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TECHNICAL ASSESSMENT REPORT

PRODUCT ASSESSMENT (Global – Technical Assessment) REPORT n° EUI-24-000092- Revision 2

According to standard BS EN 15269-2: 2012

This product assessment cancels and replaces product assessment EUI-24-000092-Revision 1

Regarding	A range of single and double leaves latched/unlatched metallic doorsets with leaf thickness of 44 mm. Reference: "FIREDOR (Uninsulated) 44 mm"
Sponsor	STRONGDOOR Oakwood Way LA5 9FD Lancaster UNITED KINGDOM

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MODIFICATIONS FOLLOW-UP

Revision level	Date	Change(s)	Author
0		Initial issue of the technical application report	Efectis UK/Ireland
1		Additions to section 6.2.3, 6.2.6, 6.2.9 & 6.2.10 Test Reports Added: EUI-25-B-000011, EUI-25-B-000179 & EUI-25-B-000216 Addition to section 7 6.2.17.1 single leaf permissible dimension updated	Efectis UK/Ireland
2		Additions to Section 6.2.11	Efectis UK/Ireland

1. INTRODUCTION

This technical assessment report concerns test results obtained in accordance with Test Method BS EN 1634-1:2014 + A1:2018 "Fire resistance and smoke control tests for door and shutter assemblies, openable windows and elements of building hardware – Part 2: Fire resistance test for door and shutter assemblies and openable windows. It represents an evaluation of the fire resistance performance based on the reference fire resistance test performed.

The technical assessment process is carried out in conformity with the following extended application standards BS EN 15269-2: 2012 "Extended application of test results from fire resistance and/or smoke control for door, shutter and openable window assemblies, including their elements of building hardware – Part 2: Fire resistance of hinged and pivoted steel doorsets", BS EN 15269-2: 2024 "Extended application of test results from fire resistance and/or smoke control for door, shutter and openable window assemblies, including their elements of building hardware – Part 2: Fire resistance of hinged and pivoted steel doorsets", and BS EN 15269-20:2020 "Extended application of test results for fire resistance and/or smoke control for door, shutter and openable window assemblies, including their elements of building hardware – smoke control for doors, shutters, operable fabric curtains and openable windows and the historical experiments of the fire testing laboratory.

2. TESTING LABORATORY

Efectis UK/Ireland
Shore Road - Newtownabbey
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3. DETAILS OF THE PRODUCT

3.1. PRODUCT TECHNICAL SPECIFICATIONS

The elements are single or double leaves metallic doorset with the leaf thickness 44 mm. All the leaves are hung on to a 1,5 mm thick steel door frame with a cross section of 43 x 50 x 25 x 54 x 68 mm. Leaves were filled with Honeycomb Core with PU adhesive (100 g/m²) as described in the test reports listed below

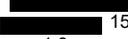
Test Report Nr.	Material	Active Leaf	Passive Leaf	Glazing/Louvre	Side Panel	Top Panel
EUI-21-000377AREV5	Leaf & Frame: Magnelis steel 1,5 mm	2347 x 910 x 44 mm	n/a	560 x 560 mm (520 x 520 mm visible) FIRELITE 9 mm	n/a	n/a
	Leaf & Frame: Magnelis steel 1,5 mm	2347 x 910 x 44 mm	n/a	n/a	n/a	n/a
EUI-22-B-000199REV7	Frame: IZ steel 1,5 mm Leaf: Zintec steel 1,2 mm	2040 x 858 x 44 mm	n/a	Double glazing 481 x 1497 x 25mm (FIRELITE)	1998 x 1008 x 44mm IZ Steel	608 x 1958 x 44mm IZ Steel
EUI-22-B-000334REV7	Frame: IZ steel 1,5 mm Leaf: Zintec steel 1,2 mm	2040 X 841 X 44 mm	2040 X 841 X 44 mm	125 x 1497 mm on each leaf (101 x 1473 mm visible) FIRELITE 9 mm	710 x 2000 x 9mm (FIRELITE)	2490 x 604 x 9mm (FIRELITE)
EUI-22-B-000337REV7	Frame: IZ steel 1,5 mm Leaf: Zintec steel 1,2 mm	2040 X 851 X 44 mm	2040 X 851 X 44 mm	2 pcs. 583 x 583 x FIRELITE 9 mm	1998 x 708 x 22mm IZ Steel	610 x 2510 x 22mm IZ Steel
EUI-22-B-000197-REV3	Leaf & Frame: Zintec steel 1,2 mm	2040 x 858 x 44 mm	n/a	481 x 1497 mm (457 x 1473 mm visible) FIRELITE 9 mm	1998 x 1008 x 9 mm FIRELITE	608 x 1958 x 9 mm FIRELITE

