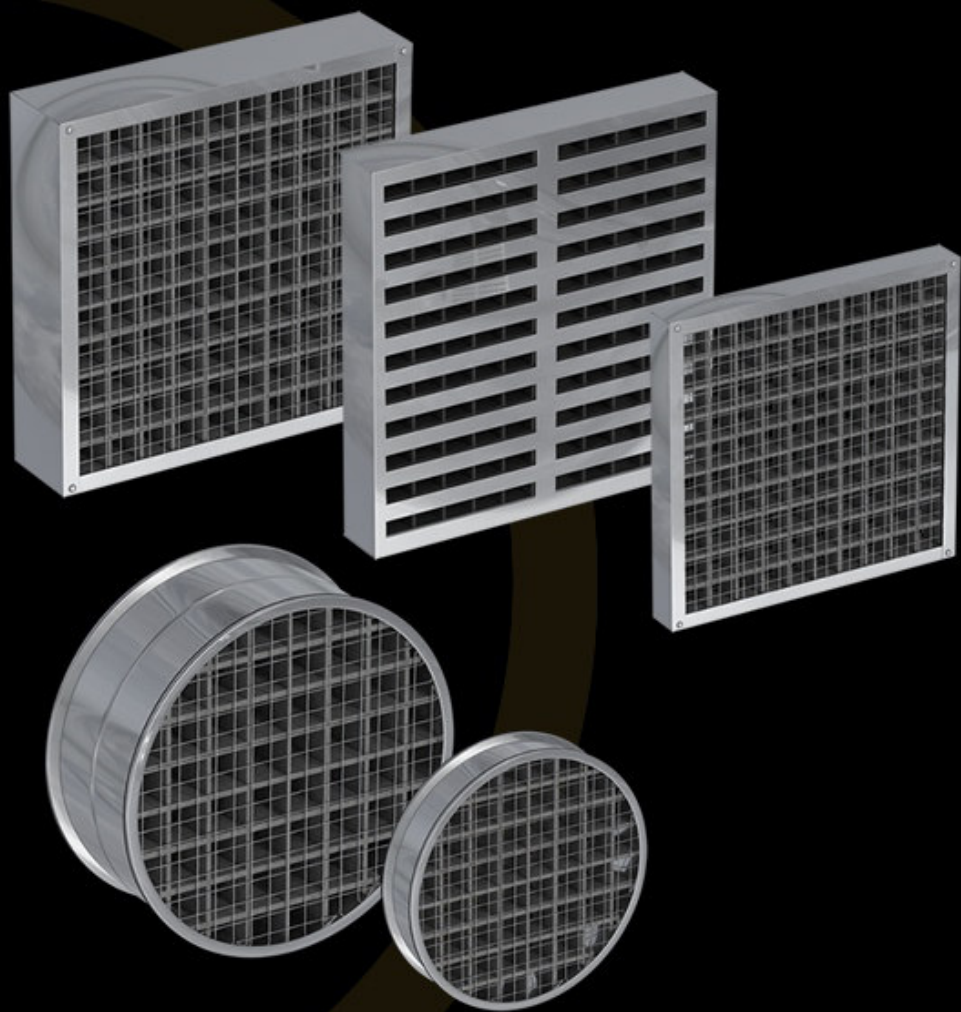


INTU FR GRILLE

Intumescent FR Grille

TDS Technical Data Sheet



•INTUSEAL®
passive fire protection manufacturer

www.intuseal.com

→ PRODUCT DESCRIPTION

Firestop ventilation grilles **INTU FR GRILLE** are made of a rigid steel frame with an intumescent insert. During a fire, the intumescent insert expands and prevents the spread of fire and hot gases, ensuring the partition maintains fire resistance class up to EI 240.

→ APPLICATION

INTU FR GRILLE is installed in the ventilation holes in walls and floors. The material swells during fire and fills the hole completely.

Rigid wall:	The wall must be minimum thickness 150 mm.
	Must have concrete, cellular concrete or masonry structure, with minimum density 600kg/m³.
Rigid floor:	The floor must be minimum thickness 150 mm.
	Must have concrete, cellular concrete or masonry structure, with minimum density 1700kg/m³.

