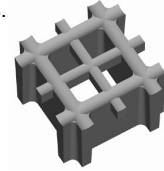


HEAVY-DUTY® ISO-FR SERIES - 50x25x25MM

TECHNICAL DATASHEET

- Type** : HEAVY DUTY® G.R.P. MOULDED ISO-FR SERIES GRATING TYPE 50x25x25MM
- Material** : Isophthalic fire retardant resin reinforced with continuous glass rovings.
Moulded gratings with bearing bars in both directions.
- Standard color** : Green RAL 6010
- Other common colors available** : Light-grey RAL 7035, grey RAL 7040, yellow RAL 1018 and 1003, blue RAL 5015, red RAL 3020.
- Density** : 1,5 – 2,0



Standard panel sizes

Width [mm]	Length [mm]	Thickness [mm]	Mesh pitch [mm]	Opening [mm]	Open area [%]	Weight [kg / m ²]	Weight per panel [kg]
1230	3665	50	25x25	17x17	55	28,5	129,0

Standardization : Meets DIN24537-3

Tolerances :

- Length, width ± 3 mm
- Thickness ± 1 mm
- Weight ± 5%
- Warping < 10mm / m¹
- Color deviation Close to specified RAL-code.

Load capacity : Load deflection data based on walkway applications L/D = 100 (= 1 %),

SPAN [mm]	1% deflection	
	Point load kgf	Uniform distributed load kgf/m ²
300	3800	34500
400	2907	26400
500	2348	13100
600	1970	7380
700	1700	4500
800	1498	2900
900	1338	2000
1000	1200	1500
1100	1104	1094
1200	1008	826
1300	862	592
1400	740	499
1500	650	400

Glass / resin mix ratio : Approx. 30 / 70 % by weight.

Fire retardancy :

1. Self-extinguishing, according to ASTM E 84-05.
2. B2 according to DIN 4102 Teil 1
3. Fire classification according to EN 13501-1 = B_{fl} – s1

Operating temperature range : - 40 °C / 65 °C.

Weathering : For inside and outside applications (UV resistant).
Report KPF 60/03.5 for DiBt on longterm resistancy to a harsh industrial environment

Environmental Approvals :

1. Non-hazardous according to DNV MTPO360 version 2007 Part 1
2. DNV Type Approval
3. ABS Design Assessment
3. TSUS certificate of product No. 00011/TSUS/P/2015

Others :

1. Not Electrical conductive, rel. conductivity 1.098 x 10¹⁷ Ω.mm².
2. Low thermal conductivity.
3. Voids, streaking and chip-outs according to Fiberstruct standards.
4. Explosion-free Group I and IIA according EN13463-1 annex C.(DNV)
5. Meets REACH EU 1907/2006