Difair

Serie

INTU FR GRILLE



INTUMESCENT GRILLE
EI240

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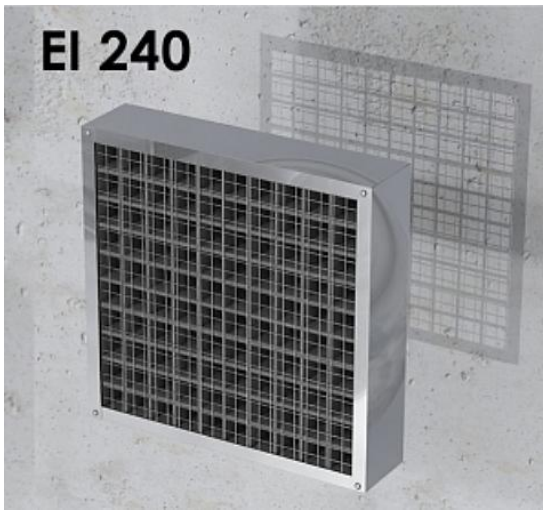
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DESCRIPTION

The intumescent ventilation grille "**INTU FR GRILLE"** consists of graphite-based blades and an outer metal frame. In the event of a fire, the graphite blades expand at temperatures of 140°C or higher, sealing off the opening. It guarantees protection against flames and gases in the event of a fire.



- Fire resistance: EI 240 wall / EI 180 floor.
- Open area up to 80%.
- Maximum size:
  - ✓ Rectangular grille: max. 300x300 mm (EI240).
- EI240 rating with 2 flat grilles (one on each side).

APLICATION



- **INTU FR GRILLES** are installed as fire-rated ventilation grilles in walls and floor slabs.
- **Rigid wall:** The wall must be at least 150 mm thick and made of concrete, aerated concrete, or a block structure with a minimum density of 600 kg/m³.
- **Forged (reinforced concrete):** The reinforced concrete must be at least 150 mm thick and made of concrete, aerated concrete, or a block structure with a minimum density of 1,700 kg/m³.

CERTIFICATIONS

- Certification Standards: ETAG 026-4
- DoP 2/2025
- Technical Assessment 00518/25/Z00NZP

