



TIAASA MEMBERS FIRE PERFORMANCE CLASSIFICATION REGISTER – JANUARY 2010 Ed.1

Products listed alphabetically – this fire register supersedes all previous published fire registers.

TIAASA PRODUCTS TESTED AND CLASSIFIED IN ACCORDANCE WITH SANS 428:2007				
CEILING INSULATION – INSTALLED ON TOP OF CEILING IN RESIDENTIAL OR COMMERCIAL BUILDINGS				
Product Name & Code	Insulation Manufacturer / Sole Distributor	Fire Report Number	Report Date	Fire Classification
*Eco Insulation (Cellulose Fibre)	Eco Insulation	FTC07-009	20/12/2007	B/B1/2
*Isotherm (Polyester Fibre un-faced)	Brits Non-woven	FTC07-066	22/08/2007	B/B1/2
*Starlite (Un-faced Acrylic Fibreglass)	D&D Roof Insulations	FTC07-130	24/10/2007	A/A1/1
*Thermguard (Cellulose Fibre)	Thermguard	FTC07-129	20/12/2007	B/B1/2
*ThermocousTex (Fibrous Polyester un-faced)	Frame Industrials (Pty) Ltd	FTC08-033a	15/05/2008	B/B1/2
*ThermocousTex Plasterboard (un-faced)	Frame Industrials (Pty) Ltd	FTC08-081a	01/09/2008	B/B2/3
ROOF INSULATION INSTALLED UNDER ROOF OVER PURLIN & SIDE CLADDING OF INDUSTRIAL BUILDINGS				
Product Name & Code	Insulation Manufacturer / Sole Distributor	Fire Report Number	Report Date	Fire Classification
*Alububble D10 Code 2906	Khanyisa Africa Dev Co.	FTC09-003	28/03/2009	B/B1/2/H only (USP)
*Alububble Double Sided Code 1983	Khanyisa Africa Dev Co.	FTC09-105	21/09/2009	B/B1/2/H only (SP)
*Alucushion FR D10 Code 2906	Sealed Air Africa (Pty) Ltd	FTC07-126	04/11/2007	B/B1/2/H only (SP)
*Alucushion FR D10 Code 2906	Sealed Air Africa (Pty) Ltd	FTC07-126	04/11/2007	B/B3/3/H only (USP)
*Alucushion FR D10 Code 1983	Sealed Air Africa (Pty) Ltd	FTC08-064	28/07/2008	B/B1/2/H only (SP)
*Alutherm (Bubble Faced)	Khanyisa Africa Dev Co.	FTC07-102	04/09/2007	B/B1/2/H only (USP)
* BFR D12 White Industrial SP	Bhamuza	FTC08-002a	27/02/2008	B/B1/2/H only (SP)
* BFR D12 White Industrial	Bhamuza	FTC09-078	15/08/2009	B/B1/2/H only (USP)
* BFR D12 White Domestic	Bhamuza	FTC08-072	10/08/2008	B/B4/4/H only (USP)
*Enviro-tuff 203 FR	Rhino Plastics (Pty) Ltd	FTC08-133	03/02/2009	B/B1/2/H only (USP)
*EPS styFRene (Un-faced)	Automa Multi Styrene	FTC06-075	13/12/2006	B/B1/2/HV (SP & USP)
*EPS styFRene (Un-faced)	Hebcooler	FTC06-075	13/12/2006	B/B1/2/HV (SP & USP)
*EPS styFRene (Un-faced)	Isolite	FTC06-075	13/12/2006	B/B1/2/HV (SP & USP)
*EPS styFRene (Un-faced)	Sagex	FTC06-075	13/12/2006	B/B1/2/HV (SP & USP)
*EPS styFRene (Un-faced)	Technopol	FTC06-075	13/12/2006	B/B1/2/HV (SP & USP)
*Isoboard XPS (Un-faced)	Isofoam SA (Pty) Ltd	FTC05-051	30/11/2007	B/B1/2/HV (SP & USP)
*Isoboard XPS (Faced)	Isofoam SA (Pty) Ltd	FTC05-051	30/11/2007	B/B6/6
*Isolam EPS (White Faced)	Isolite (Pty) Ltd	FTC06-082	15/03/2007	B/B1/2/HV (SP & USP)
*Massterliner (White faced) ML W/F50	IC & D	FTC09-032	01/06/2009	B/B1/2/H (USP)
*Massterliner (Foil faced)	IC & D	FTC09-150	15/12/2009	B/B1/2/H (USP)
*Sisalation FR 405	Nampak L&CP	FTC 08-039	07/06/2008	B/B1/2/HV (SP & USP)
*Sisalation FR 430	Nampak L&CP	FTC 08-089	04/09/2008	B/B1/2/HV (SP & USP)
*Starlite (White Lamtec Foil Faced)	D&D Roof Insulations	FTC05-071	08/09/2005	B/B1/2/HV (SP & USP)
*Starlite (Foil Faced)	D&D Roof Insulations	FTC09-046	13/07/2009	B/B1/2/HV (SP & USP)
*Thermocous Tex Board (Un-faced)	Frame Industrials (Pty) Ltd	FTC07-149	05/12/2007	B/B1/2/H only (SP & USP)
*Thermocous Tex Board (Vinyl Faced)	Frame Industrials (Pty) Ltd	FTC08-033b	16/05/2008	B/B1/2/H only (SP & USP)
*Thermocous Tex Acoustical Board (Un- Faced)	Frame Industrials (Pty) Ltd	FTC08-033b	16/05/2008	B/B1/2/H only (USP)
(SP) indicate classification obtained when tested protected by a sprinkler system and / or (USP) the classification obtained when not protected by a sprinkler system. Permissible application H - Horizontal and/or V – Vertical (see page 2).				
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PRODUCT IDENTIFICATION CLASSIFICATION IN ACCORDANCE WITH SANS 428

