

# SKYFLOOR BS

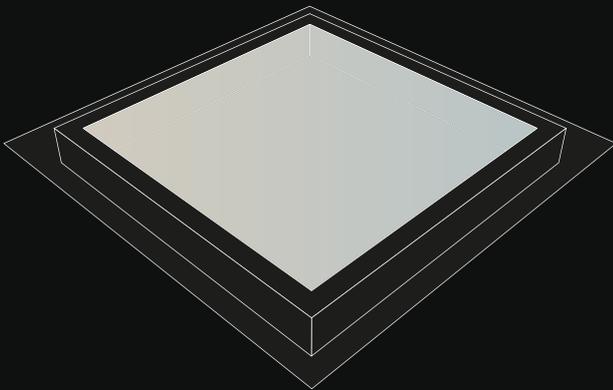
TECHNICAL DATA

THE FIRE-RESISTANT WALK-ON GLAZING

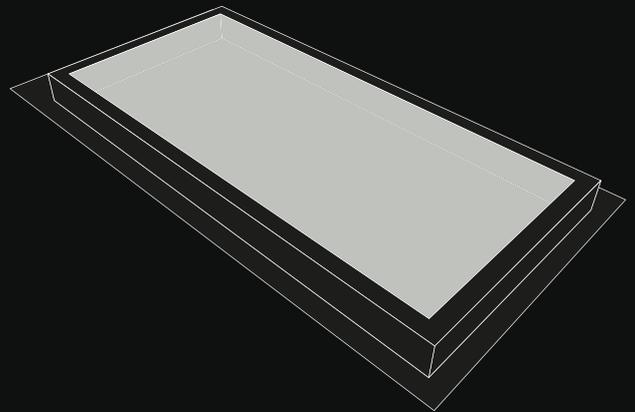
## FORM

Choose the form of the walk-on lightwells glazing with integrated ventilation grid that best meets your needs. Built as standard, with a customised finish. Wide variety of add-ons can be individualised.

