



**Table 1: BULK INSULATION (Flexible or Loose fill) Database [Generally installed on top of ceiling in buildings]**  
Note: Bulk ceiling insulation is generally un-faced UNLESS SPECIFIED which then changes the product classification

**SAFETY ALERT – CEILING INSULATION**

Heat-producing fixtures should be isolated from the thermal insulation to prevent fire hazards. These include recessed lighting fixtures.  
Install non-combustible downlight protection covers, to protect the insulation.

PRODUCT/ BRAND NAME	THICKNESS (mm)	TYPE	INSULATION MANUFACTURER / SOLE DISTRIBUTOR	SANS 428 CLASSIFICATION 2024			SANS 53501-1 CLASSIFICATION 2024/2025						
				REPORT NUMBER	REPORT DATE	CLASSIFICATION	REPORT DATE	REPORT NUMBER	CLASSIFICATION	SANS 11820	SANS 1743	SANS 53823	SANS 11925-2
*Aerolite	135	Glass wool	Isover Saint-Gobain	FTC13-088	2013/08/20	A/A1/1	2024-05-22	IT 24-05-00013	A1	*	*		
*Energylite	50	Glass wool	Isover Saint-Gobain				2024-09-28	IT 24-09-00043	A1	*	*		
*Fabufill	50	Polyester fibre	Platinum Fibre	BCT-180627-00051	2018/06/28	B/B2/2 H							
*Factorylite Basewool	135	Glass Wool	Isover Saint-Gobain				2024-09-26	IT 24-09-00050	A1				
*Granric Energywool	135	Glass wool	Brits Nonwoven				2024-04-15	IT 24-04-00006	A1	*	*		
*Granric Flexiwool	135	Glass wool	Brits Nonwoven				2024-04-12	IT 24-04-00007	A1	*	*		
*Isotherm	145	Polyester fibre	Brits Nonwoven	FTC17-082	2017/05/12	B/B1/2 H							
*Knauf Ceiling Roll	50	Mineral Wool	Knauf Insulation	FTC18-005 (2)	2018/04/19	A/A1/1	2023-08-10	0402-CPR-C000007	A1	*	*		
*Knauf Ceiling Roll	135	Mineral Wool	Knauf Insulation	FTC17-006	2017/10/18	A/A1/1	2023-08-10	0402-CPR-C000007	A1	*	*		
*Starfibre	135	Polyester fibre	D&D Roof Insulations	FTC 15-142	2016/01/05	B/B2/2 H							
*Starlite (Acrylic)	135	Acrylic fibre	D&D Roof Insulations	FTC14-007	2014/05/16	A/A1/1							
*Thermguard/Eco Insulation	100	Cellulose Fibre	Thermguard CC	BCT-200326-00063	2020/03/26	B/B1/2 H	2024-04-04	IT 24-04-00003	B-s2, d0			*	*
*Thermo-Floc Glass Wool Loose	135	Glass Wool	Fibreglass & Allied Prod	BCT-210520-00085B	2021/06/15	A/A1/1							
*T&C's apply													



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Classification using test data from reaction to fire tests.

**SPECIFIERS SHOULD ALREADY USE THE NEW SANS 53501-1 FOR 2025**

**Table 2: BULK INSULATION (Rigid Faced & Un-faced) Database [Installed as suspended ceiling]**

PRODUCT/ BRAND NAME	THICKNESS (mm)	TYPE	INSULATION MANUFACTURER / SOLE DISTRIBUTOR	SANS 428 CLASSIFICATION 2024			SANS 53501-1 CLASSIFICATION 2025							
				REPORT NUMBER	REPORT DATE	CLASSIFICATION	REPORT DATE	REPORT NUMBER	CLASSIFICATION	SANS 11820	SANS 1743	SANS 53823	SANS 11925-2	
*LiteSpan Ceiling PanelFRCel15	50 -100	EPS	Technopol SA	FTC18-284(2)	2019/02/05	B/B1/2/H only (USP)								
*LiteSpan Ceiling PanelFRCel12	50 -120	EPS	Technopol SA	FTC19-117	2019/08/08	B/B1/2/H only (SP & USP)								
*Polycool Faced	70	EPS	Technopol SA	FTC17-104	2017/07/24	B/B1/2/H only (USP)								