The classification is required in terms of SANS 10400 Part T Fire Protection, of the Application of the National Building Regulations. The classified products shall bear the manufacturer's name; date manufactured, batch number, trade name and SANS 428 Classification. This classification shall be fixed permanently to the original product and container/packaging and include the end-use conditions of approval, i.e. Fire Performance Classification. The classification remains valid for a period of five calendar years from date of issue, unless cancelled or revoked. These classifications apply only to the specimens tested. Should the relevant South African National Standards be amended during the validity of this classification period, the product is to be re-tested in accordance with the amended SANS standards

Combustibility	Surface Fire Properties	Use per Occupancy	Application
Example: A / A1 / 1 / HV			
A	A1	1	HV
Non-combustible	No flame spread	No limitations	Horizontal & Vertical
Example: B / B1 / 2 / HV			
B	B1	2	HV
Combustible	No flame spread	All occupancies, except for those listed in DSS SANS 10400:2007 Part T (see below)	Horizontal & Vertical

DSS SANS 10400:2007 Part T

Ceilings: In any building that is not a building classified as E4, H3, H4 and H5, combustible material shall not be used for any ceiling or suspended ceiling, or as a component thereof, **except** as provided for in the following: a) An insulation, roof lining or ceiling tested in accordance with SANS 10177-5 and found to be combustible, shall be acceptable if it complies with the requirements of SANS 428 when tested in accordance with SANS 10177-10, provided that this requirement shall not apply where the thickness of such combustible material is less than 0,5 mm and such finish adheres fully to a non-combustible substrate. When any insulation, roof lining or waterproof membrane not envisaged as a ceiling and used under a roof covering as part of a roof or wall assembly (thermal insulated building envelope), is tested in accordance with SANS 10177-5 and found to be combustible, such material shall be acceptable if (a) it complies with the requirements of SANS 428 when tested in accordance with SANS 10177-10 and b) its classification has been confirmed in accordance with SANS 10177-11 with regard to use and application.

Classification Type Combustibility	Class	Description of materials behaviour and occupancies
	A	Non-combustible
	B	Combustible
Surface Fire Properties		
	A1 or B1	No flame spread
	A2 or B2	Low flame spread (no flaming droplets or burning brand)
	A3 or B3	Low flame spread (with flaming droplets or burning brand)
	A4 or B4	Average flame spread (no flaming droplets or burning brand)
	A5 or B5	Average flame spread (with flaming droplets or burning brand)
	A6 or B6	Rapid fire spread
Occupancy and class of occupancy description (use or limitation) in accordance with occupancy classifications see SANS 10400-A		
	1	No limitations
	2	All occupancies, except for the proviso listed in SANS 10400-T
	3	All single-storey and double-storey buildings, except A1, C1, C2, E1, E2, E3, E4, H1 and H2
	4	All single-storey buildings, except A1, C1, C2, D1, E1, E2, E3, E4, H1 and H2
	5	All single-storey buildings, except A1, A2, A3, C1, C2, D1, E1, E2, E3, E4, F1, F3, G1, H1, H2, J1 and J4
	6	Not acceptable for any application
Permissible Application		
Tested with or without sprinklers: SP: Protected by a sprinkler system. USP: Not protected by a sprinkler system.	H	Horizontal (under-roof) only
	V	Vertical (side cladding) only
	HV	Horizontal and vertical application