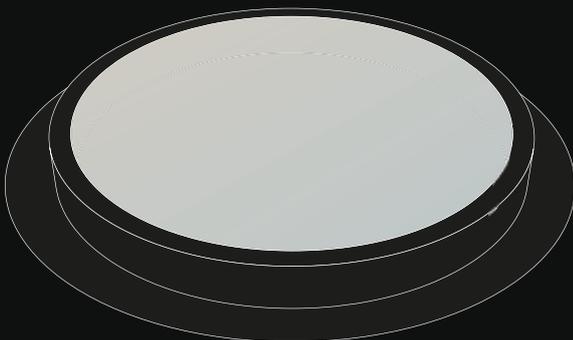
### THE SQUARE



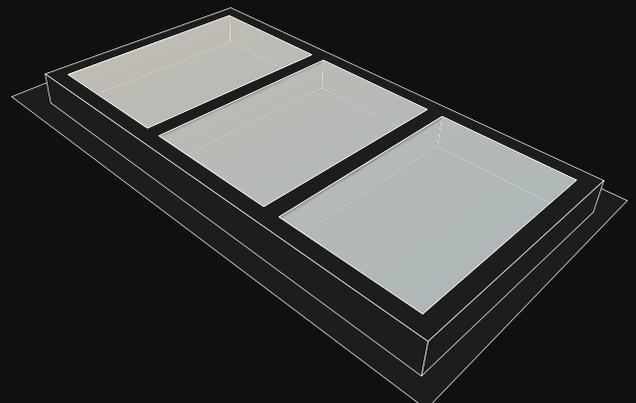
### THE RECTANGLE



### THE CIRCLE



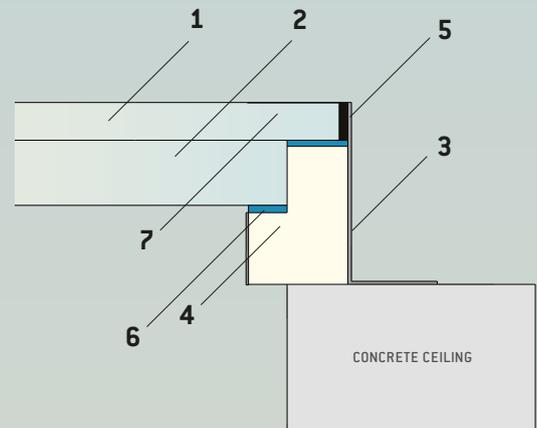
### THE INDIVIDUALE



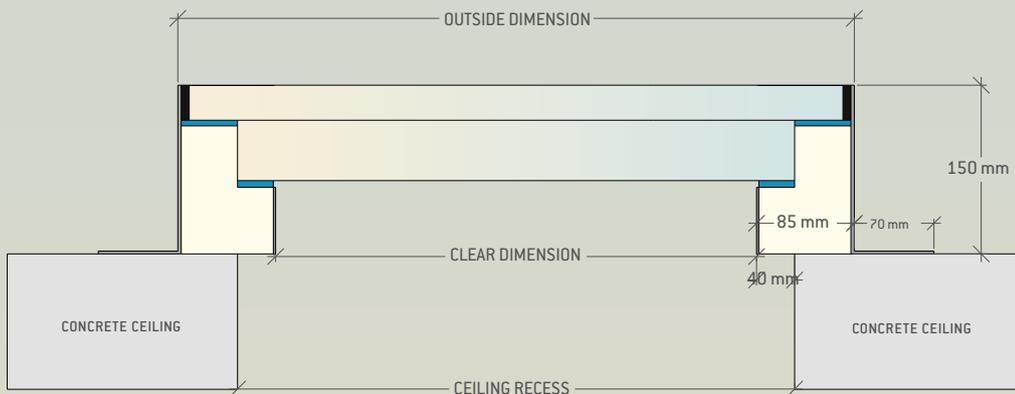
# CONSTRUCTION

- 1 static laminated safety glass \*
- 2 fire-protective laminated safety glazing \*
- 3 stainless steel frame
- 4 fire-protective profile
- 5 sealing joint
- 6 powder-coated white / brushed stainless steel
- 7 ceramic strips - black

\* laminated safety glass glazed in factory-provided frame



# DIMENSIONS



## STANDARD SQUARE SIZES:



SIZES FOR GUIDANCE

- up to 80 x 80cm
- up to 100 x 100cm
- up to 120 x 120cm
- up to 140 x 140cm

## STANDARD RECTANGLE SIZES:



SIZES FOR GUIDANCE

- up to 100 x 60cm
- up to 120 x 80cm
- up to 140 x 100cm
- up to 200 x 100cm
- up to 200 x 140cm

## STANDARD CIRCLE SIZES:



SIZES FOR GUIDANCE

- up to 80cm diameter
- up to 100cm diameter
- up to 120cm diameter
- up to 140cm diameter

INDIVIDUAL SIZES AT THE PRICE OF THE INDICATED STANDARD SIZES.

Light-entry dimensions = outside dimension - 17cm

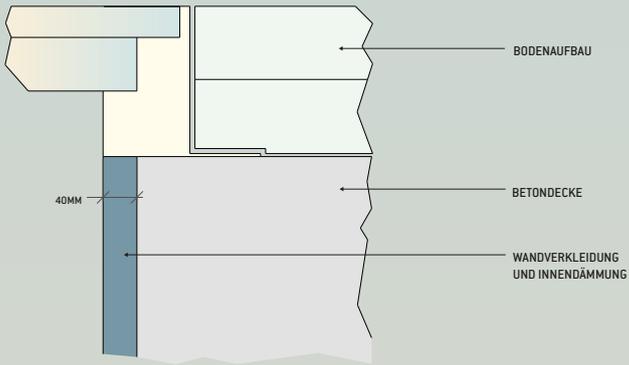
MAXIMUM SIZE FOR EACH PANE OF GLASS: 140 X 140 CM

Weight: approx. 230kg per m<sup>2</sup>

# CONNECTION

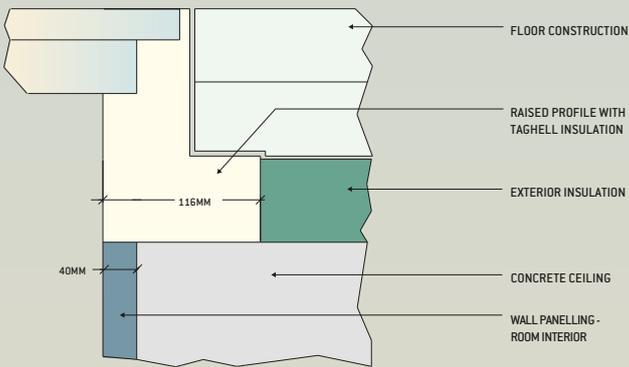
The installation of our Skyfloor BS can be undertaken by a roof specialist or by the Taghell team. The connections illustrated below are based on interior floor foundation.