**Table 3: BULK INSULATION – Rigid un-faced Database [Generally installed in cavity walls]**

*Cavitylite/Cavitybatt	102	Glass Wool	Saint-Gobain Isover	FTC17-196 R1	2017/10/12	A/A1/1	2024-09-25	IT 2024-09-00044	A1	*	*			
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**Table 4: BULK INSULATION (Rigid un-faced) Database [Generally installed under roof & over purlins and/or side cladding in buildings]**

*FRCel 18DV	120	EPS	Technopol SA	FTC19-194	2019/10/21	B/B1/2/H (SP & USP)								
*FRCel 20DV	60	EPS	Technopol SA				2023-08-04	IT 23-08-00009	B-s1, d0			*	*	
*Isoboard	80	XPS	Isofoam SA (Pty) Ltd	FTC15-029	2015/08/24	B/B1/2/H&V (SP & USP)								
*Summit XPS	80	XPS	Swartland Insulation	FTC19-117	2020/10/13	B/B1/2/H&V (SP & USP)	2023-02-16	IT 23-02-00001	B-s1, d1		*	*	*	*

**Table 5: COMPOSITE BULK INSULATION – Rigid (Faced) Database [Generally installed under roof & over purlins and/or side cladding in buildings]**

*Acoustisorb Black/ White/Grey	50	Polyester	Brits Nonwoven	FTC19-074	2019/06/14	B/B1/2/H&V (SP & USP)								
*Factoryboard WMF	50	Glass Wool	Saint-Gobain Isover	FTC10-169	2011/03/02	B/B1/2/H&V (SP & USP)								
*Factoryboard Foil Faced	50	Glass Wool	Saint-Gobain Isover	FTC10-132	2010/12/01	B/B1/2/H&V (SP & USP)								
*Supacool White Faced	50	Faced/EPS	Technopol	FTC16-208(R1)	2016/11/16	B/B1/2/H only (USP)								
*Thermosonic	11	Faced/GW	Brits Nonwoven				2024-04-15	2024-04-00009	A1	*	*			
*T&C's apply														



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**SPECIFIERS SHOULD ALREADY USE THE NEW SANS 53501-1 FOR 2025**

**Table 6: COMPOSITE BULK INSULATION – Flexible (Faced) Database [Generally installed under roof & over purlins and/or side cladding in buildings]**

PRODUCT/ BRAND NAME	THICKNESS (mm)	TYPE	INSULATION MANUFACTURER / SOLE DISTRIBUTOR	SANS 428 CLASSIFICATION 2024			SANS 53501-1 CLASSIFICATION 2025							
				REPORT NUMBER	REPORT DATE	CLASSIFICATION	REPORT DATE	REPORT NUMBER	CLASSIFICATION	SANS 11820	SANS 1743	SANS 53823	SANS 11925-2	
*Acoustisorb Black Liner	50	Polyester	Brits Nonwoven	FTC19-074	2019/06/14	B/B1/2/H&V (SP & USP)								
*Alucool Black Faced	135	Mineral Wool	ATI				2024-04-15	IT 24-04-00005	A2-s3, d1	*		*		
*Alucool FKP	135	Glass Wool	ATI	FTC19-019	2019/04/15	A/A1/1								
*Ductwrap Foil Faced	50	Glass Wool	Saint-Gobain Isover	FTC18-149	2018/08/27	A/A1/1	2024-09-26	IT 24-09-00048	A2-s1, d0	*		*		
*FRK Duct Insulation	50	Glass Wool	Brits Nonwoven				2024-08-30	IT 24-05-00017	A2-s1, d0	*		*		
*Factorylite WMF	135	Glass Wool	Saint-Gobain Isover	BTC19-00052A	2019/02/27	A/A1/1								
*Factorylite Foil Faced	135	Glass Wool	Saint-Gobain Isover	BTC19-00052B	2019/02/27	A/A1/1	2024-09-26	IT 24-09-00047	A2-s1, d0	*		*		
*Granric MBI Foil Faced	135	Glass Wool	Brits Nonwoven/Granric	FTC18-222	2023/08/28	A/A1/1	2024-07-10	IT 2024-07-00035	A2-s1, d0	*		*		
*Granric MBI White Faced	135	Glass Wool	Brits Nonwoven/Granric	FTC18-223	2023/08/28	A/A1/1	2024-07-11	IT 2024-07-00042	A2-s1, d0	*		*		
*Sonic Liner Black Faced	25	Glass Wool	Saint-Gobain Isover	FTC18-144	2018/07/30	A/A1/1	2024-09-25	IT 24-09-00045	A1	*	*			
*Starlite White Faced	135	Glass Wool	D & D Roof Insulations	FTC19-041	2019/05/27	A/A1/1								
*Starlite Foil Faced	100	Glass Wool	D & D Roof Insulations	FTC10-133 a	2012/12/11	A/A1/1								
*Starlite Foil (AFT Faced)	100	Glass Wool	D & D Roof Insulations	FTC12-130	2012/12/03	A /A1/1								

