



REGISTRATION CERTIFICATE

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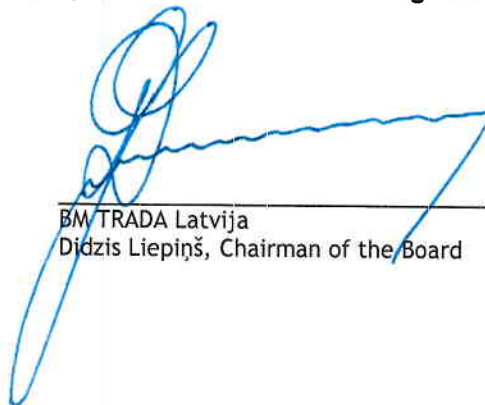
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Single and double leaf fire resistant inward and outward opening metal doorsets meets the requirements of EN 16034:2014 and the BM TRADA A-MARK Scheme of factory production control (FPC) detailed in BM TRADA Scheme Technical Document of Verification of FPC and classification of products with higher reaction to fire or fire resistance requirements according to EN 13501-2.

This certificate was first issued on 01 April 2016 and will remain valid until the date of expiry shown on this certificate provided that the test methods and/or factory production control requirements included in the above document, used to assess the performance of the declared characteristics, do not change, and the product, and the manufacturing conditions in the plant are not modified significantly.



BM TRADA Latvija
Didzis Liepiņš, Chairman of the Board

Certificate number:

TT-PRS-0104

Date of initial certification:

01 April 2016

Date of last issue:

01 April 2017

Certificate expiry date:

31 March 2018



Appendix A

Certificate No: TT-PRS-0104

Issue No: 3 Date: 31.03.2017

Product Description				
Product name	Resistance to fire and smoke leakage class	SMU101-EI30		SMU201-EI30
Product description			Fire resistant and/or smoke control single leaf insulated flush metal door set with and without glass panel, inwards and outwards opening	
		Self opening class (only SMU101)		
Door max mass kg	all*	C5	125,1	-
	all*	-	Depends of allowed door modification	
Frame - max size width x height mm	all*	C5	1180 x 2190	-
Active door leaf - max width x height mm	all*	C5	1112 x 2155	-
Frame (tested frame) - max size width x height mm	E60	-	1231 x 2518 (1180 x 2190)	2274 x 2576 (2180 x 2240)
Frame (tested frame) - max size width x height mm	EW60	-	1180 x 2240 (1180 x 2190)	2180 x 2240
Frame (tested frame) - max size width x height mm	EI ₂₃₀	-	1180 x 2240 (1180 x 2190)	2180 x 2240
Frame (tested frame) - max size width x height mm	S _a	-	1847 x 3448 (1180 x 2200)	3282 x 3468 (2080 x 2190)
Frame - max size width x height mm	S ₂₀₀	-	1180 x 2200	2080 x 2190
Door frame material	all*	C5	Mild or stainless steel	
Door leaf material	EI ₂₃₀ , EW60	C5	Mild or stainless steel	
	S _a , S ₂₀₀	C5	Mild steel	
Finish or cover material	all*	C5	Paint, PVC cover, 1,5 mm thick laminate or timber veneer on surface and paint or PVC on the sides.	
Supporting construction	all*	C5	Rigid or flexible	
Rectangular fire and smoke window - max size	all*	C5	400 x 1700	

width x height mm			
Smoke window - max width x height mm	S _a , S ₂₀₀	C5	500 X 1800
Round fire and smoke window - max size diameter mm	all*	C5	420
Rectangular fire and smoke window glass	all*	C5	Pyrobel 16-EI30, Contraflam EI30, Fireswiss Foam EI30
Smoke window glass	S _a , S ₂₀₀	C5	8 mm hardened glass (Andres Klaasi AS)
Round fire and smoke window glass	all*	C5	Pyrobel 25-EI60, Contraflam EI60, Fireswiss Foam EI60

* - can be used with all allowed resistance to fire and smoke leakage classes what are specified in TT-PRS-0104 Appendix A in table of Essential characteristics of door set SD30, SDE30, SD31, SDE31, SD32, SDE32

Essential characteristics of door set SD30, SDE30, SD31, SDE31, SD32, SDE32			
Classification characteristic		Performance	Reference to classification and test evidence
Resistance to fire	Integrity – E	E15; E20; E30; E45; E60	Test reports: GTC 59-2.2012.4; GTC 59-2.2015.4; TÜV 307-11 TMD; GTC 59-14.2015.4; GTC 59-13.2015.4; GTC 59-14.2014.4; TÜV TMAD-222/07; GTC 59-4.2015.4; GTC 59-5.2011.4; TÜV 302-10TMAD; GTC 59-6.2011.4; TÜV 303-10TMAD; GTC 59-1.2012.4; GTC 59-8.2011.4; TÜV T2MAD-233/08; TÜV 304-10TMAD; TÜV T2MAD-235/08; GTC 59-7.2013.4
	Insulation – I ₁ (180°C max + additional thermocouples)	NPD	
	Insulation – I ₂ (360°C max on frame)	I₂15; I₂20; I₂30	
	Radiant heat flux - W	W20; W30; W60	Classification reports: GTC 59-3.2012.1; TÜV TEK-095/13en; GTC 59-15.2012.1; GTC 59-3.2013.1; TÜV TEV-17/08; GTC 59-1.2012.1; GTC 59-30.2014.1; GTC 59-1.2012.1; GTC 59-33.2015.1; BMT CR-10.2016-1; TÜV TEK-051/11en; BMT CR-10.2016-2; TÜV TEK-093/13en; BMT CR-10.2016-3;
			Extended application reports: GTC 59-3.2012.2; GTC 59-2.2012.2; BMT EAR-10.2016-1;