→ AVAILABILITY

- round grille C50, C80 - Ø100 ÷ Ø400
- rectangular grille R40A - 100 x 100 ÷ 600 x 600
- rectangular grille R40B - 100 x 100 ÷ 300 x 300
- rectangular grille R80 - 100 x 100 ÷ 600 x 600

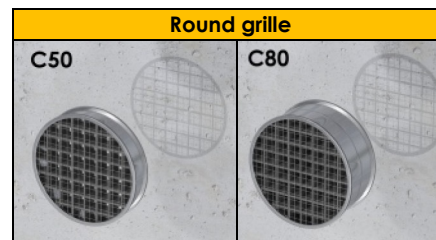
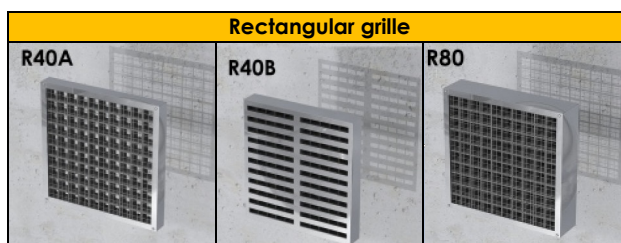
INTU FR GRILLE grilles for type R40A and R80, can be made in non-standard dimensions.

→ INSTALLATION METHOD

1. Adjust the size of the grille to the size of the hole.
2. Apply a small amount of intumescent acrylic mastic (e.g. **INTU FR MASTIC**) to the grille along its edge.
3. Push the grille into the hole.
4. Fill the remaining gaps and cavities with firestop acrylic putty.
5. Install masking plates (e.g. **INTU ATP**) on both sides of the partition using steel screws.



→ AVAILABILITY



Connectors for INTU FR GRILLE:	
Model T	Model X

→ COMPLIANCE

- *Technical Assessment:*
00518/25/Z00NZP of 14/01/2025
- *Declaration of Performance:*
DoP 2/2025

→ TRANSPORT AND STORAGE

Store in dry and cool conditions at temperatures between + 5°C and + 35°C.

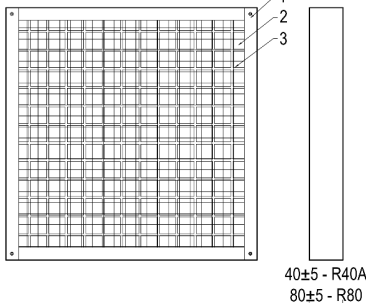
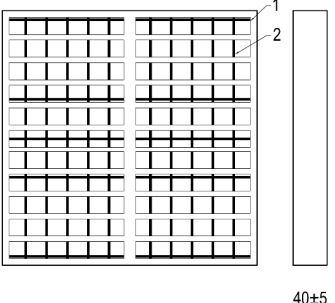
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➔ RECTANGULAR GRILLE - AVAILABILITY, FIRE RESISTANCE CLASS

Rectangular grille R40A, R80	Rectangular grille R40B
1 – metal casing 2 – steel wire mesh 3 – intumescent insert (dimensions in mm)  40±5 - R40A 80±5 - R80	1 – metal casing 2 – intumescent insert (dimensions in mm)  40±5

Grille type	Grille dimensions [mm]	Grille thickness [mm]	Fire resistance class	Scope of application
INTU FR GRILLE R40A	100 x 100 ÷ 600 x 600	40	EI 60	wall and floor
INTU FR GRILLE R40B	100 x 100 ÷ 300 x 300	40	EI 120	wall and floor
INTU FR GRILLE R80	100 x 100 ÷ 300 x 300	80	EI 240	wall
			EI 180	floor
	301 x 301 ÷ 600 x 600	80	EI 90	floor

Height [mm]	R40A / Width [mm] / Art. No.										
	100	150	200	250	300	350	400	450	500	550	600
100	INGRR60/100x100	INGRR60/150x100	INGRR60/200x100	INGRR60/250x100	INGRR60/300x100	INGRR60/350x100	INGRR60/400x100	INGRR60/450x100	INGRR60/500x100	INGRR60/550x100	INGRR60/600x100
150		INGRR60/150x150	INGRR60/200x150	INGRR60/250x150	INGRR60/300x150	INGRR60/350x150	INGRR60/400x150	INGRR60/450x150	INGRR60/500x150	INGRR60/550x150	INGRR60/600x150
200			INGRR60/200x200	INGRR60/250x200	INGRR60/300x200	INGRR60/350x200	INGRR60/400x200	INGRR60/450x200	INGRR60/500x200	INGRR60/550x200	INGRR60/600x200
250				INGRR60/250x250	INGRR60/300x250	INGRR60/350x250	INGRR60/400x250	INGRR60/450x250	INGRR60/500x250	INGRR60/550x250	INGRR60/600x250
300					INGRR60/300x300	INGRR60/350x300	INGRR60/400x300	INGRR60/450x300	INGRR60/500x300	INGRR60/550x300	INGRR60/600x300
350						INGRR60/350x350	INGRR60/400x350	INGRR60/450x350	INGRR60/500x350	INGRR60/550x350	INGRR60/600x350
400							INGRR60/400x400	INGRR60/450x400	INGRR60/500x400	INGRR60/550x400	INGRR60/600x400
450								INGRR60/450x450	INGRR60/500x450	INGRR60/550x450	INGRR60/600x450
500									INGRR60/500x500	INGRR60/550x500	INGRR60/600x500
550										INGRR60/550x550	INGRR60/600x550
600											INGRR60/600x600

