

SitaDSS Fireguard®

High-pressure drainage. Fire protection in the set.



SitaDSS
Fireguard®

- + For preventive fire protection to DIN 18234
- + A complete set allowing easy and safe installation
- + Small roof penetrations thanks to optimised shape of the PE base body
- + For direct connection to the PE pipes
- + With integrated selected connection sleeve or screw-on flange construction
- + For main and emergency drainage



SitaDSS Fireguard®
with Airstop



SitaDSS Fireguard®
with retaining element



SitaDSS Fireguard®
screw-on flange
with Airstop



SitaDSS Fireguard®
screw-on flange with
retaining element



SitaFireguard®
insulating body
mineral wool

SitaDSS Fireguard®

Product features at a glance:

Product features

Applications	For main and emergency drainage to DIN 12056-3 and DIN 1986-100 for siphonic drainage and for preventive fire protection for flat roofs with requirements according to DIN 18234
Material	Sheet steel, polyethylene, polyurethane
Temperature resistance, min.	-20 °C
Properties	+ Not sensitive to the weather (UV/IR radiation, rain/snow, temperature, ozone, etc.) + Impact and shock resistant + Durable
Workmanship	The general rules of engineering as well as the installation examples and installation instructions of Sita Bauelemente GmbH form the basis. The installation examples are for illustration purposes only and are a general, non-binding recommendation. The design is shown in schematic form only and does not replace the necessary work, detail and installation planning by the contractor. The customer, planner, contractor, etc. is responsible for checking the suitability, completeness and dimensions for the project and adjusting or tailoring the components to suit local requirements. Neighbouring works are shown in schematic form with no guarantee of their being complete or correct. The technical specifications in the information sheets, workmanship guidelines and system permits must be adhered to.

Quality mark



Bauart geprüft
und überwacht

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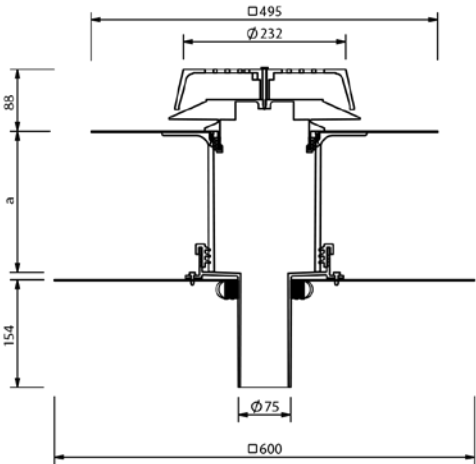
SitaDSS Fireguard® with Airstop



Tender text

SitaDSS Fireguard® with Airstop, for preventive fire protection and to prevent the spread of fire from below where there are small penetrations according to DIN 18234 Part 3 and 4, in two parts, consisting of: PE base body with collar for fixing to the reinforcement plate and for clamping the vapour barrier, to DIN EN 1253-2. Including extension unit for insulating material thicknesses from 65 mm to 210 mm or 105 mm to 570 mm made of PUR with large connection sleeve of choice and dome grate with Airstop. For direct connection to PE pipes (butt welding or with electrofusion socket), for siphonic drainage, with a sealing sleeve and a reinforcement plate to DIN EN 1090-4, with pre-assembled fire protection sleeve, supply complete and install to professional standards.

Technical drawing



DN	OD*	Opening/Core borehole (mm)	Recess dimension (mm x mm)	a (mm)	Thickness of insulation material (mm)	Article number
70	75	185	150 x 150	200	65 - 210	F 30 23 xx
				550	105 - 570	F 30 24 xx

* OD = Outer diameter (mm)

xx = Article end numbers for connection sleeve of choice

Discharge rate according to DIN EN 1253

DN	Retaining height in mm																			
	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100
70	0.7	1.6	2.5	3.5	4.5	6.1	7.6	11.8	16	16.6	17.2	17.3	17.4	17.5	17.5	17.5	17.5	17.5	17.5	17.5

