

Product/Brand Name	Thick (mm)	Type	Insulation manufacturer / Sole distributor	Fire report number	Report date	Fire Classification
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Table 1: BULK INSULATION (Flexible or Loose fill) register

[Generally installed on top of ceiling in Residential or Commercial Buildings]

Note: Bulk ceiling insulation is generally un-faced UNLESS SPECIFIED which then changes the product classification

*Eco Insulation	75	Cellulose fibre	Eco Insulation	FTC07-009	2007/12/20	B/B1/2/H
*Ecotherm (Colour Green)	130	Polyester fibre	Polybond	FTC10-031	2010/05/04	B/B1/2/H
*Fabufill (Colour White)	100	Polyester fibre	Platinum Fibre	FTC11-085	2011/09/19	B/B1/2/H
*Isotherm (Colour Green)	100	Polyester fibre	Brits Non-woven	FTC07-066	2007/08/22	B/B1/2/H
*Polytherm (Colour White)	160	Polyester fibre	Polybond	FTC10-019	2010/04/09	B/B1/2/H
*Romatherm (Off-white)	100	Polyester fibre	Datlink	FTC11-116	2011/10/26	B/B1/2/H
*Starlite AC (Colour White)	100	Acrylic fibreglass	D & D Roof Insulations	FTC07-130	2007/10/24	A/A1/1/H
*Thermguard	75	Cellulose fibre	Thermguard	FTC07-129	2007/12/20	B/B1/2/H
*Thermocous Tex Black	40	Polyester fibre	Frame Industrials	FTC08-033a	2008/05/15	B/B1/2/H



SAFETY ALERT – CEILING INSULATION



Surrounding electrical cables and wiring: Where possible the electrical cable and wiring should be placed above the insulation.

Recessed ceiling lights (Down lights) -The presence of electrical fittings and wiring may necessitate a reduction or removal of insulation in some areas. For example, do not put insulation over or around recessed light fittings like down lights mounted in the ceiling and transformers - leave a minimum gap of 50mm around their perimeters free of insulation to allow heat generated by the light fitting to dissipate.

Table 2: BULK INSULATION (Rigid un-faced) register

[Installed as nail up or suspended ceiling]

Note: Rigid bulk insulation is generally un-faced UNLESS SPECIFIED which then changes the product classification

*Thermocous Tex Plain	25	Polyester board	Frame Industrials	FTC07-149	2007/12/15	B/B1/2/H (SP & UPS)
*ThermocousTex PlasterBoard	25	Polyester board	Frame Industrials	FTC08-081a	2008/09/01	B/B2/3/H

Table 3: BULK INSULATION (Rigid faced) register

[Installed as nail up or suspended ceiling]

*Thermocous Tex Metroboard	60	Polyester/Vinyl	Frame Industrials	FTC09-049	2009/07/04	B/B1/2/H (USP)
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Table 4: BULK INSULATION (Rigid un-faced) register

[Generally installed under roof & over purlins and/or side cladding in buildings]

Note: Bulk rigid insulation is generally un-faced UNLESS SPECIFIED which then changes the product classification

*Isoboard	30	XPS	Isofoam SA (Pty) Ltd	FTC05-051	2007/11/30	B/B1/2/HV (SP & USP)
*Isoboard	80	XPS	Isofoam SA (Pty) Ltd	FTC10-103	2010/10/07	B/B1/2/HV (SP & USP)
*Pearl Board XPS	100	XPS	Pearl Star 90 cc	FTC11-046	2011/05/06	B/B1/2/H (USP)
*StyFRene	80	EPS	Automa Multi Styrene	FTC06-075	2006/12/13	B/B1/2/HV (SP & USP)
*StyFRene	80	EPS	Isolite (Pty) Ltd	FTC06-075	2006/12/13	B/B1/2/HV (SP & USP)
*StyFRene	80	EPS	Sagex	FTC06-075	2006/12/13	B/B1/2/HV (SP & USP)
*StyFRene	80	EPS	Technopol	FTC06-075	2006/12/13	B/B1/2/HV (SP & USP)
*Thermocous Tex Plain	30	Polyester board	Frame Industrials	FTC10-007	2010/03/12	B/B1/2/V (USP)
*Thermocous Tex Plain	120	Polyester board	Frame Industrials	FTC08-049	2008/12/01	B/B1/2/H (USP)

Table 5: COMPOSITE BULK INSULATION – Flexible (Faced) register

[Generally installed under roof & over purlins and/or side cladding in buildings]

Note: Composite flexible bulk is a combination of a facing/reflective foil/vinyl and a bulk insulation material (Blanket)