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**Table 7: REFLECTIVE FOIL LAMINATES used as RADIANT BARRIER/UNDERTILE MEMBRANE**  
**[Generally installed under roof & over rafters in residential applications]**

PRODUCT/ BRAND NAME	TYPE	INSULATION MANUFACTURER / SOLE DISTRIBUTOR	SANS 428 CLASSIFICATION 2024			SANS 53501-1 CLASSIFICATION 2025							
			REPORT NUMBER	REPORT DATE	CLASSIFICATION	REPORT DATE	REPORT NUMBER	CLASSIFICATION	SANS 11820	SANS 1743	SANS 53823	SANS 11925-2	
*Absto DFR251 Foil Scrim Facing	Foil	Absto Ind Supplies	FTC 19-122	2019/08/08	A/A1/1								
*Absto DFR251 White Scrim Facing	Foil	Absto Ind Supplies	FTC 20-219	2021/01/19	A/A1/1								
*Absto DFR201B Foil Scrim Facing	Foil	Absto Ind Supplies	FTC 19-208	2019/10/21	A/A3/3 H only								
*Absto WP250 White Scrim Facing	Foil	Absto Ind Supplies	FTC 21-052	2021/07/27	B/B1/2 H only								
*Alucushion Domestic	MPET	Alucushion (Pty) Ltd	FTC 21-278	2022/03/23	B/B1/2 H only								
*Alulite	LDPE	ATI	FTC 16-083	2016/07/20	B/B1/2 H only								
*Envirotuff 201FR	Foil	Rhino Plastics (Pty) Ltd	FTC 18-100	2018/07/20	B/B3/3 H only								
*Envirotuff 202ECO	Foil	Rhino Plastics (Pty) Ltd	FTC 16-008 R1	2016/04/08	B/B1/2 H only								
*Envirotuff 202FR	Foil	Rhino Plastics (Pty) Ltd	FTC 18-329 (2)	2019/03/18	A/A1/1	2023-07-01	IT 23-02-00002	B-s1, d1	*		*	*	
*IsoFoil Industrial FR Plus	Foil	Brits Nonwoven				2024-07-10	IT 24-07-00036	A2-s1, d0		*	*	*	
*Sisalation 405	Foil	Afripack Coatings	BCT17071900029R2	2017/10/01	B/B1/2 H only	2024-07-16	IT 24-07-00034	C-s1, d1			*	*	
*Spunsulation 3 Radian Barrier	Foil	Spunchem International	FTC 11/032a	2012/12/19	B/B1/2 H only								

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**Table 8: REFLECTIVE FOIL LAMINATES**  
**[Generally installed over purlins and/or side cladding in Industrial Buildings]**