EUI-22-B-000756REV5	Frame: IZ steel 1,5 mm Leaf: Zintec steel 1,2 mm	2300 x 1008 x 44 mm	n/a	n/a	n/a	n/a
EUI-22-B-000756REV5	Frame: IZ steel 1,5 mm Leaf: Zintec steel 1,2 mm	2300 x 1008 x 44 mm	n/a	n/a	n/a	590 x 1008 x 1.2mm (h x w), reference RT44 – IZ Steel (STRONGDOR)
EUI-22-B-000757REV5	Frame: IZ steel 1,5 mm Leaf: Iron zinc steel 1,2 mm	2300 x 900 x 44 mm	2300 x 900 x 44 mm	n/a	n/a	n/a
EUI-21-B-000554REV4	Frame: Magnelis steel 1,5 mm Leaf: Zintec steel 1,2 mm	2347 x 952.5 mm	2347 x 952.5 mm	n/a	n/a	n/a
EUI-22-B-000198REV7	Frame: IZ steel 1,5 mm Leaf: Zintec steel 1,2 mm	2040 x 858 x 44 mm	n/a	Pas 24 (Strongdor) - 508 x 1524 mm [REDACTED] Seal	n/a	n/a
	Frame: IZ steel 1,5 mm Leaf: Zintec steel 1,2 mm	2040 x 858 x 44 mm	n/a	FBLs (Anmostate) - 610 x 610 mm	n/a	n/a
EUI-22-B-000462B-REV5	Frame: IZ steel 1,5 mm Leaf: Zintec steel 1,2 mm	2050 x 858 x 44 mm	n/a	n/a	n/a	n/a
EUI-23-B-000261-Revision 1	Frame: IZ steel 1,5 mm Leaf: Zintec steel 1,2 mm	2050 x 908 X 44 mm	N/A	N/A	N/A	N/A
EUI-23-B-000261-Revision1	Frame: IZ steel 1,5 mm Leaf: Zintec steel 1,2 mm	2050 x 908 X 44 mm	N/A	430 X 430 X 25mm Firelite, SDVP-V2 vision frame	N/A	N/A
EUI-23-B-000511	Frame: IZ steel 1,5 mm Leaf: Zintec steel 1,2 mm	2298 x 900 x 44mm	2298 x 900 x 44mm	98 x 735 x 9mm & 98 x 532 x 9mm Firelite, SDVP-V2 vision frame	N/A	N/A
EUI-23-B-000512-Revision 2	Frame: IZ steel 1,5 mm Leaf: Zintec steel 1,2 mm	2298 x 1008 x 44mm	N/A	N/A	N/A	N/A
EUI-23-B-000512-Revision 2	Frame: IZ steel 1,5 mm Leaf: Zintec steel 1,2 mm	2298 x 1008 x 44mm	N/A	N/A	N/A	N/A
EUI-24-B-000199	Frame: IZ steel 1,5 mm Leaf: Zintec steel 1,2 mm	2340 x 1000 x 44mm	2340 x 1000 x 44mm	227 X 735 X 24mm & 227 x 532 x 24mm Firelite 24mm SDVP-V2 Vision Frame	N/A	N/A
EUI-34-B-000298-Revision 1	Frame: IZ steel 1,5 mm Leaf: Zintec steel 1,2 mm	2350 x 1200 x 44 mm (h x w x th)	N/A	481 x 481 x 24mm Firelite 24mm	N/A	N/A
EFR-24-S-003497-1	Frame: 1.5mm Steel Leaf: IZ Steel 1.2mm	2650 x 1150 x 44mm	2650 x 1150 x 44mm	Cut out: 790 x 2290mm Glass: 763 x 2263 x 9mm FIRELITE 9mm	n/a	n/a
EFR-24-S-003497-2	Frame: 1.5mm Steel Leaf: IZ Steel 1.2mm	2650 x 1150 x 44mm	2650 x 1150 x 44mm	Cut out: 790 x 2290mm Glass: 763 x 2263 x 9mm FIRELITE 9mm	n/a	n/a

EFR-23-S-003497-3	Frame: 1.5mm Steel Leaf: IZ Steel 1.2mm	2650 x 1150 x 44mm	N/A	Cut Out: 790 x 2290mm Glass: 763 x 2263 x 9mm FIRELITE 9mm	n/a	n/a
EFR-23-S-003497-4	Frame: 1.5mm Steel Leaf: IZ Steel 1.2mm	2650 x 1150 x 44mm	N/A	Cut Out: 790 x 2290mm Glass: 763 x 2263 x 9mm FIRELITE 9mm	n/a	n/a
EUI-25-B-000011	Frame: 1.5mm Steel Leaf: IZ Steel 1.2mm	2350 x 1008 x 44 mm	N/A	Size 1: 227 x 735 x 10mm Size 2: 278 x 278 x 10mm Pyran S (SCHOTT)	N/A	N/A
EUI-25-B-000179	Frame: 1.5mm Steel Leaf: IZ Steel 1.2mm	2300 x 993 x 44 mm	N/A	Size 1: 227 x 735 x 6mm Size 2: 278 x 278 x 6mm Pyran S (SCHOTT)	N/A	N/A
EUI-25-B-000216	Frame: 1.5mm Steel Leaf: IZ Steel 1.2mm	2350 x 1008 x 44 mm	N/A	N/A	N/A	N/A

Test Report Nr.	Hinges	Locks	Door Closer	Smoke Seal	Intumescent Seal
EUI-21-000377AREV5	4 x M433-CE-CD (MONARCH)	Sash Lock 5520 – BRITON with stainless steel handle @ both sides	9206 (RUTLAND)-non exposed side	NEZ160 (PROSPECTOR) - 1,1 mm	n/a
	4 x M433-CE-CD (MONARCH)	two point panic bolt reference 376 (BRITON) @ exposed side	9206 (RUTLAND) - exposed side	NEZ160 (PROSPECTOR) - 1,1 mm	n/a
EUI-22-B-000199REV7	3 x50577 (RUTLAND)	MSR-2A PE6 (MICO) @ exposed side	TS93 (DORMAKABA)	n/a	██████████ 15 x 1,8 mm on the frame and leaf
EUI-22-B-000334REV7	3 x50577 (RUTLAND)	Active: MRS-1 PE2 panic Passive: MRS-2 PE2 Panic (2 points) @ exposed side	TS93 EMF (DORMAKABA)	n/a	██████████ 15 x 1,8 mm on the frame and leaf
EUI-22-B-000337REV7	3 x50577 (RUTLAND)	Hooply 95 (Latham Ltd) active leaf & MSTB – Sprung tower bolt (MICO) passive leaf & ZG4S030 (ZOO) at both sides	TS93 EMF (DORMAKABA)	n/a	██████████ 15 x 1,8 mm on the frame and leaf
EUI-22-B-000197-REV3	3 x50577 (RUTLAND)	MD4 (MICO) & M0420 (MICO) handle @ unexposed side & ZG4S0303 (MICO) handle @ exposed side	TS93 (DORMAKABA)	n/a	██████████ 15 x 1,8 mm on the frame and leaf
EUI-22-B-000756REV5	3 x M433-CE-CD (MONARCH)	TV2003-50 (Unlatched)	TS83 FRX (DORMAKABA)	n/a	██████████ 15 x 1,8 mm on the frame and leaf
	3 x M433-CE-CD (MONARCH)	ES8100 lock (ASSA ABLOY) & A12110S access hardware @ both sides & SIR12 Electric Strike CDVI	TS83 FRX (DORMAKABA)	n/a	██████████ 15 x 1,8 mm on the frame and leaf
EUI-22-B-000757REV5	4 x M433-CE-CD (MONARCH)	TV2003-50 (Unlatched)	TS93 B – guide rail door closer (DORMAKABA) & The door coordinator, reference G-SRIV (DORMAKABA)	n/a	██████████ 15 x 1,8 mm on the frame and leaf
EUI-21-B-000554REV4	4 x M433-CE-CD (MONARCH)	379.N (BRITON) & Z003R flush bolt @passive leaf @exposed side & 1413/KE/SE/RO (BRITON) @ unexposed side	9206 (RUTLAND) - exposed side	n/a	██████████ 15 x 1,8 mm on the frame and leaf

