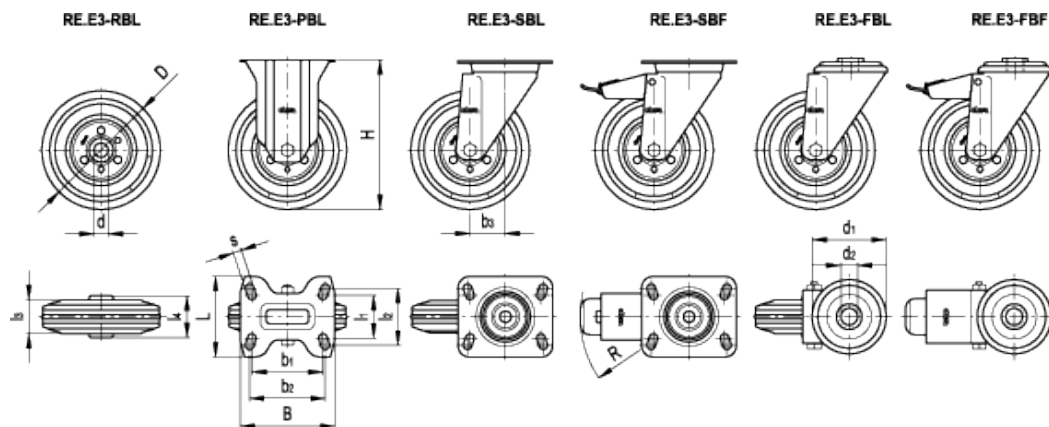


# RE.E3

Vulcanised rubber wheels



## technical informations

### Covering with tread

Vulcanised rubber NBR; hardness 83 Shore A.

### Centre

Consisting of two zinc-plated and riveted plate disks.

### Bore

Polyamide-based technopolymer (PA) plain bearings, resistant to solvents, oils and other chemicals, integral to the centre.

### Axle set

Calibrated zinc-plated steel precision tube. The tube serves as a spacer, is tightened to the bracket with screw and nut to a predetermined torque value.  
The wheel bore rotates onto the tube freely.

### Standard executions (bore with plain bearing)

- RBL: wheel only.

- PBL: brakeless wheel with zinc-plated steel fixed bracket.
- SBL: brakeless wheel with zinc-plated steel turning plate and bracket.
- SBF: wheel with brake and zinc-plated steel turning plate with bracket.
- FBL: brakeless wheel with zinc-plated steel turning plate with bracket and assembly pass through hole.
- FBF: wheel with brake and zinc-plated steel turning plate and bracket, assembly pass through hole.

### Fixed plate bracket

Zinc-plated steel plate, the bracket is designed to withstand loads up to 4000N. The bracket load capacity is greater than the dynamic carrying capacity of the wheel assembly plus the bracket (see table), this is a further safety feature.

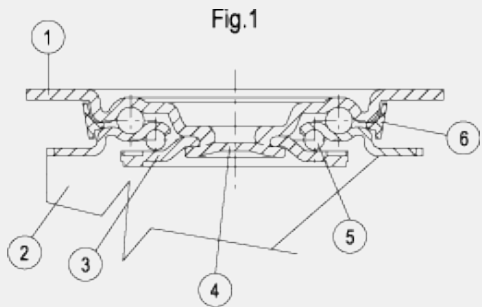
### Turning plate bracket

Zinc-plated steel plate, the bracket is designed to withstand loads up to 4000N. The bracket load capacity is greater than the dynamic carrying capacity of the wheel assembly plus the bracket (see table), this is a further safety feature.

The presence of two ball turns and the direct contact between the plate and the ball race ring with built-in pin ensure excellent manoeuvrability and very limited clearance (see fig. 1).

Does not require maintenance. It consists of:

- 1) Bracket: electrolytically galvanised steel plate.
- 2) Fork: electrolytically galvanised steel plate.
- 3) Ball race ring: electrolytically galvanised steel plate.
- 4) Central pin: incorporated in the plate, cold reformed.
- 5) Fitting plate: dual grease-lubricated ring of ball.
- 6) Dust seal: RAL 7015 dark grey technopolymer.