Height [mm]	R40B / Width [mm] / Art. No.				
	100	150	200	250	300
100	INGRR120/100x100	INGRR120/150x100	INGRR120/200x100	INGRR120/250x100	INGRR120/300x100
150	INGRR120/100x150	INGRR120/150x150	INGRR120/200x150	INGRR120/250x150	INGRR120/300x150
200	INGRR120/100x200	INGRR120/150x200	INGRR120/200x200	INGRR120/250x200	INGRR120/300x200
250	INGRR120/100x250	INGRR120/150x250	INGRR120/200x250	INGRR120/250x250	INGRR120/300x250
300	INGRR120/100x300	INGRR120/150x300	INGRR120/200x300	INGRR120/250x300	INGRR120/300x300

It applies to all INTU FR GRILLES:

Standard size of grilles:

[WIDTH x HEIGHT]

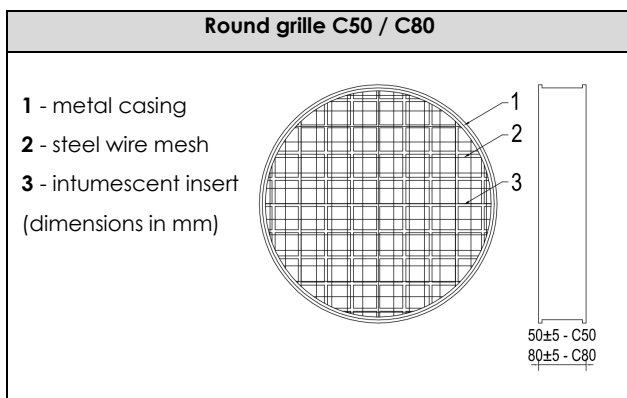
means:

[LARGER DIMENSION x SMALLER DIMENSION]

You can order **INTU FR GRILLE**
in any size – the price is set individually.

Height [mm]	R80 / Width [mm] / Art. No.										
	100	150	200	250	300	350	400	450	500	550	600
100	INGRR240/ 100x100	INGRR240/ 150x100	INGRR240/ 200x100	INGRR240/ 250x100	INGRR240/ 300x100	INGRR240/ 350x100	INGRR240/ 400x100	INGRR240/ 450x100	INGRR240/ 500x100	INGRR240/ 550x100	INGRR240/ 600x100
150		INGRR240/ 150x150	INGRR240/ 200x150	INGRR240/ 250x150	INGRR240/ 300x150	INGRR240/ 350x150	INGRR240/ 400x150	INGRR240/ 450x150	INGRR240/ 500x150	INGRR240/ 550x150	INGRR240/ 600x150
200			INGRR240/ 200x200	INGRR240/ 250x200	INGRR240/ 300x200	INGRR240/ 350x200	INGRR240/ 400x200	INGRR240/ 450x200	INGRR240/ 500x200	INGRR240/ 550x200	INGRR240/ 600x200
250				INGRR240/ 250x250	INGRR240/ 300x250	INGRR240/ 350x250	INGRR240/ 400x250	INGRR240/ 450x250	INGRR240/ 500x250	INGRR240/ 550x250	INGRR240/ 600x250
300					INGRR240/ 300x300	INGRR240/ 350x300	INGRR240/ 400x300	INGRR240/ 450x300	INGRR240/ 500x300	INGRR240/ 550x300	INGRR240/ 600x300
350						INGRR240/ 350x350	INGRR240/ 400x350	INGRR240/ 450x350	INGRR240/ 500x350	INGRR240/ 550x350	INGRR240/ 600x350
400							INGRR240/ 400x400	INGRR240/ 450x400	INGRR240/ 500x400	INGRR240/ 550x400	INGRR240/ 600x400
450								INGRR240/ 450x450	INGRR240/ 500x450	INGRR240/ 550x450	INGRR240/ 600x450
500									INGRR240/ 500x500	INGRR240/ 550x500	INGRR240/ 600x500
550										INGRR240/ 550x550	INGRR240/ 600x550
600											INGRR240/ 600x600