EUI-22-B-000198REV7	3 x50577 (RUTLAND)	AD2 State (MICO) Push bar @ exposed side & 004-MD036 (MICO) handle @ unexposed side	TS93 (DORMAKABA)	n/a	██████████ 15 x 1.8 mm on the frame and leaf
	3 x50577 (RUTLAND)	MICO AD2 State & handle ZG4S030 (ZOO) @ both sides	TS93 (DORMAKABA)	n/a	██████████ 15 x
EUI-22-B-000462B-REV5	4 x M433-CE-CD (MONARCH)	Assa Abloy EL560 & top&bottom 388 (DORMAKARBA) deadlock & EM 7500-D AM (DORMAKARBA) Concealed Maglock @ both sides	n/a	388S & 488S (ZERO)	██████████ 15 x 1.8 mm on the frame and leaf
EUI-23-B-000261-Revision 1	3 x M433-CE-CD (MONARCH)	Briton 5760 Escape Sashlock, Dorma EM1800AH Maglock disengaged	Assa Abloy DC200 on fire side, Assa Abloy DC300 on opposite side	n/a	██████████ 15 x 1.8 mm on the leaf
EUI-23-B-000261-Revision 1	3 x M433-CE-CD (MONARCH)	Briton 5430 Bathroom lock, Dorma EM1800AH Maglock disengaged Exidor tower bolt	Assa Abloy DC300 on fire side, Assa Abloy DC200 on opposite side	n/a	██████████ 15 x 1.8 mm on the leaf
EUI-23-B-000511	6 x M433-CE-CD (MONARCH)	TV2003-50 (Unlatched) Briton 5470 roller bot disengaged	Assa Abloy DC200 opposite to fire side	1771s Tee Fin Seal	██████████ 15 x 1.8 mm on the leaf
EUI-23-B-000512-Revision 2	3 x M433-CE-CD (MONARCH)	Assa Abloy EL520 disengaged	Record DFA 127 Automatic Door Operator	488S (ZERO)	██████████ 15 x 1.8 mm on the leaf
EUI-23-B-000512-Revision 2	3 x M433-CE-CD (MONARCH)	Briton 378 Rim Panic Bar	Assa Abloy DC860 concealed door closer	488S (ZERO)	██████████ 15 x 1.8 mm on the leaf
EUI-24-B-000199	4 x M433-CE-CD (MONARCH)	Active Leaf : Single point panic bar 296 Exidor Passive Leaf: Two point panic bar 294 Exidor	Assa Abloy DC300 Closer	1777S (ZERO INTERNATIONAL)	██████████ 15 x 1.8 mm on the leaf
EUI-24-B-000298-Revision 1	4 x SHIN1001100 (DP GARG)	Lock: EXIDOR 296SD (EXIDOR) Outside Access Device: EXIDOR 325 (EXIDOR)	Z109 (ASSAABLOY)	1777S (ZERO INTERNATIONAL)	██████████ 15 x 1.8 mm on the leaf
EFR-24-S-003497-1	5 x M433-CE-CD (MONARCH)	Active Leaf: One-point mortised lock 5420 (BRITON) CSL 1190SSS Handle Passive Leaf: Two manual Flush Bolts – Z003R (ZERO)	TS93 (DORMAKABA)	1777S (ZERO INTERNATIONAL)	██████████ 15 x 1.8 mm
EFR-24-S-003497-2	5 x M433-CE-CD (MONARCH)	Active Leaf: One-point mortised lock 5420 (BRITON) CSL 1190SSS Handle Passive Leaf: Two manual Flush Bolts – Z003R (ZERO)	TS93 (DORMAKABA)	1777S (ZERO INTERNATIONAL)	██████████ 15 x 1.8 mm

EFR-23-S-003497-3	5 x M433-CE-CD (MONARCH)	One-point mortised lock 5420 (BRITON) CSL 1190SSS Handle	TS93 (DORMAKABA)	1777S (ZERO INTERNATIONAL)	 15 x 1.8 mm
EFR-23-S-003497-4	5 x M433-CE-CD (MONARCH)	One-point mortised lock 5420 (BRITON) CSL 1190SSS Handle	TS93 (DORMAKABA)	1777S (ZERO INTERNATIONAL)	 15 x 1.8 mm
EUI-25-B-000011	4 x M433-CE-CD (MONARCH)	Sashlock 5420-60-R-SS (BRITON) Maglock SL500 (ICS) Handle A12110S (ACCESS HARDWARE)	TS83 FRX (DORMAKABA)	1777S (ZERO INTERNATIONAL)	 15 x 1.8 mm
EUI-25-B-000179	4 x M433-CE-CD (MONARCH)	Firebolt A2.0 (CHEMOLLI)	ED 100 (ASA ABLOY)	N/A	 15 x 1.8 mm
EUI-25-B-000216	4 x M433-CE-CD (MONARCH)	Sashlock LE75 (SALTO) Lever Handle XS4 Original (SALTO)	TS83 FRX (DORMAKABA)	1777S (ZERO INTERNATIONAL)	 15 x 1.8 mm

3.2. PRODUCT FAMILY

FIREBOR (uninsulated) 44 mm latched and unlatched.

3.3. INTENDED USE

Internal and external pedestrian double and single door sets.

3.4. END USE APPLICATION

Internal and external pedestrian double and single door sets.

4. TEST REPORTS AND TEST RESULTS IN SUPPORT OF THIS EXTENDED APPLICATION REPORT

4.1. TEST REPORTS

Name of Laboratory	Name of sponsor	Test report ref. no.	Date
EFFECTIS UK & IRELAND	STRONGDOR	EUI-21-B-000377A-REV5	15 th September 2021
EFFECTIS UK & IRELAND	STRONGDOR	EUI-21-B-000554-REV4	6 th December 2021
EFFECTIS UK & IRELAND	STRONGDOR	EUI-22-B-000462B-REV5	21 st September 2022
EFFECTIS UK & IRELAND	STRONGDOR	EUI-22-B-000198 –REVISION 7	28 th April 2022
EFFECTIS UK & IRELAND	STRONGDOR	EUI-22-B-000199-REVISION 7	29 th April 2022
EFFECTIS UK & IRELAND	STRONGDOR	EUI-22-B-000337-REV7	1 st July 2022
EFFECTIS UK & IRELAND	STRONGDOR	EUI-22-B-000334-REV7	29 th June 2022
EFFECTIS UK & IRELAND	STRONGDOR	EUI-22-B-000197-REV3	17 th April 2022
EFFECTIS UK & IRELAND	STRONGDOR	EUI-22-B-000756-REV5	3 rd May 2023
EFFECTIS UK & IRELAND	STRONGDOR	EUI-22-B-000757-REV5	3 rd May 2023
EFFECTIS UK & IRELAND	STRONGDOR	EUI-23-B-000261-Revision 2	30 th June 2023
EFFECTIS UK & IRELAND	STRONGDOR	EUI-23-B-000511	29 th September 2023
EFFECTIS UK & IRELAND	STRONGDOR	EUI-23-B-000512-Revision 2	28 th September 2023
EFFECTIS UK & IRELAND	STRONGDOR	EUI-24-B-000199	18 th April 2024
EFFECTIS UK & IRELAND	STRONGDOR	EUI-24-B-000298-Revision 1	3 rd July 2024
EFFECTIS FRANCE	STRONGDOR	EFR-24-S-003497-1	5 th June 2024
EFFECTIS FRANCE	STRONGDOR	EFR-24-S-003497-2	5 th June 2024
EFFECTIS FRANCE	STRONGDOR	EFR-24-S-003497-3	6 th June 2024
EFFECTIS FRANCE	STRONGDOR	EFR-24-S-003497-4	6 th June 2024
EFFECTIS UK & IRELAND	STRONGDOR	EUI-25-B-000011	14 th January 2025
EFFECTIS UK & IRELAND	STRONGDOR	EUI-25-B-0000179	2 nd April 2025