*Alutherm Polyester	50	Bubble foil/Poly	Africa Thermal Insulation	FTC07-102	2007/09/04	B/B1/2/H (USP)
*Alutherm Fibre Glass	50	Bubble foil/Glass	Africa Thermal Insulation	FTC10-001	2010/03/11	B/B1/2/H (USP)
*Massterline White Faced	50	Foil/Fiberglass	IC & D	FTC09-032	2009/06/01	B/B1/2/H (USP)
*Massterline Foil Faced	50	Foil/Fiberglass	IC & D	FTC09-150	2009/12/15	B/B1/2/H (USP)
*Massterline PF Foil Faced	100	Foil/Fiberglass	IC & D	FTC10-162	2011/02/02	A - Non-combustible
*Massterline AC Foil Faced	100	Foil/Fiberglass	IC & D	FTC10-162	2011/02/02	A - Non-combustible
*Starlite AC (Acrylic) White Faced	50	Foil/Fiberglass	D & D Roof Insulations	FTC05-071	2005/09/08	B/B1/2/HV (SP & USP)
*Starlite AC (Acrylic) Foil Faced	50	Foil/Fiberglass	D & D Roof Insulations	FTC09-046	2009/07/13	B/B1/2/HV (SP & USP)
*Starlite (Glass Fibre) White Faced	100	Foil/Fiberglass	D & D Roof Insulations	FTC10-133	2010/12/02	A - Non-combustible
*Starlite PH (Phenolic) Foil Faced	100	Foil/Fiberglass	D & D Roof Insulations	FTC11-060	2011/07/25	A - Non-combustible
*Starlite PH (Phenolic) White Faced	100	Foil/Fiberglass	D & D Roof Insulations	FTC11-060	2011/07/25	A - Non-combustible

Table 6: COMPOSITE BULK INSULATION – Rigid (Faced) register

[Generally installed under roof & over purlins and/or side cladding in buildings]

Note: Composite rigid bulk is a combination of a facing/reflective foil/vinyl and a bulk insulation material (Board)

*Isoboard XPS (faced)	30	Foil/XPS	Isofoam SA (Pty) Ltd	FTC05-051	2007/11/30	B/B6/6
*Isolam EPS White Faced	40	Foil/EPS	Isolite (Pty) Ltd	FTC06-082	2007/03/15	B/B1/2/HV (SP & USP)
*Thermocoustex Board White Faced	35	Polyester/Vinyl	Frame Industrials	FTC08-033b	2008/05/16	B/B1/2/H
*Thermocous Tex Metro	60	Polyester/Grey	Frame Industrials	FTC09-049	2009/07/04	B/B1/2/H (USP)

*All information, recommendation or advice contained in this publication is given in good faith to the best of AAAMSA knowledge and based on current procedures in effect.

Table 7: REFLECTIVE FOIL LAMINATES and/or RADIANT BARRIER register

[Generally installed under roof & over rafters/purlins and/or side cladding in Industrial Buildings]

Product/Brand Name	Type	Insulation manufacturer / Sole distributor	Fire report number	Report date	Fire Classification
*Alububble D10 Code 2906 single	Bubble foil	Africa Thermal Insulation	FTC09-003	2009/03/28	B/B1/2/H (USP)
*Alububble D10 Code 1983 double	Bubble foil	Africa Thermal Insulation	FTC09-105	2009/09/21	B/B1/2H (SP)
*Alucushion FR D10 Code 2906	Bubble foil	Sealed Air Africa	FTC07-126	2007/11/04	B/B1/2/H (SP)
*Alucushion FR D10 Code 2906	Bubble foil	Sealed Air Africa	FTC07-126	2007/11/04	B/B3/3/H (USP)
*Alucushion FR D10 Code 1983	Bubble foil	Sealed Air Africa	FTC08-064	2008/07/28	B/B1/2/H (SP)
*BFR D12 White Industrial SP	Bubble foil	Bhamuza	FTC08-002a	2008/02/27	B/B1/2/H (SP)
*BFR D12 White Industrial	Bubble foil	Bhamuza	FTC09-078	2009/08/15	B/B1/2/H (USP)
*BFR D12 White Domestic	Bubble foil	Bhamuza	FTC08-072	2008/08/10	B/B4/4/H (USP)
*Enviro-tuff 203 FR	Foil	Rhino Plastics (Pty) Ltd	FTC08-133	2009/02/03	B/B1/2/H (USP)
*Sisalation FR 405	Foil	Afripack Coatings	FTC08-039	2008/06/07	B/B1/2/HV (SP & USP)
*Sisalation FR 430	Foil	Afripack Coatings	FTC08-089	2008/09/04	B/B1/2/HV (SP & USP)
*Spunsulation 5 Industrial	Foil	Spunchem Africa	FTA09-078	2009/10/10	B/B1/2/HV (USP)
*Spunsulation 5 Industrial	Foil	Spunchem Africa	FTA09-078	2009/10/10	B/B3/3/HV (USP)

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Fire performance classification of thermal insulated building envelope systems in accordance with SANS 428

The fire performance classification of products is required in terms of SANS 10400 Part T Fire Protection. Refer section 4.5 subsection 4.5.3, section 4.12 subsection 4.12.1.5, and section 4.13 subsection 4.13.1; which states, quote "When any insulation, roof lining or waterproof membrane not used as a ceiling and used under a roof covering as part of a roof assembly, is tested in accordance with SANS 10177-5 and found to be combustible, such material shall be acceptable should it be classified, marked and installed in accordance with the requirements of SANS 428" unquote.

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

Example of classification

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	Occupancy Classes as listed for use	Horizontal & Vertical

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 Regulation A20

	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, H1 and H2
	4	All single-storey buildings, except A1, C1, C2, D1, E1, E2, E3, H1 and H2
	5	All single-storey buildings, except A1, A2, A3, C1, C2, D1, E1, E2, E3, 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 Regulation A20

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.