## CONNECTION TO COLD ROOF



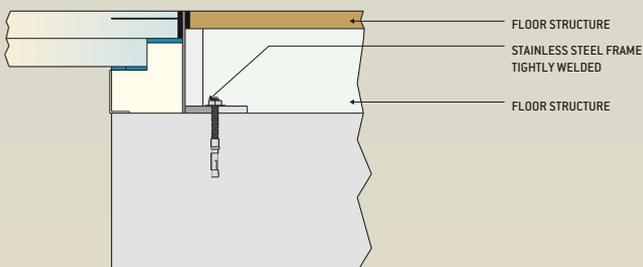
INSULATED

## CONNECTION WITH INSULATED RAISED PROFILE



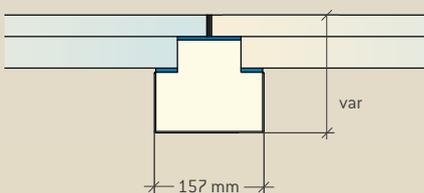
INSULATED / NON-INSULATED

## CONNECTION TO BASE SLAB



NON-INSULATED

## DIVISION OF GLASS



In standard sizes, the Skyfloor BS provides a complete ready-to-install system, comprising a frame with integrated glazing.

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## GLASS

Choose the Skyfloor BS glazing that best meets your needs

	standard thermal insulation [2x glazing]
	begehbar
thermal transmission coefficient (vertical in W/m <sup>2</sup> K)	1.1
total energy transmittance (in %)	47
luminous transmission index t <sub>L</sub> (in%)	73
sound insulation value (in dB)	≥50
carrying capacity (kN/m <sup>2</sup> )	5

The given values are for guidance purposes

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## FRAME

Insulated core, thermally separated from stainless steel outer frame and inner frame for the 4-sided embedding of walk-on glass

Thermal conductivity (W/m . K)	0.058
Tensile strength (kPa) in accordance with EN 13167	400

In standard sizes, the Skyfloor BS provides a complete ready-to-install glass frame system comprising a frame with integrated walk-on glazing

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## STANDARD

Skyfloor BS meets the standards for walk-on glazing required in Germany, Austria and Switzerland.

Fire resistant glazing: Installation of fire-resistant walk-on glazing might require specific approval in individual cases [ZiE].

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## FIRE PROTECTION

Building materials are divided into the following categories according to how they behave in contact with fire:

Building materials that themselves burn, building materials that do not allow fire gases to pass through but do not prevent the heat radiation from igniting objects behind them and building materials that also retain the heat radiation for a certain period of time. Fire resistance is divided into different resistance classes which are expressed in minutes (Steps: 15, 30, 60, 90, 120 and 300minutes).

Room-sealing and heat-insulating glass can resist fire which comes from one side only, in such a way that flames and fumes are prevented from passing through and no significant heat transfer takes place. High quality resistant glazing, which on average is not heated to more than 140K on the fire-facing side, are classified as F30 - F120, according to DIN 4102. Skyfloor can be produced in F30 and F90.

### APPROVAL IN INDIVIDUAL CASES

The installation of a fire resistant walk-on Skyfloor requires approval on a case-by-case basis. This is issued by the highest building authority of the responsible federal state at the written request of the client or representative and is limited to the respective construction project. In such cases, we provide the necessary expert statement to submit to the building authorities.

### FIRE PROTECTION LAW IN OTHER EU COUNTRIES

Contact us to enquire about fire safety regulations in specific countries, and we will be happy to provide the relevant information.

**Fire-resistant glazing F30 - F90 for single-sided fire protection (single-sided from underside to upper side).**