EFFECTIS UK & IRELAND	STRONGDOR	EUI-25-B-000216	7 th May 2025
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5. SUMMARY

The sponsor requests the following changes or substitutions among the tested products:

- Fixing the frame to the supporting construction:
 - o multi-use wood screws Ø6 x 90 mm & with fisher nylon plugs Ø8 x 50 mm or using concrete screws 7.5 x 82mm
 - o Doorsets up to 2403mm in height are fixed to the supporting construction using 6 sets of fixings (3 sets on each jamb)
 - o Doorsets up to 2760mm in height are fixed to the supporting construction using 8 sets of fixings (4 sets on each jamb)
 - o Double doors require 2 additional sets of fixings in the header
 - o Between the frame and supporting construction a 1.5mm U shape expander (full length) is used to take up any tolerance between the frame and the supporting construction.
- Hinges:
 - o Door leaves up to 2300 mm in height may have a minimum of three ball bearing hinges with dimensions 102x76x3 mm
 - o Higher door leaves than 2300 mm may have a minimum of four hinges.
- Locks on active leaf:
 - o Briton mortice locks (sashlock, latchlock, deadlock, bathroom, latch, nightlatch, escape) reference: 5520, 5530, 5540, 5550, 5555, 5560, 5410, 5420, 5430, 5440, 5470, 5710, 5720, 5730, 5740, 5750, 5760.
 - o Dormakaba mortice locks series reference 300/200.
 - o Hooply mortice sashlock reference 95.
 - o Assa Abloy electrified mortice lock reference EL560, EL561, EL520, E532, the lock can be operated with handle and/or with Assa Bloy panic bar reference PBE011.
 - o Dormakaba electrified mortice lock reference SVP600
 - o Mico Modula mortice locks series reference Modula AD, Modula MD and Modula PE.
 - o Briton push bar panic exit device with mortice nightlatch reference 379.N.
 - o Briton single point rim panic bar reference 378.
 - o Briton two points rim panic bar reference 376 (fire side only).
 - o Mico single point rim panic exit device reference MSR-1A.
 - o Mico three points rim panic exit device reference MSR-3A.
 - o Mico two points rim panic exit device reference MSR-2A (fire side only).
 - o Salto LE75 Sashlock
- Hardware & locks on passive leaf:
 - o Briton two points rim panic bar reference 376
 - o Mico two points rim panic exit device reference MSR-2A
 - o Zero standard manual flush bolt reference Z003R
 - o Mico sprung tower bolt reference MSTB
 - o Exidor tower bolt reference HS923/10
 - o Dorma automatic flush bolt reference HZ 43-F22
- Optional electrified hardware that can be added:
 - o Assa Abloy V-Lock reference ES8100
 - o CDVI electric strike fail secure reference SIR12
 - o GEM electric strike fail secure reference GK311, GK370
 - o DormaKaba concealed maglock reference EM 7500-D

- DormaKaba surface mounted maglock reference EM 1800 AH
- Zero concealed cable loop reference ZCDL/RAD

- Handles & Outside Access Devices:
 - Eurospec stainless steel handle and rose reference CSL 1190SSS
 - Zoo stainless steel handle with escutcheon pack reference ZG4S030
 - Carlisle Brass stainless steel pull handle with rose pack reference 300D
 - Access Hardware stainless steel handle with rose pack reference A12110S
 - Mico stainless steel handle reference 004-MD036
 - Briton code lock OAD/Handle reference 9260
 - Assa Abloy stainless steel handle set reference Inoxi 242
 - Briton OAD reference 1413/KE/SE/RO
 - Mico OAD reference MLK, ELK Lite
 - Salto XS4 Original Lever Handle

- Cylinders:
 - UAP europrofile cylinder reference MIN30/30NAS
 - Eurospec europrofile cylinder reference CYA71270
 - Mul-T-Lock europrofile cylinder reference 586D
 - Assa Abloy europrofile cylinder reference PROTEC2
 - Vier europrofile cylinder reference V5
 - Carlisle Brass disabled turn & release reference CST1025SSS

- Cylinder guards & escutcheons:
 - Carlisle Brass escutcheon set reference CES1005SSS
 - UAP escutcheon set reference HSESS-NANOCOAST
 - Mico cylinder guards reference PSCH, ASCH
 - Mul-T-Lock cylinder guards reference Cylinder Security Protector

- Door closer & automatic door operator:
 - Rutland slimline door closer reference TS9206
 - Dormakaba door closers reference TS93, TS93EMF, TS93G-SR/V, TS83FRX
 - Assa Abloy door closers reference DC200, DC300
 - Assa Abloy concealed door closer reference DC860
 - Record automatic door operator with sensors reference DFA127
 - Dormakaba ED100/250 Door operator

- Optional Hardware:
 - Stainless steel kick plate, 1.2mm thick and maximum height 800mm
 - Stainless steel push plate, 300x75x1.5mm
 - Steel rain drip and rain deflector
 - Signage reference:
 - Carlisle Brass SEX1016SSS, stainless steel riveted to the door
 - Ready fix FX05108S, laminated paper sticker
 - Weldit DSS-76-FDKS, stainless steel fixed with double tape
 - UAP door viewer reference SWALFSC-FR
 - UAP letterplate reference Soterian TS008
 - Planet TW Drop Seal (ASSA ABLOY)
 - LZR Flatscreen 3D SW (BEA)