PRODUCT/ BRAND NAME	TYPE	INSULATION MANUFACTURER / SOLE DISTRIBUTOR	SANS 428 CLASSIFICATION 2024			SANS 53501-1 CLASSIFICATION 2025						
			REPORT NUMBER	REPORT DATE	CLASSIFICATION	REPORT DATE	REPORT NUMBER	CLASSIFICATION	SANS 11820	SANS 1743	SANS 53823	SANS 11925-2
*Alububble D10 Code 2906 Single	MPET	Africa Thermal Ins. ATI	FTC18-101	2018/07/05	B/B1/2/H only (SP & USP)							
*Alububble D10 Code 1983 Double	LDPE	Africa Thermal Ins. ATI	FTC16-066	2016/07/20	B/B1/2/H only (SP & USP)							
*Alububble D10 Code 1983 Double	LDPE	Africa Thermal Ins. ATI	FTC17-250	2018/02/05	B/B1/2/V (USP)							
*Alubrite	Foil	Africa Thermal Ins. ATI	FTC22-154	2023/02/17	A/A1/1							
*Alufoil FR-LI Light Industrial	Foil	Alucushion (Pty) Ltd	FTC 21-282	2022/03/25	B/B1/2/H (SP & USP)							
*Alucushion FR D10 Code 1983	MPET	Alucushion (Pty) Ltd	FTC 21-277	2022/03/22	B/B1/2/H (SP & USP)							
*Alucushion D10 Code 2906 FR	MPET	Alucushion (Pty) Ltd	FTC21-153	2021/11/03	B/B1/2/H only (SP & USP)							
*Alufoil FR-HI Heavy Industrial	Foil	Alucushion (Pty) Ltd	FTC21-158	2021/11/02	B/B1/2/H only (SP & USP)							
*Envirotoff 202FR	Foil	Rhino Plastics (Pty) Ltd	FTC18-329 (2)	2019/03/18	A/A1/1	2023-07-01	IT 23-02-00002	B-s1, d1	*		*	*
*Envirotoff 203ECO	Foil	Rhino Plastics (Pty) Ltd	FTC16-046	2016/06/21	B/B1/2/H (SP) only	2023-10-16	IT 23-11-00009	C-s1, d1			*	*
*Sisalation Fireshield NC 501 S/S	Foil	Afripack Coatings	FTC17-283 R1	2018/03/29	A/A1/1							
*Sisalation Fireshield NC 502 D/S	Foil	Afripack Coatings	FTC17-284	2018/03/29	A/A1/1	2024-10-02	IT 24-10-00049	A2-s1, d0		*	*	
*Sisalation FR 405	Foil	Afripack Coatings	FTC22-169	2022/10/10	A/A1/1	2024-07-05	IT 24-07-00032	C-s1, d1			*	*
*Sisalation FR 430	Foil	Afripack Coatings	FTC20-238	2021/02/17	B/B1/2/H&V (SP & USP)	2024-07-02	IT 24-07-00020	B-s1, d1			*	*
*Spunsulation 4 Contactors Choice	Foil	Spunchem International	FTC11/032a	2012/12/19	B/B1/2/H only							
*Spunsulation 5 Light Radiant Barrier	Foil	Spunchem International	FTC11/032a	2012/12/19	B/B1/2/H only							
*T&C's												



**Table 9: ALTERNATIVE COMPOSITE INSULATION SYSTEMS (ACIS): NON-STANDARD PRODUCTS**

**WARNING - NON-STANDARD PRODUCTS - WARNING**

**DO NOT** use two combustible insulation products in conjunction with one another to form an Alternative Composite Insulation System (ACIS), for example; a combustible rigid board with a combustible flexible fibre blanket, to comply with the required thermal resistance in SANS 10400-XA *Energy usage in buildings*, unless it has a valid fire test report to verify that it was tested together and can be used as such. Only use composites products with a valid fire test report, i.e. tested together as a unit, not individually tested. See below.

PRODUCT/ BRAND NAME	TYPE	INSULATION MANUFACTURER / SOLE DISTRIBUTOR	SANS 428 CLASSIFICATION 2024			SANS 53501-1 CLASSIFICATION 2025								
			REPORT NUMBER	REPORT DATE	CLASSIFICATION	REPORT DATE	REPORT NUMBER	CLASSIFICATION	SANS 11820	SANS 1743	SANS 53823	SANS 11925-2		
*35mm Lambdaboard with 100mm Starlite Bulk		D&D Roof Insulations	FTC14/123	2014/12/03	B/B1/2/H only (USP)									
*50mm Isoboard with 135mm Knauf Bulk Insulation		Isofoam SA (Pty) Ltd	FTC 18/256	2018/11/28	B/B1/2/H only (USP)									

**Table 10: SPACER SYSTEMS**  
**Generally installed under roof & on top of purlins**

Insultrak & WF Starlite Insulation Spacer&Insulation	55	Insultrak CC	FTC22/042	2022/06/22	A/A1/1									
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Insulation products are classified according to harmonized classification and test methods in Euroclass A1, A2, B, C, D, E and F. Products classified in a given class are deemed to satisfy all the requirements of any lower (better) class. Products listed in A1 and A2 classes are non-combustible (cement, concrete, minerals, glass wool, fibreglass, rockwool, ceramic, etc.), materials certified from B to F are combustible in ascending order.