### Front-actuated brake

- 80-150mm diameter wheels: total brake that locks the wheel and bracket rotation.

The optimised dimensions and the retractible pedal ensure minimal space occupied and maximum actuation ease.

In order to optimise the wheel lock in both directions of rotation, the spring is fitted with a dual braking tooth. Hardened carbon steel spring.

- 200mm diameter wheel: total brake that locks the wheel and bracket rotation.

The optimised dimensions and the retractible pedal ensure minimal space occupied and maximum actuation ease. Hardened carbon steel spring.

### Applications

The wheel RE.E3 may be mounted on different kind of trolleys, with medium-light loads; it is also suitable for outdoor use.

Typical applications: trolleys for industrial moving, for outdoor use also, waste dumpsters.

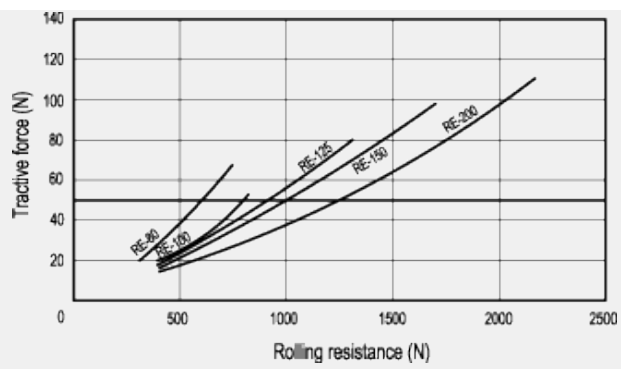
### Environmental conditions

Suitable for use in humid environments and in the presence of atmospheric agents; use in environments with the presence of organic, chlorinated solvents, hydrocarbons and mineral oils is not recommended.

### Rolling resistance - force / load applied

The diagram shows the force to be applied to a wheel to keep it moving at the constant speed of 4 km/h, according to the applied load.

The intersection point with a 50N value is the maximum transportable load with a manually actuated 4-wheel trolley; in fact, 200N = 50N x 4 wheels is the maximum force that may be supported by the operator according to the regulations in force regarding work safety.






















*Mechanical moving with towing devices*

For mechanical towing, please see the technical specifications to determine the capacity variation.

*Temperature*

If operating temperatures in an application differ from the standard range of values, please see the technical specifications to determine the capacity variation.

| Selection parameters              |   | Value range                  |   |
|-----------------------------------|---|------------------------------|---|
| Load capacity                     |    | Light load, up to 250 kg     | ● |
|                                   |    | Medium load, up to 750 kg    | ▲ |
|                                   |    | Heavy load, more than 750 kg | ▲ |
| Rolling resistance                |    | < 125 kg                     | ● |
|                                   |    | > 125 kg                     | ▲ |
| Flooring                          |    | Tiles                        | ● |
|                                   |    | Asphalt                      | ● |
|                                   |    | Cement - resin               | ● |
|                                   |    | Not paved                    | ● |
|                                   |    | Expanded metal               | ● |
|                                   |    | With chips, obstacles, etc.  | ▲ |
| Environmental chemical conditions |  | No aggressive chemicals      | ● |
|                                   |  | With aggressive chemicals    | ▲ |
| Temperature                       |  | -40° / -20°                  | □ |
|                                   |  | -20° / +80°                  | ● |
|                                   |  | +80° / +120°                 | ▲ |
|                                   |  | > 120°                       | ▲ |
| Means of traction                 |  | Manual                       | ● |
|                                   |  | Mechanical                   | □ |