- Glazing in the leaf:
 - A glazing reference FIRELITE 9MM (FIRELITE) with cut out dimensions in the leaf up to 508 x 1524 mm
 - A glazing reference DOUBLE GLAZING FIRELITE 24MM (FIRELITE) with dimensions in the leaf up to 508 x 1524 mm

- A glazing reference FIRELITE 9MM (FIRELITE) with cut out dimensions in the leaf up to 610 x 610 mm, two vision panels from this type can be installed in the same leaf
- A glazing reference SCHOTT Pyran S 10mm (SCHOTT) with maximum dimensions in the leaf up to 583 x 1497mm
- A glazing reference SCHOTT Pyran S 6mm (SCHOTT) with maximum dimensions in the leaf up to 583 x 1497mm
- Louvre in the leaf:
 - A PAS24 (STRONGDOOR) louvre with size maximum 508 x 1524 mm (w x h) may be installed in the leaf
- Intumescent seals:
 - A graphite intumescent seal of 15 x 1.8 mm may be installed on the perimeter of the leaf or on the Jambs and Header
 - Smoke seals:
 - Silicone seal type 388s, 488s, 188s and 1771s may be installed.
- Smoke performance Doors;
 - Use FIRELITE 9mm (FIRELITE) glass or FIRELITE 24mm (FIRELITE) glass
 - Use 96mm Threshold (STORMGUARD) with AM3 and AM5 threshold (STORMGUARD)

6. CONCLUSION

6.1. PRINCIPLES APPLIED FOR THE PRODUCT ASSESSMENT

This technical assessment procedure is based on.

Method 1: Established influence(s) of product and end use parameters in accordance with:

- BS EN 15269-2: 2012 "Extended application of test results from fire resistance and/or smoke control for door, shutter and openable window assemblies, including their elements of building hardware – Part 2: Fire resistance of hinged and pivoted steel doorsets".
- BS EN 15269-2: 2024 "Extended application of test results from fire resistance and/or smoke control for door, shutter and openable window assemblies, including their elements of building hardware – Part 2: Fire resistance of hinged and pivoted steel doorsets".
- BS EN 15269-20:2020 "Extended application of test results for fire resistance and/or smoke control for door, shutter and openable window assemblies, including their elements of building hardware – smoke control for doors, shutters, operable fabric curtains and openable windows and the historical experiments of the fire testing laboratory
- Product technical specification referenced in section 3.1.
- Additional fire test results of a similar construction.

6.2. TECHNICAL ASSESSMENT RESULTS

6.2.1. Fixing (See Plate No: 13):

- Both multi-use wood screws Ø6 x 90 mm & with fisher nylon plugs Ø8 x 50 mm and concrete screws 7.5 x 82mm were tested, therefore they are interchangeable within the scope of the product family specified in this report.
- Doorsets up to 2403mm in height are fixed to the supporting construction using 6 sets of fixings (3 sets on each jamb) is applicable as it is allowed for +15% due to the achieved test result for Category B.
- Doorsets up to 2760mm in height are fixed to the supporting construction using 8 sets of fixings (4 sets on each jamb) is applicable as it is allowed for +15% due to the achieved test result for Category B.
- Double doors require 2 additional sets of fixings in the header. Increasing the number of fixings is allowed according to EN 1634-1, section 13.2.4.
- Between the frame and supporting construction a 1.5mm U shape expander (full length) can be used to take up any tolerance between the frame and the supporting construction.

6.2.2. Hinges

It is allowed to use minimum (See Plate No: 13):

- 3 hinges of type tested on a door leaf up to 2300 mm in height.
- 4 hinges of type tested on a door leaf higher than 2300 mm.

Note: The number of hinges may be increased but shall not be decreased according to EN 1634-1, Section 13.2.5.

6.2.3. Locks on Active Leaf

On the active leaf the following locks can be installed as per manufacturer's instructions:

- Briton mortice locks (sahslock, latchlock, deadlock, bathroom, latch, nightlatch, escape) reference: 5520, 5530, 5540, 5550, 5555, 5560, 5410, 5420, 5430, 5440, 5470, 5710, 5720, 5730, 5740, 5750, 5760. Briton mortice lock 5520 has been tested during EUI-21-B-000377A-REV5. The other references are similar to the one tested and are accepted according to section C.1.1 of BS EN 15269-2:2012.
- Briton push bar panic exit device with mortice night latch reference 379.N (fire side only) has been tested during EUI-21-B-000554-REV4 on the exposed side of the active leaf on a double door. Based on the test data collected this product can be installed in the product family; FIRE DOR (uninsulated) 44 mm latched and unlatched.
- Dormakaba mortice locks series reference 300/200. Dormakaba 388 mortice lock has been tested during EUI-22-B-000462B-REV5. The other references are similar to the one tested and are accepted according to section C.1.1 of BS EN 15269-2:2012.
- Assa Abloy electrified mortice lock reference EL560, EL561, EL520, E532, the lock can be operated with handle and/or with Assa Bloy panic bar reference PBE011. The EL560 has been tested during EUI-22-B-000462B-REV5 and EL520 with Panic Bar PBE011 has been tested in EUI-23-B-000512-Revision 2. The other references are similar to the one tested and are accepted according to section C.1.1, C.1.12 and C.1.13 of BS EN 15269-2:2012.
- Hooply mortice sashlock reference 95 has been tested in EUI-22-B-000337-REV7. Based on the test data collected this product can be installed in the product family; FIRE DOR (uninsulated) 44 mm latched and unlatched.
- Dormakaba SVP 6268/6267/6261/6262/6263/6264. Dormakaba 6268 has been tested in EUI-22-B-000756-Revision 5. The other references are similar to the one tested and are accepted according to C.1.12 BS EN 15269-2:2012. Based on the test data collected this product can be installed in the product family; FIRE DOR (uninsulated) 44 mm latched and unlatched.
- Mico Modula mortice locks series reference Modula AD, Modula MD and Modula PE. MICO Modula MD4 has been tested during EUI-22-B-000197-REV3. The other references are similar to the one tested and are accepted according to section C.1.1 of BS EN 15269-2:2012.
- Briton single point rim panic bar reference 378 (fire side only) has been tested during EUI-23-B-000512-Revision 2 on the fire side of a single door. Based on the test data collected this product can be installed in the product family; FIRE DOR (uninsulated) 44 mm latched and unlatched.