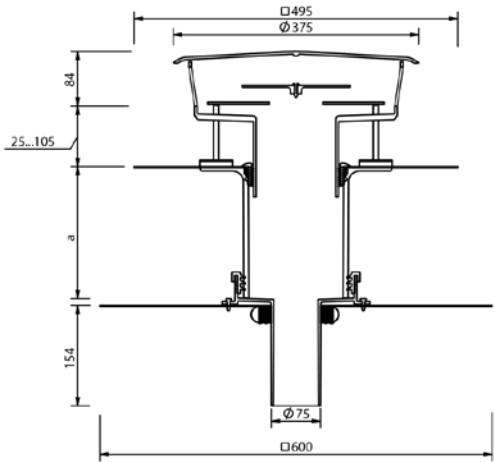
SitaDSS Fireguard® with retaining element



Tender text

SitaDSS Fireguard® with retaining element, DN 70, for preventive fire protection and to prevent the spread of fire from below where there are small penetrations according to DIN 18234 Part 3 and 4, in two parts, consisting of: PE base body with collar for fixing to the reinforcement plate and for clamping the vapour barrier, to DIN EN 1253-2, retaining height. Including extension unit for insulating material thicknesses from 65 mm to 210 mm or 105 mm to 570 mm made of PUR with large connection sleeve of choice and retaining element with Airstop. For direct connection to PE pipes (butt welding or with electrofusion socket), for siphonic drainage, with a sealing sleeve and a reinforcement plate to DIN EN 1090-4, with pre-assembled fire protection sleeve, supply complete and install to professional standards.

Technical drawing



DN	OD*	Opening/Core borehole (mm)	Recess dimension (mm x mm)	a (mm)	Thickness of insulation material (mm)	Article number
70	75	185	150 x 150	200	65 - 210	F 30 25 xx
				550	105 - 570	F 30 26 xx

* OD = Outer diameter (mm)

xx = Article end numbers for connection sleeve of choice

Discharge rate according to DIN EN 1253

DN	Retaining height in mm																			
	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100
70	0.7	1.9	3.0	4.3	5.5	8.1	10.7	13.7	16.7	16.9	17.1	17.2	17.3	17.4	17.5	17.5	17.5	17.5	17.5	17.5

SitaDSS Fireguard®

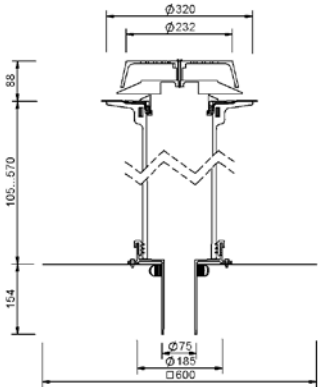
screw-on flange with Airstop



Tender text

SitaDSS Fireguard® screw-on flange with Airstop, for preventive fire protection and to prevent the spread of fire from below where there are small penetrations according to DIN 18234 Part 3 and 4, in two parts, consisting of: PE base body with collar for fixing to the reinforcement plate and for clamping the vapour barrier, to DIN EN 1253-2. Including extension unit for insulating material thicknesses from 105 mm to 570 mm made of PUR with screw-on flange construction and dome grate with Airstop. For direct connection to PE pipes (butt welding or with electrofusion socket), for siphonic drainage, with a sealing sleeve and a reinforcement plate to DIN EN 1090-4, with pre-assembled fire protection sleeve, supply complete and install to professional standards.