- Recommended
- Tolerated
- ▲ Not recommended



| Standard Elements |               | Main dimensions |    |                |                |     |     |     |    |                |                |                |                |                |     |                |                | Static load * | Rolling resistance | Dynamic carrying capacity | Weight |
|-------------------|---------------|-----------------|----|----------------|----------------|-----|-----|-----|----|----------------|----------------|----------------|----------------|----------------|-----|----------------|----------------|---------------|--------------------|---------------------------|--------|
| Code              | Description   | D               | d  | l <sub>3</sub> | l <sub>4</sub> | H   | B   | L   | s  | b <sub>1</sub> | l <sub>1</sub> | b <sub>2</sub> | l <sub>2</sub> | b <sub>3</sub> | R   | d <sub>1</sub> | d <sub>2</sub> | [N]           | [N]                | [N]                       | g      |
| 450001            | RE.E3-080-RBL | 80              | 12 | 25             | 39             | -   | -   | -   | -  | -              | -              | -              | -              | -              | -   | -              | -              | 2600          | 600                | 650                       | 170    |
| 450006            | RE.E3-100-RBL | 100             | 12 | 30             | 44             | -   | -   | -   | -  | -              | -              | -              | -              | -              | -   | -              | -              | 3000          | 750                | 800                       | 280    |
| 450012            | RE.E3-125-RBL | 125             | 15 | 37.5           | 44             | -   | -   | -   | -  | -              | -              | -              | -              | -              | -   | -              | -              | 3300          | 850                | 1300                      | 510    |
| 450016            | RE.E3-150-RBL | 150             | 15 | 40             | 44             | -   | -   | -   | -  | -              | -              | -              | -              | -              | -   | -              | -              | 3500          | 1000               | 1700                      | 730    |
| 450022            | RE.E3-200-RBL | 200             | 20 | 50             | 58             | -   | -   | -   | -  | -              | -              | -              | -              | -              | -   | -              | -              | 4100          | 1400               | 2300                      | 1750   |
| 450151            | RE.E3-080-PBL | 80              | 12 | 25             | -              | 107 | 100 | 85  | 9  | 75             | 45             | 80             | 60             | -              | -   | -              | -              | -             | 600                | 650                       | 490    |
| 450156            | RE.E3-100-PBL | 100             | 12 | 30             | -              | 128 | 100 | 85  | 9  | 75             | 45             | 80             | 60             | -              | -   | -              | -              | -             | 750                | 800                       | 620    |
| 450161            | RE.E3-125-PBL | 125             | 15 | 37.5           | -              | 156 | 100 | 85  | 9  | 75             | 45             | 80             | 60             | -              | -   | -              | -              | -             | 850                | 1300                      | 920    |
| 450166            | RE.E3-150-PBL | 150             | 15 | 40             | -              | 182 | 100 | 85  | 9  | 75             | 45             | 80             | 60             | -              | -   | -              | -              | -             | 1000               | 1700                      | 1220   |
| 450171            | RE.E3-200-PBL | 200             | 20 | 50             | -              | 240 | 140 | 114 | 11 | 105            | 73             | 105            | 85             | -              | -   | -              | -              | -             | 1400               | 2300                      | 2890   |
| 450051            | RE.E3-080-SBL | 80              | 12 | 25             | -              | 107 | 100 | 85  | 9  | 75             | 45             | 80             | 60             | 39             | -   | -              | -              | -             | 600                | 650                       | 690    |
| 450056            | RE.E3-100-SBL | 100             | 12 | 30             | -              | 128 | 100 | 85  | 9  | 75             | 45             | 80             | 60             | 35             | -   | -              | -              | -             | 750                | 800                       | 820    |
| 450061            | RE.E3-125-SBL | 125             | 15 | 37.5           | -              | 156 | 100 | 85  | 9  | 75             | 45             | 80             | 60             | 37             | -   | -              | -              | -             | 850                | 1300                      | 1180   |
