

# INTU FR GRILLE

*Intumescent FR grille*

TDS TECHNICAL DATA SHEET



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## Intumescent FR grille

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#### → 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.

	The wall must be minimum thickness 150 mm.
<b>Rigid wall:</b>	Must have concrete, cellular concrete or masonry structure, with minimum density 600kg/m <sup>3</sup> .
	The floor must be minimum thickness 150 mm.
<b>Rigid floor:</b>	Must have concrete, cellular concrete or masonry structure, with minimum density 1700kg/m <sup>3</sup> .

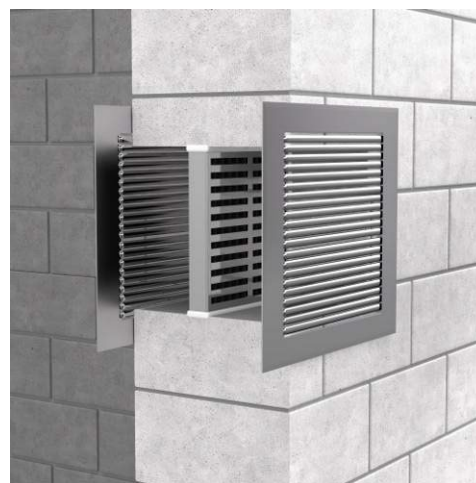
#### → AVAILABILITY

- round grille C50, C80 - Ø100 ÷ Ø400
- rectangular grille R40A - 100 x 100 ÷ 600 x 600
- 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/ZOONZP 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.

## INTU FR GRILLE

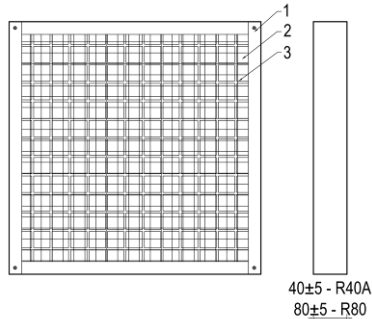
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#### ➔ RECTANGULAR GRILLE - AVAILABILITY, FIRE RESISTANCE CLASS

Rectangular grille R40A, R80

1 – metal casing  
2 – steel wire mesh  
3 – intumescent insert  
(dimensions in mm)



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 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

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.

## INTU FR GRILLE

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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

**Round grille C50 / C80**

1 - metal casing  
2 - steel wire mesh  
3 - intumescent insert  
(dimensions in mm)

50±5 - C50  
80±5 - C80

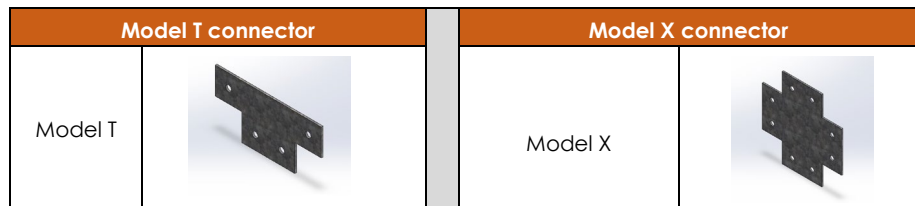
Grille type	Grille dimensions [mm]	Grille thickness [mm]	Fire resistance class	Scope of application
INTU FR GRILLE C50	Ø100 ÷ Ø400	50	EI 60	wall and floor
INTU FR GRILLE C80	Ø100 ÷ Ø400	80	EI 120	wall and floor

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.

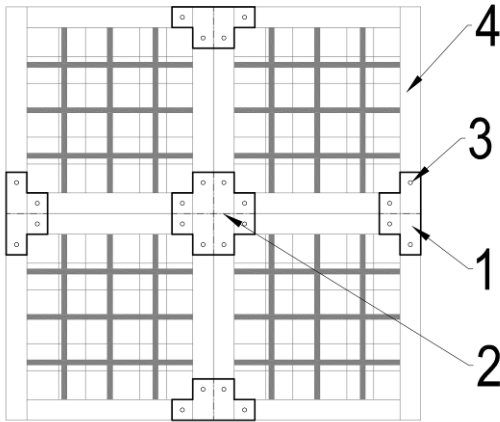


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### → HOW TO CONNECT INTU FR GRILLE



- 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		
		<p><b>Fig. 1. Installation of INTU FR GRILLE in the wall</b></p> <ul style="list-style-type: none"> <li>1 – rigid wall</li> <li>2 - <b>INTU FR GRILLE</b> ventilation grille</li> <li>3 - intumescent acrylic mastic e.g. <b>INTU FR MASTIC</b></li> <li>4 - masking plate (e.g. <b>INTU ATP</b>)</li> <li>5 - steel screws</li> </ul>
		<p><b>Fig. 2. Installation of INTU FR GRILLE in the floor</b></p> <ul style="list-style-type: none"> <li>1 – rigid floor</li> <li>2 - <b>INTU FR GRILLE</b> ventilation grille</li> <li>3 - intumescent acrylic mastic e.g. <b>INTU FR MASTIC</b></li> <li>4 - masking plate (e.g. <b>INTU ATP</b>)</li> <li>5 - steel screws</li> </ul>