→ ROUND GRILLE - AVAILABILITY, FIRE RESISTANCE CLASS



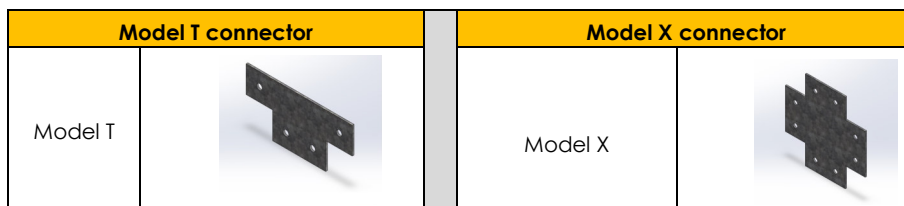
Grille type	Grille dimensions [mm]	Grille thickness [mm]	Fire resistance class	Scope of application
INTU FR GRILLE C50	Ø100 ÷ Ø400	50	EI 60	wall and floor
INTU FR GRILLE C80	Ø100 ÷ Ø400	80	EI 120	wall and floor

There is a possibility to order INTU FR GRILLE in **any size** - the price is set individually.

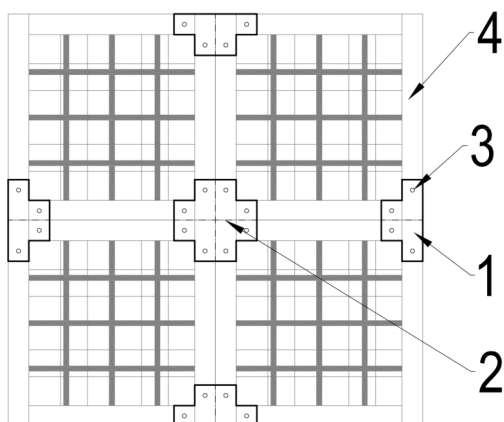
Fire resistance class	Diameter [mm] / Art. No.									
	100	125	150	160	200	250	300	315	350	400
C50	INGRC 60/100	INGRC 60/125	INGRC 60/150	INGRC 60/160	INGRC 60/200	INGRC 60/250	INGRC 60/300	INGRC 60/315	INGRC 60/350	INGRC 60/400
C80	INGRC 120/100	INGRC 120/125	INGRC 120/150	INGRC 120/160	INGRC 120/200	INGRC 120/250	INGRC 120/300	INGRC 120/315	INGRC 120/350	INGRC 120/400

→ CONNECTOR FOR INTU FR GRILLE

Connectors **model T** and **model X** are used to connect rectangular intumescent firestop ventilation grills **INTU FR GRILLE** to each other. Connectors should be attached to the metal casing using rivets or steel sheet metal screws.



→ HOW TO CONNECT INTU FR GRILLE



- 1 – Connector – **model T**
- 2 – Connector – **model X**
- 3 – steel rivet – Ø3mm
- 4 – intumescent grille **INTU FR GRILLE**

Apply a small amount of intumescent acrylic mastic (e.g. **INTU FR MASTIC**) for a grill along edge.

Fill all other joints and cavities with intumescent acrylic mastic (e.g. **INTU FR MASTIC**).

→ SOLUTION DETAILS

INTU FR GRILLE in rigid walls / rigid floors

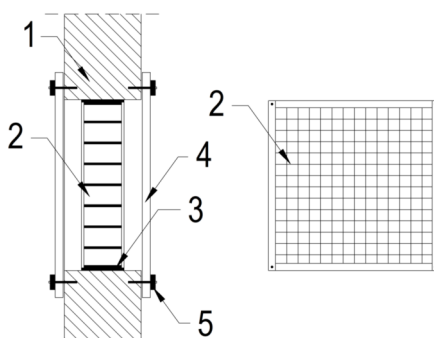


Fig. 1. Installation of INTU FR GRILLE in the wall

- 1 – rigid wall
- 2 - **INTU FR GRILLE** ventilation grille
- 3 - intumescent acrylic mastic e.g. **INTU FR MASTIC**
- 4 - masking plate (e.g. **INTU ATP**)
- 5 - steel screws

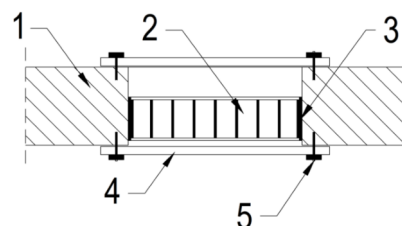


Fig. 2. Installation of INTU FR GRILLE in the floor

- 1 – rigid floor
- 2 - **INTU FR GRILLE** ventilation grille
- 3 - intumescent acrylic mastic e.g. **INTU FR MASTIC**
- 4 - masking plate (e.g. **INTU ATP**)
- 5 - steel screws