- Briton two points rim panic bar reference 376 (fire side only) has been tested during EUI-21-B-000377A-Rev5 on the fire side of a single door. Based on the test data collected this product can be installed in the product family; FIREDOR (uninsulated) 44 mm latched and unlatched.
- Mico single point panic exit device reference MSR-1A (fire side only) has been tested during EUI-22-B-000334-REV7 on the active leaf on a double door on the fire side of the sample. Based on the test data collected this product can be installed in the product family; FIREDOR (uninsulated) 44 mm latched and unlatched.
- Mico two points rim panic exit device reference MSR-2A (fire side only) has been tested during EUI-22-B-000199-Rev7 on the fire side of a single door. Based on the test data collected this product can be installed in the product family; FIREDOR (uninsulated) 44 mm latched and unlatched.
- Salto LE75 Sashlock has been tested during EUI-25-B-000216 and accepted according to section C.1.3.1 BS EN 15269-2:2024 this product can be installed in the product family; FIREDOR (uninsulated) 44 mm latched and unlatched.

6.2.4. Hardware and locks on passive leaf:

The leaf can be equipped with one of the following and installed as per manufacturers instructions:

- Mico two points rim panic exit device reference MSR-2A has been tested during EUI-22-B-000199-Rev7 and EUI-22-B-000334-Rev 7.
- Briton two points rim panic bar reference 376 has been tested during EUI-21-B-000377A-Rev5. Based on the test data collected this product can be installed in the product family; FIREDOR (uninsulated) 44 mm latched and unlatched.
- Zero standard manual flush bolt reference Z003R has been tested during EUI-21-B-000554-Rev4. It is accepted according to C.1.21 of BS EN 15269-2:2012.
- Mico sprung tower bolt reference MSTB has been tested EUI-22-B-000337-Rev7. It is accepted according to C.1.21 of BS EN 15269-2:2012.
- Exidor tower bolt reference HS923/10 has been tested during EUI-23-B-000261-Revision 2. It is accepted according to C.1.21 of BS EN 15269-2:2012.

6.2.5. Optional Electrified Hardware

The leaf can be equipped with one of the following as per manufacturers instructions:

- Assa Abloy V-Lock reference ES8100 has been tested during EUI-22-B-000756-Rev5. It is accepted according to C.1.1 of BS EN 15269-2:2012.
- CDVI electric strike fail secure reference SIR12 has been tested during EUI-22-000756-Rev5. It is accepted according to C.1.1 of BS EN 15269-2:2012.
- GEM electric strike fail secure reference GK311 has been tested during EUI-22-000756-Rev5 and EUI-23-000512-Revision 2. It is accepted according to C.1.1 of BS EN 15269-2:2012.
- DormaKaba surface mounted maglock reference EM 1800 AH has been tested during EUI-23-B-000261-Revision 2. This reference is accepted to use on either single or double doorsets according to section C.1.12 of BS EN 15269-2:2012.
- Zero concealed cable loop reference ZCDL/RAD has been tested during EUI-22-B-000756-Rev5. This reference is accepted to use according to C.1.46 of BS EN 15269-2:2012.
- Dormakaba concealed maglock reference EM 7500-D has been tested during EUI-22-B-000462B-REV5. It is accepted according to C.1.3 of BS EN 15269-2:2012.

6.2.6. Handles and outside access device

The leaf can be equipped with one of the following as per manufacturers instructions:

- Eurospec stainless steel handle and rose reference CSL 1190SSS has been tested during EUI-21-B-000377-Rev5. It is accepted according to section C.1.12 of BS EN 15269-2:2012.
- Zoo stainless steel handle with escutcheon pack reference ZG4S030 has been tested during EUI-22-B-000337-Rev7 and EUI-22-B-000198-Rev7. It is accepted according to section C.1.12 of BS EN 15269-2:2012.
- Access stainless steel handle with rose pack reference A12110S has been tested during EUI-23-B-000261-Revision 2. It is accepted according to section C.1.12 of BS EN 15269-2:2012.
- Mico stainless steel handle reference 004-MD036 has been tested during EUI-22-B-000198-Rev7. It is accepted according to section C.1.12 of BS EN 15269-2:2012.

- Briton code lock OAD/Handle reference 9260 has been tested during EUI-23-B-000512-Revision 2. It is accepted according to section C.1.12 of BS EN 15269-2:2012.
- Briton OAD reference 1413/KE/SE/RO has been tested during EUI-21-B-000377A-Rev5 and EUI-21-B-000554-Rev4. It is accepted according to section C.1.12 of BS EN 15269-2:2012
- Salto XS4 Lever Handle has been tested during EUI-25-B-000216 and accepted according to section C.5.3.1 BS EN 15269-2:2024 this product can be installed in the product family; FIREBOR (uninsulated) 44 mm latched and unlatched.

6.2.7. Cylinders

The leaf can be equipped with one of the following as per manufacturers instructions:

- UAP europrofile cylinder reference MIN30/30NAS has been tested during EUI-22-B-000337-Rev7. Based on the test data collected this product can be installed in the product family; FIREBOR (uninsulated) 44 mm latched and unlatched.
- Eurospec europrofile cylinder reference CYA71270 is similar to the UAP europrofile cylinder reference MIN30/30NAS which was tested during EUI-22-B-000337-Rev7. Based on the test data collected this product can be installed in the product family; FIREBOR (uninsulated) 44 mm latched and unlatched.
- Mul-T-Lock europrofile cylinder reference 586D has been tested during EUI-23-B-000261-Revision 2. Based on the test data collected this product can be installed in the product family; FIREBOR (uninsulated) 44 mm latched and unlatched.
- Assa Abloy europrofile cylinder reference PROTEC2 has been tested during EUI-23-B-000512-Revision 2. Based on the test data collected this product can be installed in the product family; FIREBOR (uninsulated) 44 mm latched and unlatched.
- Vier europrofile cylinder reference V5 has been tested during EUI-22-B-000756-Rev5. Based on the test data collected this product can be installed in the product family; FIREBOR (uninsulated) 44 mm latched and unlatched.
- Carlisle Brass disabled turn & release reference CST1025SSS has been tested during EUI-23-B-000261-Revision 2. Based on the test data collected this product can be installed in the product family; FIREBOR (uninsulated) 44 mm latched and unlatched.

