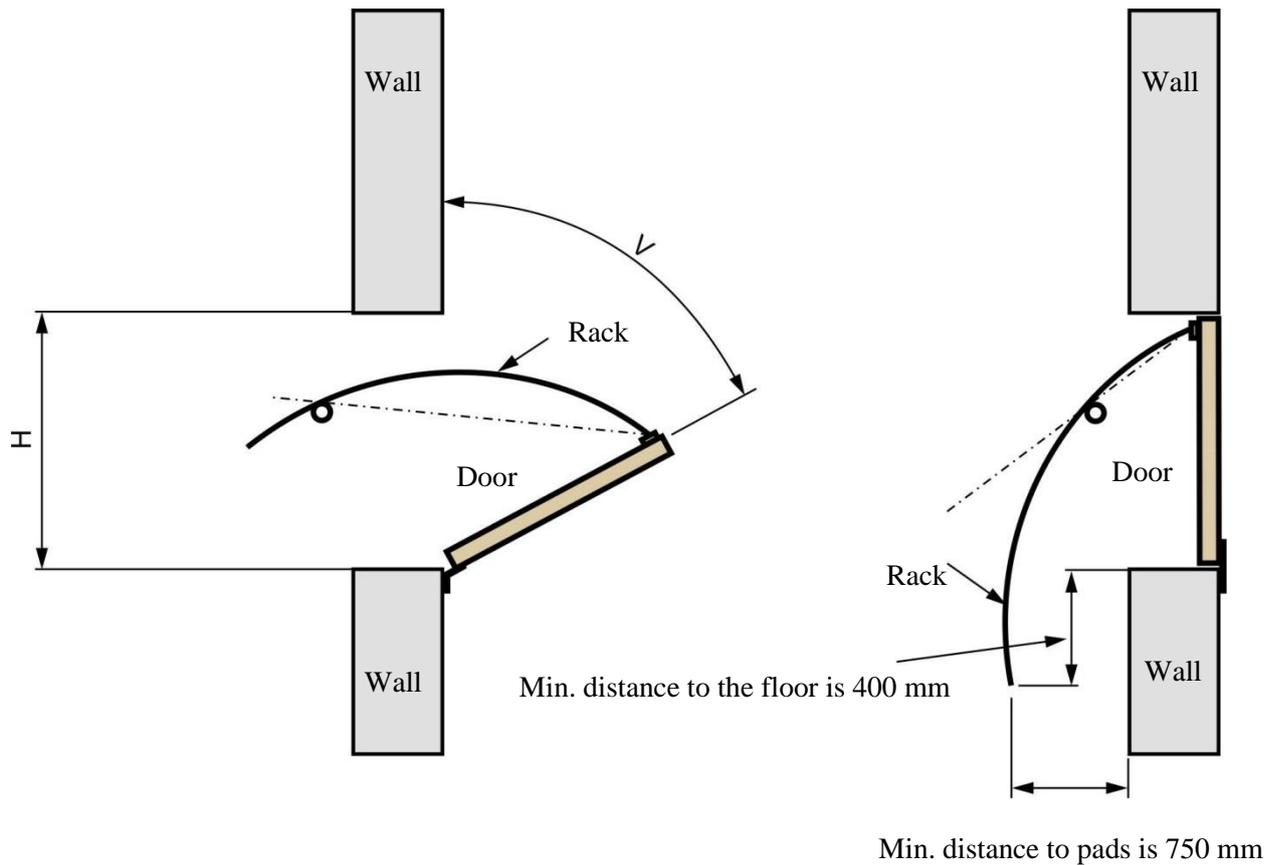
Can be used as R&P door.

3 Technical Data

SKOV A/S recommends an air speed of 2-2.5 m/s through the door, which suits the standard panel height of 1.2 m. The racks are designed for the 1.2 m high and 25-50 mm thick panel door but can be used for other heights as well.

3.1 Door Opening approx. 63° - standard solution

At full open: $V = 63^\circ$
 Door opening: $H = 800 - 1200$ mm
 Door weight: Max. 12.5 kg/m²



3.2 Door Opening approx. 90° - special solution

Door opening: H = 500 – 1200 mm
 Wall thickness: B = 70 – 400 mm
 Door weight: Max. 12.5 kg/m²

