



## C-Rail Systems

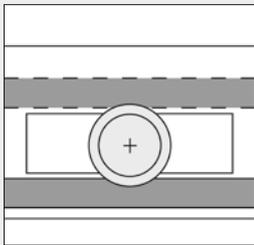
- Variable roller guide for large doors
- Three design variants, each available in three versions for different lines
- Can be adjusted to be free from play if required



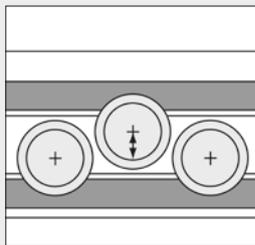
C-Rail Systems are specialized Roller Guides and are ideal for constructing compact guides, lifting doors, sliding doors, movable guards and enclosures etc.



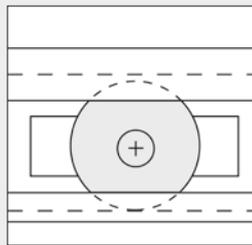
The C-Rail Systems for Profiles 5, 6 and 8 are each available in 3 versions:



C-Rail System 1R with slides on prismatic steel rollers mounted on ball bearings and a polished guiding shaft. A second guiding shaft can also be fitted in order to prevent the sliding door from tilting when moved.



C-Rail System 3R with guide slides that can be adjusted via eccentrics. The 3 steel rollers mounted on ball bearings run free from play on 2 polished shafts and are ideal for cases where particular requirements are placed on the precision of the guides. This version can accommodate high loads in the vertical downward plane and features particularly low-friction running.



C-Rail System K with slide consisting of plastic rollers running directly on the aluminium rail profile. This variant can accommodate low hanging loads as shown in the illustration opposite and is adequate for simple guide operations.



## Calculation of service life for all linear slides mounted on rolling elements

$$L = \left(\frac{C}{P}\right)^3 \cdot 100$$

$$L_h = \left(\frac{C}{P}\right)^3 \cdot \frac{1666}{\bar{v}}$$

$$S_0 = \frac{C_0}{P}$$

L = Service life in km

L<sub>h</sub> = Service life in h

C = Dynamic load rating in N

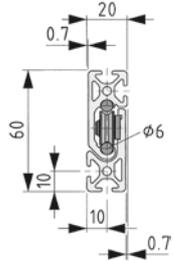
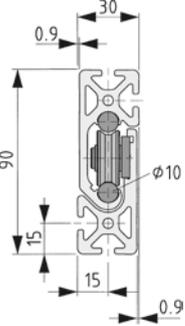
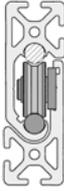
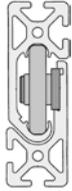
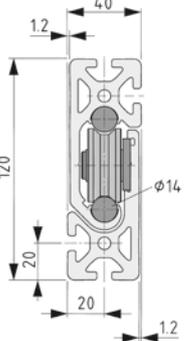
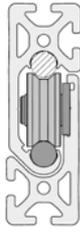
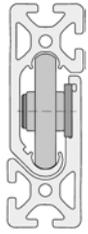
P = Load in N

$\bar{v}$  = Mean slide speed in m/min

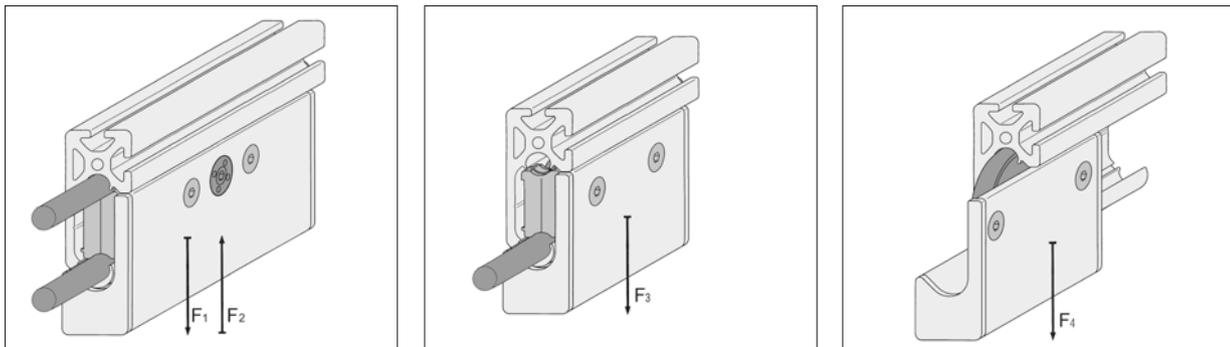
S<sub>0</sub> = Static load safety factor > 3

C<sub>0</sub> = Static load rating in N

## Guide Alternatives

Line	C-Rail System 3R	C-Rail System 1R	C-Rail System K
			
			
			

## Load Specifications



C-Rail System 5 D6 3R $F_1 = 250 \text{ N}, F_2 = 125 \text{ N}$	C-Rail System 5 D6 1R $F_3 = 125 \text{ N}$	C-Rail System 5 K $F_4 = 50 \text{ N}$
C-Rail System 6 D10 3R $F_1 = 750 \text{ N}, F_2 = 350 \text{ N}$	C-Rail System 6 D10 1R $F_3 = 350 \text{ N}$	C-Rail System 6 K $F_4 = 125 \text{ N}$
C-Rail System 8 D14 3R $F_1 = 1500 \text{ N}, F_2 = 750 \text{ N}$	C-Rail System 8 D14 1R $F_3 = 750 \text{ N}$	C-Rail System 8 K $F_4 = 250 \text{ N}$