FIRE RESISTANCE RATINGS AND CLASSIFICATIONS

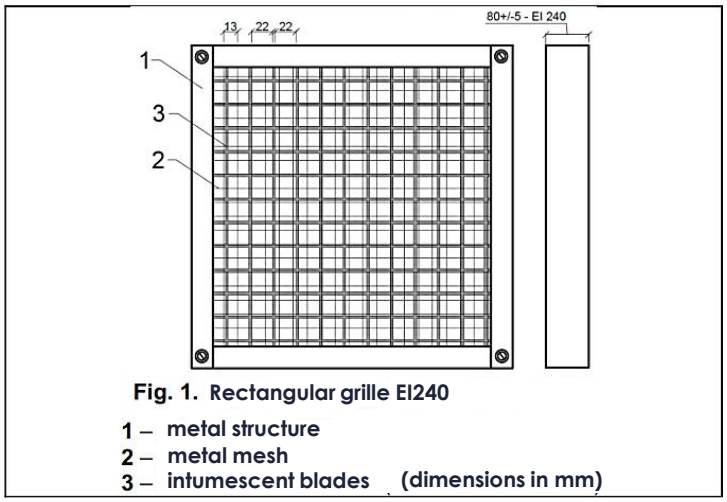


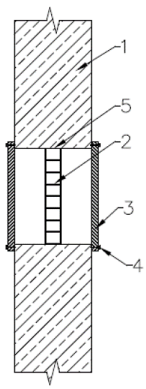
Fig. 1. Rectangular grille EI240

1 – metal structure
2 – metal mesh
3 – intumescent blades **(dimensions in mm)**

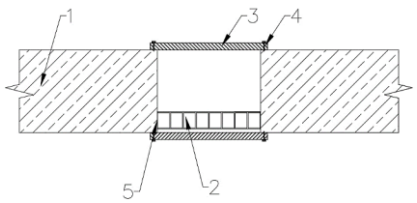
EI240 RECTANGULAR : CERTIFIED DIMENSIONS

H \ L	100	150	200	225	250	300
100	INGRR240 100X100	INGRR240 150X100	INGRR240 200X100	INGRR240 225X100	INGRR240 250X100	INGRR240 300X100
150		INGRR240 150X150	INGRR240 200X150	INGRR240 225X150	INGRR240 250X150	INGRR240 300X150
200			INGRR240 200X200	INGRR240 225X200	INGRR240 250X200	INGRR240 300X200
225				INGRR240 225X225	INGRR240 250X225	INGRR240 300X225
250					INGRR240 250X250	INGRR240 300X250
300						INGRR240 300X300

DETAILS OF CERTIFIED SOLUTIONS



1. Wall
2. INTU FR GRILLE
3. Flat grille
4. Screws
5. Intumescent sealant



1. Reinforced Concrete
2. INTU FR GRILLE
3. Flat grille
4. Screws
5. Intumescent sealant

IMPLEMENTATION

1. Apply a bead of intumescent sealant along the edges of the grille around the entire perimeter.
2. Place the grille in the opening.
3. Finish sealing the gaps along the perimeter with intumescent sealant.
4. Place a flat grille on each side of the partition.

TRANSPORTATION AND STORAGE

Store in a cool, dry place at a temperature between +5°C and +25°C.

FREE AREA TABLE

L (mm)	H (mm)	Afree (cm2)	Afree (%)
100	100	39,06	39,1%
150	100	67,19	44,8%
150	150	115,56	51,4%
200	100	93,75	46,9%
200	150	161,25	53,8%
200	200	225,00	56,3%
225	100	107,81	47,9%
225	150	185,44	54,9%
225	200	258,75	57,5%
225	225	297,56	58,8%
250	100	121,87	48,7%
250	150	209,62	55,9%
250	200	292,50	58,5%
250	225	336,37	59,8%
250	250	380,25	60,8%
300	100	150,00	50,0%
300	150	258,00	57,3%
300	200	360,00	60,0%
300	225	414,00	61,3%
300	250	468,00	62,4%
300	300	576,00	64,0%
350	100	177,97	50,8%
350	150	306,11	58,3%
350	200	427,12	61,0%
350	225	491,20	62,4%
350	250	555,26	63,5%
350	300	683,40	65,1%
350	350	810,83	66,2%

FREE AREA TABLE

L (mm)	H (mm)	Afree (cm2)	Afree (%)
400	100	204,69	51,2%
400	150	352,06	58,7%
400	200	491,43	61,4%
400	225	564,94	62,8%
400	250	638,62	63,9%
400	300	786,00	65,5%
400	350	932,56	66,6%
400	400	1076,10	67,3%
450	100	232,81	51,7%
450	150	400,44	59,3%
450	200	558,75	62,1%
450	225	642,56	63,5%
450	250	726,37	64,6%
450	300	894,00	66,2%
450	350	1060,69	67,3%
450	400	1223,96	68,0%
450	450	1387,56	68,5%
500	100	260,94	52,2%
500	150	448,81	59,8%
500	200	626,25	62,6%
500	225	720,19	64,0%
500	250	814,12	65,1%
500	300	1002,00	66,8%
500	350	1188,83	67,9%
500	400	1371,82	68,6%
500	450	1555,19	69,1%
500	500	1743,06	69,7%
550	100	287,66	52,3%
550	150	494,77	60,0%
550	200	690,37	62,8%
550	225	793,93	64,2%
550	250	897,49	65,3%
550	300	1104,60	66,9%
550	350	1310,56	68,1%
550	400	1512,29	68,7%
550	450	1714,43	69,3%
550	500	1921,54	69,9%
550	550	2118,30	70,0%
600	100	315,62	52,6%
600	150	542,87	60,3%
600	200	757,50	63,1%
600	225	871,12	64,5%
600	250	984,75	65,7%
600	300	1212,00	67,3%
600	350	1437,99	68,5%
600	400	1659,33	69,1%
600	450	1881,12	69,7%
600	500	2108,37	70,3%
600	550	2324,26	70,4%
600	600	2550,25	70,8%



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