Class	Test	Classification Criteria	Additional Classification	Contribution to fire
A1	SANS 11820	$\Delta T \leq 30^\circ \text{C}$ ; and $\Delta m \leq 50\%$ ; and $t_f = 0$ (i.e. no sustained flaming)	-	Non-Combustible No contribution to fire
	SANS 1743	$\text{PCS} \leq 2.0 \text{ MJ/kg}^a$ and $\text{PCS} \leq 2.0 \text{ MJ/kg}^{b,c}$ and $\text{PCS} \leq 1.4 \text{ MJ/m}^2^d$ and $\text{PCS} \leq 2.0 \text{ MJ/kg}^e$		
A2	SANS 1182 or	$\Delta T \leq 50^\circ \text{C}$ ; and $\Delta m \leq 50\%$ ; and $t_f \leq 20 \text{ s}$	Smoke production <sup>f</sup> and Flaming droplets/particles <sup>g</sup>	Limited Combustible No contribution to fire No Flashover
	SANS 1743 and	$\text{PCS} \leq 3.0 \text{ MJ/kg}^a$ and $\text{PCS} \leq 4.0 \text{ MJ/m}^2^b$ and $\text{PCS} \leq 4.0 \text{ MJ/m}^2^d$ and $\text{PCS} \leq 3.0 \text{ MJ/kg}^e$		
	SANS 53823 SBI	$\text{FIGRA} \leq 120 \text{ W/s}$ ; and $\text{LFS} < \text{edge of specimen}$ ; and $\text{THR}_{600\text{s}} \leq 7.5 \text{ MJ}$		
B	SANS 53823 SBI	$\text{FIGRA} \leq 120 \text{ W/s}$ ; and $\text{LFS} < \text{edge of specimen}$ ; and $\text{THR}_{600\text{s}} \leq 7.5 \text{ MJ}$	Smoke production <sup>f</sup> and Flaming droplets/particles	Combustible materials No Flashover Very limited contribution to fire
	SANS 11952-2	$F_s \leq 150\text{mm}$ within 60 s		
C	SANS 53823 SBI	$\text{FIGRA} \leq 250 \text{ W/s}$ ; and $\text{LFS} < \text{edge of specimen}$ ; and $\text{THR}_{600\text{s}} \leq 15 \text{ MJ}$	Smoke production <sup>f</sup> and Flaming droplets/particles <sup>g</sup>	Flashover after 10 minutes Limited contribution to fire
	SANS 11952-2	$F_s \leq 150\text{mm}$ within 60 s		
D	SANS 53823 SBI	$\text{FIGRA} \leq 750 \text{ W/s}$	Smoke production <sup>f</sup> and Flaming droplets/particles <sup>g</sup>	Flashover before 10 min Medium contribution to fire
	SANS 11952-2	$F_s \leq 150\text{mm}$ within 60 s		
E	SANS 11952-2	$F_s \leq 150\text{mm}$ within 20 s	Flaming droplets/particles <sup>g</sup>	Flashover before 2 minutes
F		No performance determined		No Performance Determined

#### ADDITIONAL CLASSIFICATIONS EXPLAINED

All the materials classified A2, B, C, D & E to obtain an additional classification regarding the emission of smoke and the production of flaming droplets and/or particles.