| 450066            | RE.E3-150-SBL | 150             | 15 | 40             | -              | 182 | 100 | 85  | 9  | 75             | 45             | 80             | 60             | 37             | -   | -              | -              | -             | 1000               | 1700                      | 1400   |
| 450071            | RE.E3-200-SBL | 200             | 20 | 50             | -              | 240 | 140 | 110 | 11 | 105            | 73             | 105            | 87             | 56             | -   | -              | -              | -             | 1400               | 2300                      | 3250   |
| 450101            | RE.E3-080-SBF | 80              | 12 | 25             | -              | 107 | 100 | 85  | 9  | 75             | 45             | 80             | 60             | 39             | 120 | -              | -              | -             | 600                | 650                       | 870    |
| 450106            | RE.E3-100-SBF | 100             | 12 | 30             | -              | 128 | 100 | 85  | 9  | 75             | 45             | 80             | 60             | 35             | 120 | -              | -              | -             | 750                | 800                       | 1000   |
| 450111            | RE.E3-125-SBF | 125             | 15 | 37.5           | -              | 156 | 100 | 85  | 9  | 75             | 45             | 80             | 60             | 37             | 120 | -              | -              | -             | 850                | 1300                      | 1300   |
| 450116            | RE.E3-150-SBF | 150             | 15 | 40             | -              | 182 | 100 | 85  | 9  | 75             | 45             | 80             | 60             | 37             | 120 | -              | -              | -             | 1000               | 1700                      | 1570   |
| 450121            | RE.E3-200-SBF | 200             | 20 | 50             | -              | 240 | 140 | 110 | 11 | 105            | 73             | 105            | 87             | 56             | 156 | -              | -              | -             | 1400               | 2300                      | 3390   |
| 450201            | RE.E3-080-FBL | 80              | 12 | 25             | -              | 107 | -   | -   | -  | -              | -              | -              | -              | 39             | -   | 73             | 12             | -             | 600                | 650                       | 610    |
| 450206            | RE.E3-100-FBL | 100             | 12 | 30             | -              | 128 | -   | -   | -  | -              | -              | -              | -              | 35             | -   | 73             | 12             | -             | 750                | 800                       | 740    |
| 450211            | RE.E3-125-FBL | 125             | 15 | 37.5           | -              | 156 | -   | -   | -  | -              | -              | -              | -              | 37             | -   | 73             | 12             | -             | 850                | 1300                      | 1090   |
| 450216            | RE.E3-150-FBL | 150             | 15 | 40             | -              | 182 | -   | -   | -  | -              | -              | -              | -              | 37             | -   | 73             | 12             | -             | 1000               | 1700                      | 1350   |
| 450221            | RE.E3-200-FBL | 200             | 20 | 50             | -              | 236 | -   | -   | -  | -              | -              | -              | -              | 56             | -   | 102            | 20             | -             | 1400               | 2300                      | 3160   |
| 450251            | RE.E3-080-FBF | 80              | 12 | 25             | -              | 107 | -   | -   | -  | -              | -              | -              | -              | 39             | 120 | 73             | 12             | -             | 600                | 650                       | 780    |
| 450256            | RE.E3-100-FBF | 100             | 12 | 30             | -              | 128 | -   | -   | -  | -              | -              | -              | -              | 35             | 120 | 73             | 12             | -             | 750                | 800                       | 940    |

|        |               |     |    |      |   |     |   |   |   |   |   |   |   |   |   |    |     |     |    |   |      |      |      |
|--------|---------------|-----|----|------|---|-----|---|---|---|---|---|---|---|---|---|----|-----|-----|----|---|------|------|------|
| 450261 | RE.E3-125-FBF | 125 | 15 | 37.5 | - | 156 | - | - | - | - | - | - | - | - | - | 37 | 120 | 73  | 12 | - | 850  | 1300 | 1240 |
| 450266 | RE.E3-150-FBF | 150 | 15 | 40   | - | 182 | - | - | - | - | - | - | - | - | - | 37 | 120 | 73  | 12 | - | 1000 | 1700 | 1490 |
| 450271 | RE.E3-200-FBF | 200 | 20 | 50   | - | 236 | - | - | - | - | - | - | - | - | - | 56 | 156 | 102 | 20 | - | 1400 | 2300 | 3290 |

\* The static load value is characteristic of the wheel only without motion.



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