Technical drawing



DN	OD*	Opening/Core borehole (mm)	Recess dimension (mm x mm)	Thickness of insulation material (mm)	Article number
70	75	185	150 x 150	105 - 570	F 30 24 99

* OD = Outer diameter (mm)

Discharge rate according to DIN EN 1253

DN	Retaining height in mm																			
	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100
70	0.7	1.6	2.5	3.5	4.5	6.1	7.6	11.8	16	16.6	17.2	17.3	17.4	17.5	17.5	17.5	17.5	17.5	17.5	17.5

SitaDSS Fireguard®

screw-on flange

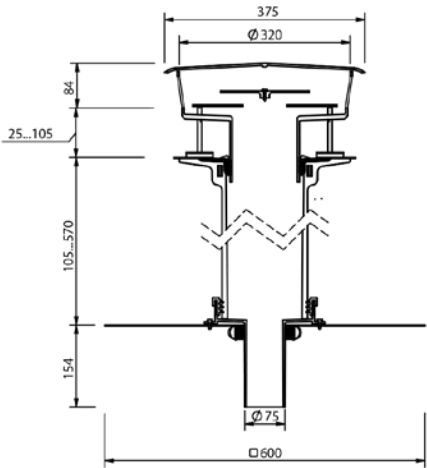
with retaining element



Tender text

SitaDSS Fireguard® screw-on flange with retaining element, DN 70, for preventive fire protection and to prevent the spread of fire from below where there are small penetrations according to DIN 18234 Part 3 and 4, in two parts, consisting of: PE base body with collar for fixing to the reinforcement plate and for clamping the vapour barrier, to DIN EN 1253-2, retaining height. Including extension unit for insulating material thicknesses from 105 mm to 570 mm made of PUR with screw-on flange construction and retaining element with Airstop. For direct connection to PE pipes (butt welding or with electrofusion socket), for siphonic drainage, with a sealing sleeve and a reinforcement plate to DIN EN 1090-4, with pre-assembled fire protection sleeve, supply complete and install to professional standards.

Technical drawing



DN	OD*	Opening/Core borehole (mm)	Recess dimension (mm x mm)	Thickness of insulation material (mm)	Article number
70	75	185	150 x 150	105 - 570	F 30 26 99

* OD = Outer diameter (mm)

Discharge rate according to DIN EN 1253

DN	Retaining height in mm																			
	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100
70	0.7	1.9	3.0	4.3	5.5	8.1	10.7	13.7	16.7	16.9	17.1	17.2	17.3	17.4	17.5	17.5	17.5	17.5	17.5	17.5

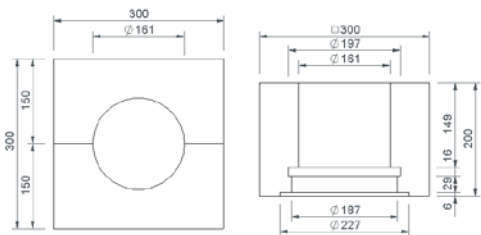
SitaFireguard® insulating body mineral wool