6.2.8. Cylinder Guards & Escutcheon:

The leaf can be equipped with one of the following as per manufacturers instructions:

- Carlisle Brass escutcheon set reference CES1005SSS has been tested during EUI-23-B-000512-Revision 2. Based on the test data collected this product can be installed in the product family; FIREBOR (uninsulated) 44 mm latched and unlatched.
- Mico cylinder guard, reference PSCH has been tested during EUI-22-B-000198-REV7. Based on the test data collected this product can be installed in the product family; FIREBOR (uninsulated) 44 mm latched and unlatched.
- UAP escutcheon set reference HSESS-NANOCOAST has been tested during EUI-22-B-000337-Rev7. Based on the test data collected this product can be installed in the product family; FIREBOR (uninsulated) 44 mm latched and unlatched.
- Mul-T-Lock cylinder guards reference Cylinder Security Protector has been tested during EUI-23-B-000261-Revision 2. Based on the test data collected this product can be installed in the product family; FIREBOR (uninsulated) 44 mm latched and unlatched.

6.2.9. Door Closer & Automatic Door Operator:

The leaf can be equipped with one of the following as per manufacturers instructions:

- Rutland slimline door closer reference TS9206. Door closer TS9206 has been tested during EUI-21-B-000377A-REV5 and EUI-21-B-000554-REV4. It is accepted according to section C.1.42 of BS EN 15269-2:2012.
- Dormakaba door closers reference TS93, TS93EMF, TS93G-SR/V, TS83FRX. The following references have been tested during EUI-22-B-000199-REV7, EUI-22-B-000197-REV3, EUI-22-B-000757-REV5, EUI-22-B-000198-REV7, EUI-22-B-000337-REV7, EUI-22-B-000334-REV7 and EUI-22-B-000756-REV5. It is accepted according to section C.1.42 of BS EN 15269-2:2012.

- Assa Abloy door closers reference DC200, DC300. DC200 and DC300 has been tested during EUI-23-B-000261-Revision 2 and EUI-23-B-000511. It is accepted according to section C.1.42 of BS EN 15269-2:2012.
- Assa Abloy door closer reference DC860 has been tested in EUI-23-B-000512-Revision 2. It is accepted according to section C.9.3 of BS EN 15269-2:2012.
- Record automatic door operator with sensors reference DFA127 has been tested during EUI-23-B-000512-Revision 2. It is accepted according to It is accepted according to section C.1.42 of BS EN 15269-2:2012.
- Dormakaba door operator reference ED100 has been tested during EUI-25-B-000179. It is accepted according to section C.13.1.1 of BS EN 15269-2:2024. Dormakaba door operator reference ED250 is accepted according to section C.13.3.1 of BS EN 15269-2:2024. Based on the test data collected this product can be installed in the product family; FIREDOR (uninsulated) 44 mm latched and unlatched.

6.2.10. Optional Hardware

The leaf can be equipped by the following hardware as per manufacturers instructions:

- Stainless steel kickplate 1.2mm thick and with a maximum height of 800mm is accepted according to section A.4.14 of BS EN 15269-2:2012.
- Stainless steel push plate with dimensions 300 x 75 x 1.2mm is accepted according to section A.4.14 of BS EN 15269-2:2012.
- Carlisle Brass SEX1016SSS signage is accepted according to section C.1.50 of BS EN 15269-2:2012.
- Ready Fix FX05108S Self Adhesive Sign accepted according to section C.1.50 of BS EN 15269-2:2012.
- Weldit DSS-76-FDKS Self Adhesive Sign accepted according to section C.1.50 of BS EN 15269-2:2012.
- UAP Door Viewer SWALFSC-FR accepted according to section C.1.47 of BS EN 15269-2:2012.
- UAP Letterplate Soterian TS008 was tested during EUI-23-B-000261-Revision 2. Based on the test data collected this product can be installed in the product family; FIREDOR (uninsulated) 44 mm latched and unlatched.
- Planet TW drop seal (ASSA ABLOY) was tested during EUI-25-B-000011. Based on the test data collected and according to section C.27.1.1 of BS EN 15269-2:2024 this product can be installed in the product family; FIREDOR (uninsulated) 44 mm latched and unlatched.
- LZR 3D Flat Screen (BEA) was tested during EUI-25-B-000179. Based on the data collected and according to section C.21.1.1 of BS EN 15269-2:2024 this product can be installed in the product family; FIREDOR (uninsulated) 44 mm latched and unlatched.

6.2.11. Glazing

The leaf can be equipped by one of the following glazing limited with the conditions in Clause 6.4.:

- A glazing reference FIRELITE 9MM (FIRELITE) with cut out dimensions in the leaf up to 508 x 1524 mm
- A glazing reference DOUBLE GLAZING FIRELITE 24MM (FIRELITE) with dimensions in the leaf up to 508 x 1524 mm
- A glazing reference FIRELITE 9MM (FIRELITE) with cut out dimensions in the leaf up to 610 x 610 mm, two vision panels from this type can be installed in the same leaf.
- According to F.1.1 of BS EN 15269-2:2024 allows the SCHOTT Pyran S 10mm glass (SCHOTT) with a maximum dimension of 583 x 1497mm with no minimum dimension can be put in the leaf with a visible dimension of 559 x 1473mm. To do so, the door cut out must be a maximum size of 612 x 1524mm recover by the facings and fixed each other by Ø4mm metal rivets at 250mm centre to centre maximum. The glazing is held in place using a steel vision frame, reference SDVP-V2 (STRONGDOR) fixed on one side by Ø4 x 30mm metal screws at 250mm centre to centre maximum. Around the perimeter of the cut out glazing tape, reference Kerafix Flexlit 10 x 4mm (CHM LTD) should be placed.
- According to F.1.1 of BS EN 15269-2:2024 allows the SCHOTT Pyran S 6mm glass (SCHOTT) with a maximum dimension of 583 x 1497mm with no minimum dimension can be put in the leaf with a visible dimension of 559 x 1473mm. To do so, the door cut out must be

a maximum size of 612 x 1524mm recover by the facings and fixed each other by Ø4mm metal rivets at 250mm centre to centre maximum. The glazing is held in place using a steel vision frame, reference SDVP-V2 (STRONGDOR) fixed on one side by Ø4 x 30mm metal screws at 250mm centre to centre maximum. Around the perimeter of the cut out glazing tape, reference Kerafix Flexlit 10 x 4mm (CHM LTD) should be placed.

6.2.12. Louvre

A PAS24 (STRONGDOOR) louvre with size maximum 508 x 1524 mm (w x h) can be installed in the leaf.

6.2.13. Intumescent seals

Although there is not any harmonised standard as a reference for addition of an intumescent seal, the historical test data of similar construction of doorset with and/or without intumescent shows that a graphite intumescent seal of 15 x 1.8 mm can be installed on the perimeter of the leaf or on the Jamb and Header.

6.2.14. Smoke seals

Silicone seal type 388s, 488s, 188s and 1771S can be installed.