OCCUPANCY OR BUILDING CLASSIFICATION IN ACCORDANCE WITH SANS 10400 PART A

Class of Occupancy	Occupancy
A1	Entertainment & Public Assembly - Occupancy where persons gather to eat, drink, dance or participate in other recreation
A2	Theatrical & indoor sport - Occupancy where persons gather for the viewing of theatrical, operatic orchestral, choral, cinematographical or sport performances.
A3	Places of instruction - Occupancy where school children, students or other persons assemble for the purpose of tuition or learning.
A4	Worship - Occupancy where persons assemble for the purpose of worshipping.
A5	Outdoor sport - Occupancy where persons view outdoor sports events.
B1	High risk commercial service - Occupancy where a non-industrial process is carried out and where either the material handled or the process carried out is liable, in the event of fire, to cause combustion with extreme rapidity or give rise to poisonous fumes, or cause explosions.
B2	Moderate risk commercial service - Occupancy where a non-industrial process is carried out and where either the material handled or the process carried out is liable, in the event of fire, to cause combustion with moderate rapidity but is not likely to give rise to poisonous fumes, or cause explosions
B3	Low risk commercial service - Occupancy where a non-industrial process is carried out and where neither the material handled nor the process carried out falls into the high or moderate risk category.
C1	Exhibition hall - Occupancy where goods are displayed primarily for viewing by the public.
C2	Museum - Occupancy comprising a museum, art gallery or library.
D1	High risk industrial - Occupancy where an industrial process is carried out and where either the material handled or the process carried out is liable, in the event of fire, to cause combustion with extreme rapidity or give rise to poisonous fumes, or cause explosions.
D2	Moderate risk industrial - Occupancy where an industrial process is carried out and where either the material handled or the process carried out is liable, in the event of fire, to cause combustion with moderate rapidity but is not likely to give rise to poisonous fumes, or cause explosions.
D3	Low risk industrial - Occupancy where an industrial process is carried out and where neither the material handled nor the process carried out falls into the high or moderate risk category
D4	Plant room - Occupancy comprising usually unattended mechanical or electrical services necessary for the running of a building.
E1	Place of detention - Occupancy where people are detained for punitive or corrective reasons or because of their mental condition
E2	Hospital - Occupancy where people are cared for or treated because of physical or mental disabilities and where they are generally bed-ridden
E3	Other institutional (residential) - Occupancy where groups of people who either are not fully fit, or who are restricted in their movements or their ability to make decisions, reside and are cared for.
E4	Health care – Occupancy which is a common place of long term or transient living for a number of unrelated persons consisting of a single unit on its own site who, due to varying degrees of incapacity, are provided with personal care services or are undergoing medical treatment.
F1	Large shop - Occupancy where merchandise is displayed and offered for sale to the public and the floor area exceeds 250 m ²
F2	Small shop - Occupancy where merchandise is displayed and offered for sale to the public and the floor area does not exceed 250 m ²
F3	Wholesalers' store - Occupancy where goods are displayed and stored and where only a limited selected group of persons is present at any one time.
G1	Offices - Occupancy comprising offices, banks, consulting rooms and other similar usage.
H1	Hotel - Occupancy where persons rent furnished rooms, not being dwelling units.
H2	Dormitory - Occupancy where groups of people are accommodated in one room.
H3	Domestic residence - Occupancy consisting of two or more dwelling units on a single site.
H4	Dwelling house - Occupancy consisting of a dwelling unit on its own site, including a garage and other domestic outbuildings, if any.
H5	Hospitality – Occupancy where unrelated persons rent furnished rooms on a transient basis within a dwelling house or domestic residence with sleeping accommodation for not more than 16 persons within a dwelling unit.
J1	High risk storage - Occupancy where material is stored and where the stored material is liable, in the event of fire, to cause combustion with extreme rapidity or give rise to poisonous fumes, or cause explosions.
J2	Moderate risk storage - Occupancy where material is stored and where the stored material is liable, in the event of fire, to cause combustion with moderate rapidity but is not likely to give rise to poisonous fumes, or cause explosions.
J3	Low risk storage - Occupancy where the material stored does not fall into the high or moderate risk category.
J4	Parking garage - Occupancy used for storing or parking of more than 10 motor vehicles.