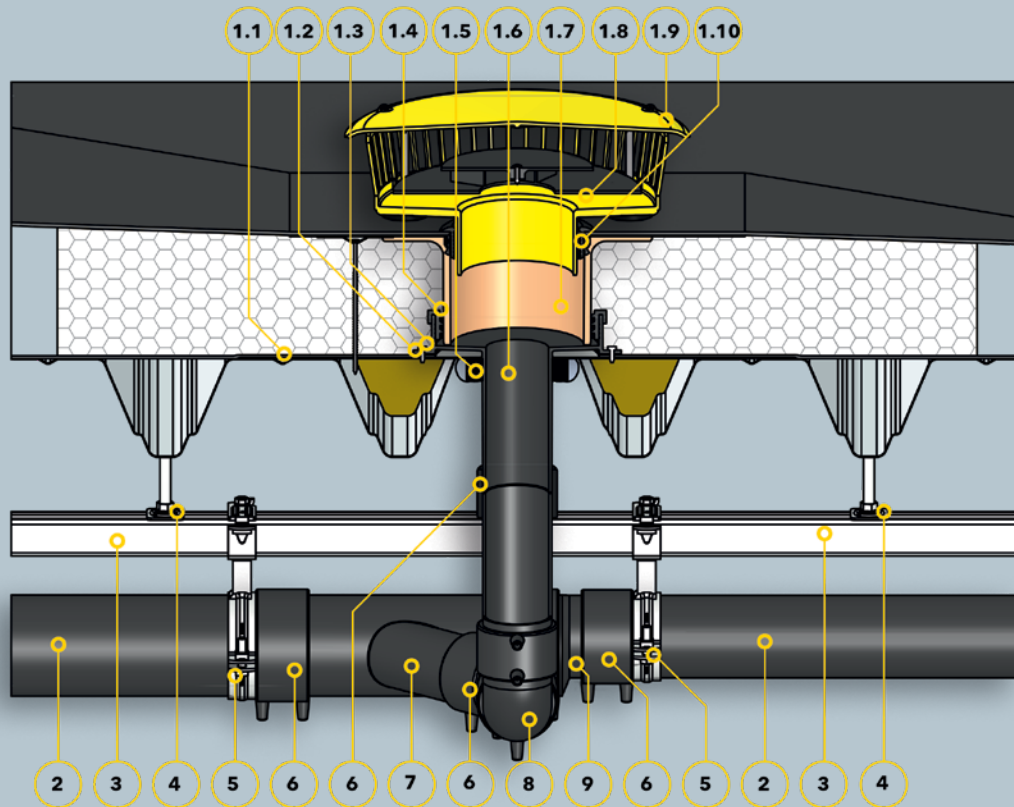
Tender text

SitaFireguard® insulating body, made of mineral fibres, WLG 040, height 200 mm, material class A1 (not flammable), application type DAA dm according to DIN 4108-10, compressive stress ≥ 70 kPa. For thermal insulation and for use as an installation aid for positioning the extension unit for the SitaFireguard®, SitaDSS Fireguard® and the PE pipe for the SitaVent Fireguard®, supply and install to professional standards.

Technical drawing



Compatibility	Article number
SitaFireguard®, SitaDSS Fireguard®, SitaVent Fireguard®	E 10 96 13



Components

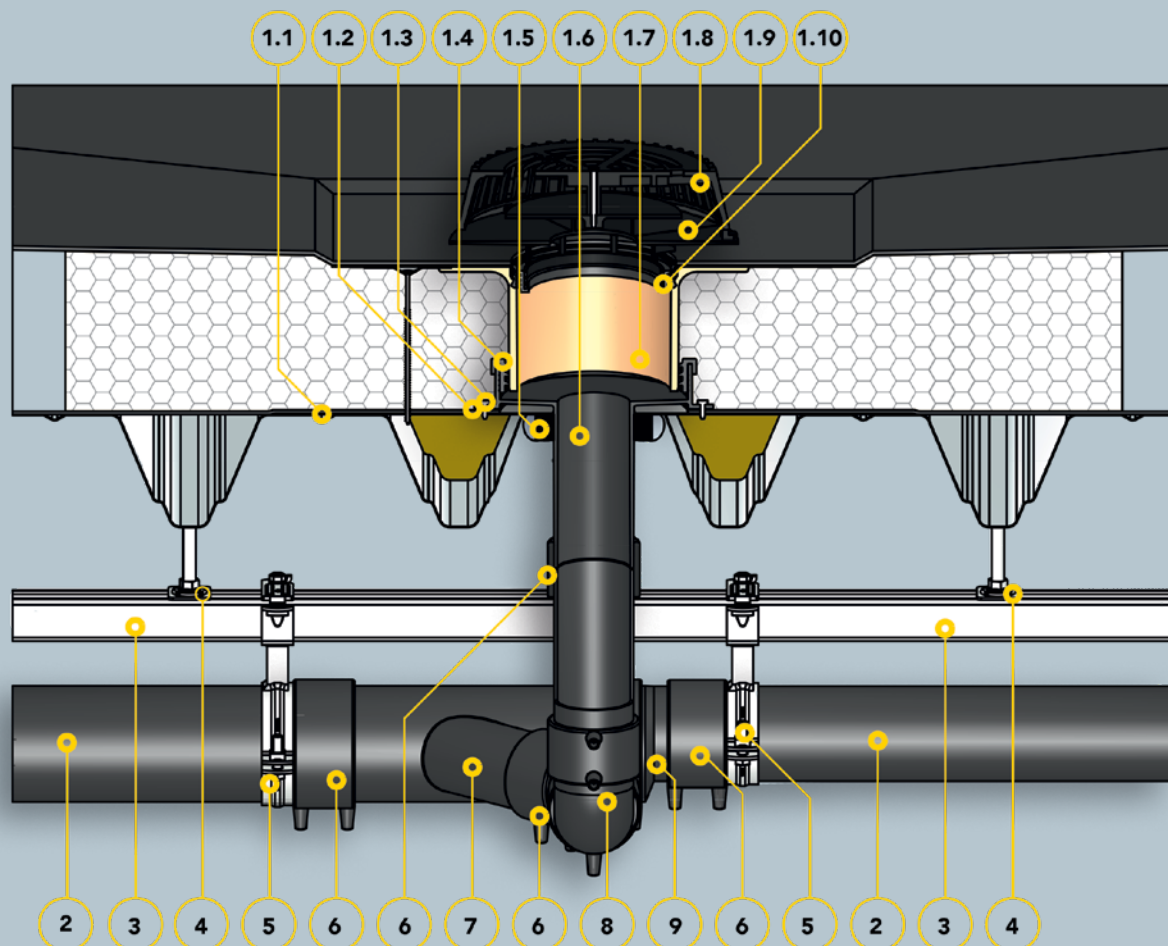
SitaFireguard® emergency drainage consisting of:

