

TIPSASA FIRE RESISTANCE RATING REGISTER JANUARY 2020

Tested and classified in accordance with SANS 10177-2:2015

Fire Resistance test for building elements –

The shortest period for which a building insulation element or component will comply with the requirements for stability, and integrity.

Integrity			Stability					Insulation				
The system is deemed to have failed should flames be observed on the unexposed side or an opening larger than 6 mm wide or 150 mm long is noted.			The system is considered to fail structurally should the deflection be beyond the Neutral Axis (Deflection measured from unexposed side is more than 50 % of the wall thickness).					The temperature on the unexposed surface may not exceed 140 °C plus ambient temperature on average or 180°C plus ambient maximum at any of the measured surface positions.				
Product/System Brand Name	Manufacturer/Sole Distributor	System Thickness (mm)	Density kg/m ³	System Type	Combustibility	Integrity (min)	Stability (min)		Insulation (min)	Fire report number	Report date	Fire Resistance Rating
							Load bearing	Non-load bearing				
Combo Technopor FRCell	Technopol SA (Pty) Ltd	120	315	Wall	Combustible	30		30	30	FTC 17/066	2017-06-18	FR 30 Non-load bearing
Combo Technopor FRCell	Technopol SA (Pty) Ltd	150	400	Wall	Combustible	120		120	120	FTC 17/186	2017-11-22	FR 120 Non-load bearing
Isowall Sandwich Panel	Isowall Southern Africa	150	110	Wall	Non combustible	120		120	60	FTC17/221	2017/11/28	FR 60 Load Bearing
Phenolic Panel System	Isowall Southern Africa	100	-	Wall	Non combustible	30		30	30	FTC18/327	2019/04/04	FR 30 Non-load bearing

Notes:

1. Thermal Insulation products are generally tested for fire spread. See TIPSASA Fire Register.
2. Fire resistance is often confused with flame spread and fire retardant abilities.
3. Flame spread is controlled with a fire retardant. The incorporation of a fire retardant does not make a product “safe” or non-combustible, it may make it more difficult to ignite and slow down the rate of combustion or ease of ignition, allowing safe evacuation.
4. Thermal Insulation is not intended as fire barriers, unless designed and tested in accordance with: SANS 10177-2: Fire Resistance test for building elements – The shortest period for which a building insulation element or component will comply with the requirements for stability, and integrity.