<p>Smoke leakage</p>	<p>Smoke at ambient temperature – S_a; Smoke at 200°C – S_{200}</p>	<p>S_a; S_{200}</p>	<p>Test reports: GTC 59-8.2015.16; SP 3P00884; GTC 59-9.2015.16; GTC 59-8.2016.16; GTC 59-1.2014.16; GTC 59-9.2016.16; SP 3P06883</p> <p>Classification reports: GTC 59-4.2014.1; SP 3P03653; GTC 59-22.2016.1; GTC 59-7.2016.1; BMT CR-10.2016-4; GTC 59-21.2016.1 BMT CR-10.2016-5;</p> <p>Extended application reports: SP 3P08307-1; BMT EAR-10.2016-3</p>
<p>Self closing</p>	<p>Self closing - C</p>	<p>C5</p>	<p>Test reports: Insp DD-146-15-001; KTU 038 SŠF/11P</p> <p>Classification reports: GTC 59-15.2012.1; BMT CR-10.2016-1</p>

Remarks:

The product description table already takes account of direct and extended field of application and does not always reflect actual tested product description.

Appendix B

Certificate No: TT-PRS-0104
Issue No: 3 Date: 31.03.2017

Product Description			
Product name		SD60, SDE60, SD61, SDE61, SD62, SDE62	
Product description	Class	Fire resistant and/or smoke control single leaf insulated flush metal door set with and without glass panel, inwards and outwards opening	Fire resistant and/or smoke control double leaf insulated flush metal door set with and without glass panel, inwards and outwards opening
Frame - max size width x height mm	E90	-	2980 x 2990
Frame (tested frame) - max size width x height mm	EW60, EI ₂ 60	1531 x 2990 (1180 x 2190)	2980 x 2990
Frame (tested frame) - max size width x height mm	S _a	1847 x 3448 (1180 x 2200)	3282 x 3468 (2080 x 2190)
Frame - max size width x height mm	S ₂₀₀	1180 x 2200	2080 x 2190
Door frame material	all*	Mild or stainless steel	
Door leaf material	E90, EW60, EI ₂ 60	Mild or stainless steel	
	S _a , S ₂₀₀	Mild steel	
Finish or cover material	E90	Paint or PVC cover or 1,5mm laminate or timber veneer on surface and paint on the sides	
	EW60, EI ₂ 60, S _a , S ₂₀₀	Paint or PVC cover or 1,5mm laminate or timber veneer on surface and paint or PVC on the sides	
Supporting construction	E90	Rigid	
	EW60, EI ₂ 60, S _a , S ₂₀₀	Rigid or flexible	
Rectangular fire and smoke window - max size width x height mm	EW60, EI ₂ 60, S _a , S ₂₀₀	500 x 1800	
	EW60, EI ₂ 60, S _a , S ₂₀₀	435 x 740	
Round fire and smoke window - max size diameter mm	EW60, EI ₂ 60, S _a , S ₂₀₀	420	
Rectangular smoke window - max width x height mm	S _a , S ₂₀₀	500 X 1800	
Fire and smoke window glass	EW60, EI ₂ 60, S _a , S ₂₀₀	Pyrobel 25-EI60, Contraflam EI60, Fireswiss Foam EI60	
Smoke window glass	S _a , S ₂₀₀	8mm hardened glass (Andrese Klaasi AS)	

* - can be used with all allowed classes what are specified in Certificate TT-PRS-0104 Appendix B in table of Essential characteristics of door set SD60, SDE60, SD61, SDE61, SD62, SDE62