Additional Class			Level definition	
“s” Smoke emission level: - values range from 1 (absent/weak) to 3 (high)	Smoke emission - during combustion	s	1	No smoke. Quantity/speed of emission absent or weak
			2	Limited smoke production and smoke increase. Quantity/speed of emission of average intensity
			3	Quantity/speed of emission of high intensity
“d” flaming Droplets and/or particles - values range from 0 (absent) to 2 (high)	Production of flaming droplets/particles - during combustion	d	0	No dripping
			1	Slow dripping
			2	High dripping

See SANS 53501-1 or SANS 10400-T:2024 Ed 5 Fire protection for full explanation of classification

SANS 10400-A - Regulation A20 Classification and Designation of Occupancies relevant to SANS 10400-T Fire Protection	Reaction to fire classification SANS 53501-1 The classification indicated or better				SANS 10400-A - Regulation A20 Classification and Designation of Occupancies relevant to SANS 10400-T Fire Protection	Reaction to fire classification SANS 53501-1 The classification indicated or better			
	Class of Occupancy	Single storey	Double storey	3 storeys or more		Class of Occupancy	Single storey	Double storey	3 storeys or more
Entertainment and public assembly	A1	A2-s1,d0	A2-s1,d0	A2-s1,d0	Large shop	F1	D-s3,d2	C- s3,d1	A2-s1,d0
Theatrical and indoor sport	A2	D-s3,d2	C- s3,d2	A2-s1,d0	Small shop	F2	D-s3,d2	C- s3,d2	A2-s1,d0
Places of instruction	A3	D-s3,d2	C- s3,d2	B-s3,d2	Wholesalers' store	F3	D-s3,d2	C- s3,d2	A2-s1,d0
Worship	A4	D-s3,d2	C- s3,d2	A2-s1,d0	Offices	G1	E-s3,d2	D-s3,d2	A2-s1,d0
Outdoor sport	A5	E-s3,d2	D-s3,d2	A2-s1,d0	Hotel	H1	A2-s1,d0	A2-s1,d0	A2-s1,d0
High risk commercial service	B1	A2-s1,d0	A2-s1,d0	A2-s1,d0	Dormitory	H2	A2-s1,d0	A2-s1,d0	A2-s1,d0
Moderate risk commercial service	B2	D-s3,d2	C- s3,d2	A2-s1,d0	Domestic residence	H3	E-s3,d2	D-s3,d2	A2-s1,d0
Low risk commercial service	B3	E-s3,d2	D-s3,d2	A2-s1,d0	Dwelling house	H4	E-s3,d2	D-s3,d2	A2-s1,d0
Exhibition hall	C1	D-s3,d2	C- s3,d2	A2-s1,d0	Hospitality	H5	D-s3,d2	C- s3,d2	A2-s1,d0
Museum	C2	D-s3,d2	C- s3,d2	A2-s1,d0	High-risk storage	J1	A2-s1,d0	A2-s1,d0	A2-s1,d0
High -risk industrial	D1	A2-s1,d0	A2-s1,d0	A2-s1,d0	Moderate-risk storage	J2	C- s3,d2	B-s3,d2	A2-s1,d0
Moderate-risk industrial	D2	D-s3,d2	C- s3,d1	A2-s1,d0	Low-risk storage	J3	E-s3,d2	D-s3,d2	A2-s1,d0
Low-risk industrial	D3	E-s3,d2	D-s3,d2	A2-s1,d0	Parking garage	J4	D-s3,d2	C- s3,d2	A2-s1,d0
Plant room	D4	A2-s1,d0	A2-s1,d0	A2-s1,d0	<b>Notification:</b> In SANS 10400-T:2024 Ed 5 Fire Protection, SANS 428 will be replaced with SANS 53501-1 after 31 December 2024. New specifications for 2025 should already be in accordance with SANS 53501-1.				
Place of detention	E1	A2-s1,d0	A2-s1,d0	A2-s1,d0					
Hospital	E2	A2-s1,d0	A2-s1,d0	A2-s1,d0					
Other institutional (residential)	E3	A2-s1,d0	A2-s1,d0	A2-s1,d0					
Health care	E4	A2-s1,d0	A2-s1,d0	A2-s1,d0					

**Notes:**

A1 to F refer to the Fire Class determined in accordance with SANS 53501-1. Building Occupancy Classes A1, B1, D1, D4, E1, E2, E3, E4, H1, H2 and J1 are limited to Classification A2-s1,d0 or better.

All the materials classified A2, B, C, D, E obtain an additional classification regarding the emission of smoke and the production of flaming droplets and/or particles.

“s” Smoke emission level: values range from 1 (absent/weak) to 3 (high)

“d” Flaming droplets and/or particles: values range from 0 (absent) to 2 (high)