- | | |
|--|---|
| 1.1 Reinforcement plate | 2 SitaPipe PE pipe |
| 1.2 Sealing sleeve | 3 SitaDSS Rail mounting rail |
| 1.3 Self-tapping screw | 4 SitaDSS Rail suspension unit rigid |
| 1.4 Seal | 5 SitaDSS clamp fastening unit |
| 1.5 Fire protection sleeve | 6 SitaPipe PE electrofusion socket |
| 1.6 PE base body | 7 SitaPipe PE branch 45° |
| 1.7 Extension unit | 8 SitaPipe PE bend 88.5° |
| 1.8 Retaining element base body | 9 SitaPipe PE reduction piece |
| 1.9 Retaining element cover | |
| 1.10 Retaining element fastening ring | |

Roof structure

Non-ventilated roof structure to the general rules of engineering with:

- + Sealing
- + Thermal insulation non-flammable, min. 1.0 m x 1.0 m
- + Vapour barrier
- + Non-flammable section fillers
- + Steel trapezoidal section



Components

SitaDSS Fireguard® emergency drainage consisting of:

- 1.1 Reinforcement plate
- 1.2 Sealing sleeve
- 1.3 Self-tapping screw
- 1.4 Seal
- 1.5 Fire protection sleeve
- 1.6 PE base body
- 1.7 Extension unit
- 1.8 Dome grate
- 1.9 Airstop
- 1.10 Airstop fastening ring

- 2 SitaPipe PE pipe
- 3 SitaDSS Rail mounting rail
- 4 SitaDSS Rail suspension unit rigid
- 5 SitaDSS Clamp fastening unit
- 6 SitaPipe PE electrofusion socket
- 7 SitaPipe PE branch 45°
- 8 SitaPipe PE bend 88.5°
- 9 SitaPipe PE reduction piece

Roof structure

Non-ventilated roof structure to the general rules of engineering with:

- + Sealing
- + Thermal insulation non-flammable, min. 1.0 m x 1.0 m
- + Vapour barrier
- + Non-flammable section fillers
- + Steel trapezoidal section