Essential characteristics of door set SD60, SDE60, SD61, SDE61, SD62, SDE62		
Classification characteristic	Performance	Reference to classification and test evidence
Resistance to fire	Integrity – E	E15; E20; E30; E45; E60; E90
	Insulation – I ₁ (180°C max + additional thermocouples)	NPD
	Insulation – I ₂ (360°C max on frame)	I₂15; I₂20; I₂30; I₂45; I₂60
	Radiant heat flux - W	W20; W30; W60
		Test reports: GTC 59-6.2015.4; GTC 59-14.2014.4; GTC 59-5.2015.4; GTC 59-13.2014.4; GTC 59-8.2011.4; GTC 59-12.2014.4; TÜV 304-10TMAD; GTC 59-2.2013.4; GTC 59-7.2013.4; TÜV 302-10TMAD; GTC 59-4.2015.4; TÜV 303-10TMAD Classification reports: GTC 59-31.2015.1; GTC 59-28.2014.1; GTC 59-32.2015.1; GTC 59-1.2013.1; GTC 59-1.2012.1; TÜV TEK-051/11en; GTC 59-3.2013.1; TÜV TEK-093/13en; GTC 59-33.2015.1; TÜV TEK-095/13en; GTC 59-30.2014.1; BMT CR-10.2016-6; GTC 59-29.2014.1; BMT CR-10.2016-7 Extended application reports: GTC 59-3.2012.2; BMT EAR-10.2016-2 GTC 59-2.2012.2;
Smoke leakage	Smoke at ambient temperature – S _a ; Smoke at 200°C – S ₂₀₀	S_a; S₂₀₀
		Test reports: GTC 59-8.2015.16; SP 3P00884; GTC 59-9.2015.16; GTC 59-8.2016.16; GTC 59-1.2014.16; GTC 59-9.2016.16 SP 3P06883; Classification reports: GTC 59-4.2014.1; GTC 59-22.2016.1; SP 3P03653; BMT CR-10.2016-4; GTC 59-7.2016.1; BMT CR-10.2016-5 Extended application reports: SP 3P08307-1; BMT EAR-10.2016-3

Remarks:

The product description table already takes account of direct and extended field of application and does not always reflect actual tested product description.

Appendix C

Certificate No: TT-PRS-0104
Issue No: 1 Date: 31.03.2017

Product Description			
Product name		SD90, SD91, SDE90, SDE91	
Product description	Class	Fire resistant single leaf insulated flush metal door set, inwards and outwards opening	Fire resistant double leaf insulated flush metal door set, inwards and outwards opening
Frame (tested frame) - max size width x height mm	EW60, EI ₁ 30, EI ₂ 90	1180x2485 (1030x2190)	2350x2519 (2080x2190)
Frame (tested frame) - max size width x height mm	E240	1180x2485 (1030x2190)	-
Door frame material	all*	Mild or stainless steel	
Door leaf material	all*	Mild or stainless steel	
Door frame, leaf and sill finish or cover material	all*	Paint or PVC cover or 1,5 mm laminate or timber veneer on surface	
Supporting construction	all*	Rigid	

* - can be used with all allowed classes what are specified in Certificate TT-PRS-0104 Appendix C in table of Essential characteristics of door set SD90, SD91, SDE90, SDE91

Essential characteristics of door set SD90, SD91, SDE90, SDE91		
Classification characteristic	Performance	Reference to classification and test evidence
Resistance to fire	Integrity – E	E15; E20; E30; E45; E60; E90
	Insulation – I ₁ (180°C max + additional thermocouples)	I₁15; I₂30
	Insulation – I ₂ (360°C max on frame)	I₂15; I₂20; I₂30; I₂45; I₂60; I₂90
	Radiant heat flux - W	W20; W30; W60
Smoke leakage	Smoke at ambient temperature – S _a ; Smoke at 200°C – S ₂₀₀	S_a, S₂₀₀

Remarks:

The product description table already takes account of direct and extended field of application and does not always reflect actual tested product description.



Appendix D

Certificate No: TT-PRS-0104
Issue No: 1 Date: 31.03.2017

Product Description			
Product name		SD120, SD121, SDE120, SDE121	
Product description	Class	Fire resistant single leaf insulated flush metal door set, inwards and outwards opening	Fire resistant double leaf insulated flush metal door set, inwards and outwards opening
Frame (tested frame) - max size width x height mm	EW60, EI₁30, EI₂120	1180x2485 (1030x2190)	2350x2519 (2080x2190)
Frame (tested frame) - max size width x height mm	E240	1180x2485 (1030x2190)	-
Door frame material	all*	Mild or stainless steel	
Door leaf material	all*	Mild or stainless steel	
Door frame, leaf and sill finish or cover material	all*	Paint or PVC cover or 1,5 mm laminate or timber veneer on surface	
Supporting construction	all*	Rigid	

* - can be used with all allowed classes what are specified in Certificate TT-PRS-0104 Appendix D in table of Essential characteristics of door set SD120, SD121, SDE120, SDE121

Essential characteristics of door set SD120, SD121, SDE120, SDE121		
Classification characteristic	Performance	Reference to classification and test evidence
Resistance to fire	Integrity – E	E15; E20; E30; E45; E60; E90; E120; E180; E240
	Insulation – I ₁ (180°C max + additional thermocouples)	I₁15; I₂30
	Insulation – I ₂ (360°C max on frame)	I₂15; I₂20; I₂30; I₂45; I₂60; I₂90; I₂120
	Radiant heat flux - W	W20; W30; W60
Smoke leakage	Smoke at ambient temperature – S _a ; Smoke at 200°C – S ₂₀₀	S_a, S₂₀₀

Remarks:

The product description table already takes account of direct and extended field of application and does not always reflect actual tested product description.