

## wedi Fundo *Primo / Trollo / Borgo / Nautilo*

- Floor-level shower system
- Waterproof
- For private residential construction and public buildings



### General product description

Floor-level shower element for direct tiling with horizontal or vertical floor drain for newbuild and renovation projects.

### Applications

- In private residential construction
- In public buildings and workplaces complying with DIN 18024 part 2
- In accessible dwellings complying with DIN 18025 parts 1 and 2 (note specifications for minimum tile size if wheelchair access is planned, see technical properties)
- As a construction seal combined with tile and slab coverings of load class A0, A and B (directly loaded walls and floors in rooms in which tap or cleaning water is used very frequently or for long periods, walls and floors of indoor and outdoor pools that are filled with water with the properties of drinking water), more info available at [www.wedi.de](http://www.wedi.de).

### Product properties

The wedi Fundo system can be installed on almost any surface as an individual tileable floor-level shower system. The system includes a sealed foam core with special waterproof coating, a specified surface slope and a perfectly-fitting system floor drain.

### Surface requirements, processing

Information on processing and surface requirements can be found in the wedi "Building materials" brochure and the fitting instructions (see [www.wedi.de](http://www.wedi.de)).

## Technical properties – Rigid foam

Extruded polystyrene rigid foam core	XPS
Long-term compressive strength (50 years) $\leq$ 2% compression EN 1606	0.08 N/mm <sup>2</sup>
Compressive resistance at 10% compression EN 826	0.25 N/mm <sup>2</sup>
Thermal conductivity EN 13164	0.033 W/mK
Bulk density EN 1602	32 kg/m <sup>3</sup>
Temperature limits	-50°C / +75°C
Fire behaviour/Building material class DIN 4102	B1
Fire behaviour EN 13501-1	E
Tested waterproofness	1.5 bar

## Technical properties – Drain

Special drain with odour trap and stainless steel cover. Frame can be adapted to tile thickness.

Frame with stainless steel grille available in the following dimensions:	95 x 95 mm
	20 x 120 mm
	42 x 142 mm
	Ø 120 mm
<b>Drain performance depending on the drain selected:</b>	
Fundo drain Minimax, horizontal, DN 40	0.54 l/s; 32.4 l/min
Fundo drain, horizontal, DN 50	0.80 l/s; 48.0 l/min
Fundo drain, vertical, DN 50	1.00 l/s; 60.0 l/min
Fundo drain, vertical, DN 70	0.88 l/s; 52.8 l/min

Fundo drain with fire protection collar as a pipe seal of fire resistance class R120, R90, R60 and R30 when fitted with components of fire resistance class F120, F90, F60 and F30 in accordance with DIN 4102-2. In the event of a fire, the tumescent mass in the metal body expands at 150°C and closes off the cover opening.

## Installation specifications

Minimum cover thickness (concrete, reinforced concrete, porous concrete) 15 cm, minimum thickness wooden beam ceilings (complying with DIN 4102-4 section 5.3.3 of fire resistance class F30-B) 15 cm, core hole 160 mm or round sheath 157 – 177 mm. When connecting drain pipes within the fire protection collar, polypropylene "SML/HT pipe connectors" by Dallmer GmbH & Co. must be used (general technical approval at [www.wedi.de](http://www.wedi.de)).

## Technical properties – Fundo

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<b>Wheelchair load-bearing from minimum tile size</b>	50 x 50 mm
<b>Glass mosaic from minimum size</b>	20 x 20 mm
<b>Minimum foundation height depending on the drain:</b>	
horizontal drain, DN 50	130 mm
horizontal drain Minimax, DN 40	97 mm
<b>vertical drain</b>	40 mm
<b>Surface slope (from outer edge of Fundo floor element to outer edge of drain opening) (exception: Fundo Nautilo, 28 mm surface slope)</b>	18 mm

For impact sound insulated floor structures, installation of impact sound insulation under wedi Fundo and edge insulation strips should be planned:

Construction using wedi Nonstep Plan impact sound deadening boards (6 mm rubber granulate insulation element,  $\Delta L_{WR} = 14$  dB in accordance with DIN 52210). Alternatively, approved polythene membranes may be used.

Permitted noise level in accordance with DIN 4109  $L_{In} \leq 30$  dB(A) and in accordance with VDI 4100 SSt III  $\leq 25$  dB (A), caused by water installations: complied with using wedi Fundo and Nonstep Plan (see noise test report at [www.wedi.de](http://www.wedi.de))

wedi Fundo floor elements can be shortened on site, but the geometry of the elements should be maintained.

## Packing

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Floor element and drain in separate boxes

## Storage

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In principle the wedi Fundo system should be stored flat. It must be protected against direct sunlight and moisture.

## Safety notice

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none