6.2.15. Smoke performance doors

- According to F.1.9 of BS EN 15269-20:2020 allows the FIRELITE 9mm (FIRELITE) glass to be replaced with FIRELITE 24mm (FIRELITE) glass.
- According to C.1.49 of BS EN 15269-20:2020 allows the 96mm threshold (STORMGUARD) to be replaced with either the AM3 or AM5 threshold (STORMGUARD).

6.2.16. Supporting construction

The doors are mounted in a normalised high-density rigid construction of 2101 kg/m³ with a minimum thickness of 140 mm or in a flexible supporting construction as described in paragraph 7.2.2.4. of standard EN 1363-1, of **which the fire performance duration is at least equal to those of the doors.**

Those mean features are defined below:

Intended fire resistance	Nominal steel stud depth [mm]			Gypsum boards type F, EN 520		Insulation: mineral wool	
	Group A	Group B	Group C	number of layers at each side	thickness of boards [mm]	thickness [mm]	density [kg/m ³]
EI 30	44 - 55	56 - 75	76 - 100	1	12,5	40-50	30-60
EI 60	44 - 55	56 - 75	76 - 100	2	12,5	40-50	30-60
EI 90	44 - 55	56 - 75	76 - 100	2	12,5	40-50	85-115
EI 120	62 - 70	71 - 75	76 - 100	2	15	60-70	85-115

6.2.17. Permissible dimension variations of leaf:

6.2.17.1. Single leaf door

	Width (mm)	Height (mm)
Minimal	Unlimited	Unlimited
Maximal	1380	2702.5
The leaf area shall not exceed 3.4 m²		

6.2.17.2. Double leaves door (dimensions of each leaf without the astragal)

	Width (mm)	Height (mm)
Minimal	Unlimited	Unlimited
Maximal	1095	2699
The leaf area shall not exceed 2,68 m²		

6.2.17.3. Single leaf unlatched door

	Width (mm)	Height (mm)
Minimal	Unlimited	Unlimited
Maximal	1159	2645
The leaf area shall not exceed 2,78 m²		

6.2.17.4. Double leaves unlatched door (dimensions of each leaf without astragal)

	Width (mm)	Height (mm)
Minimal	Unlimited	Unlimited
Maximal	1035	2645
The leaf area shall not exceed 2,76 m²		

For unequal leaves, the minimum authorised width is 450mm.

6.2.18. Permissible dimension variations of side and top panels:

6.2.18.1. With glazing

Top panel: Dimensions of the glazing:

	Width (mm)	Height (mm)
Minimal	Unlimited	Unlimited
Maximal	2490	604

Side panel: Dimensions of the glazing:

	Width (mm)	Height (mm)
Minimal	Unlimited	Unlimited
Maximal	710	2000

6.2.18.2. With opaque panel

Top panel: Dimensions of the panel – 44 mm thick:

	Width (mm)	Height (mm)
Minimal	Unlimited	Unlimited
Maximal	2886	701
The area shall not exceed 1,83 m²		

Side panel: Dimensions of the panel – 44 mm thick:

	Width (mm)	Height (mm)
Minimal	Unlimited	Unlimited
Maximal	814	2297
The area shall not exceed 1,69 m²		

Top panel: Dimensions of the panel – 20 mm thick :

	Width (mm)	Height (mm)
Minimal	Unlimited	Unlimited
Maximal	2886	701
The area shall not exceed 1,83 m²		

Side panel: Dimensions of the panel – 20 mm thick:

	Width (mm)	Height (mm)
Minimal	Unlimited	Unlimited
Maximal	814	2297
The area shall not exceed 1,69 m²		

6.2.19. Maximum permitted clearance measurements:

Largest tested clearance were calculated in line with the direct application of EN 1634-1 and limited for the entire package for both single and double leaves.

for single leaf door

- Upper transom : 6,6 mm
- On hinges side : 6,6 mm
- On lock side : 6,6 mm
- At the threshold : 14,7 mm

for double leaves door

- Upper transom : 6,6 mm
- On hinges side : 6,6 mm
- On lock side : 6,6 mm

- At the threshold : 14,7 mm

6.3. APPLICATION RANGE – PRODUCT FAMILY

Hinges turning away from the fire and into the fire if the hardware is tested at both sides

7. FIRE PERFORMANCE PARAMETER

The fire resistance performance is for latched and Unlatched doors:

- With the 9MM FIRELITE glass:
- Without the G-SR/V door coordinator:

R	E	I	W		t	-	M	C	S	G	K
	E				120						

- With the 9MM FIRELITE glass (limited with see Clause 3.2.3 and keeping the glass-glass and/or glass-leaf edge distance same as tested.):
- With G-SR/V door coordinator:

R	E	I	W		t	-	M	C	S	G	K
	E				90						

- With the DOUBLE GLAZING FIRELITE 24MM (FIRELITE) glass (limited with see Clause 3.1 and keeping the glass-glass and/or glass-leaf edge distance same as tested):
- Without the G-SR/V door coordinator:

R	E	I	W		t	-	M	C	S	G	K
	E				120						

For single door the fire resistance performance can be with the following conditions:

- Without side and/or top panels;
- Without the 9MM FIRELITE glass;
- With G-SR/V door coordinator;
- Leaf maximum size 858 x 2040 mm:

R	E	I	W		t	-	M	C	S	G	K
	E		W		90						

For single door the fire resistance performance can be with the following conditions:

- Without side and/or top panels;
- With the 24MM FIRELITE glass;
- Leaf maximum size 1380 x 2702.5 mm (w x h):

R	E	I	W		t	-	M	C	S	G	K
	E				60						
	E		W		45						

For single door the fire resistance performance can be with the following conditions:

- Without side and/or top panels;
- With the 6mm Pyran S (SCHOTT) glass;
- Leaf maximum size 1159.2mm x 2702.5 mm (w x h):

R	E	I	W		t	-	M	C	S	G	K
	E				60						
	E		W		20						

For single door the fire resistance performance can be with the following conditions:

- Without side and/or top panels;
- With the 6mm Pyran S (SCHOTT) glass;
- Leaf maximum size 1008mm x 2350mm (w x h):

R	E	I	W		t	-	M	C	S	G	K
	E				90						
	E		W		20						

For single door the fire resistance performance can be with the following conditions:

- Without side and/or top panels;
- With the 10mm Pyran S (SCHOTT) glass;
- Leaf maximum size 1159.2mm x 2702.5 mm (w x h):

R	E	I	W		t	-	M	C	S	G	K
	E				90						
	E		W		30						

For double doors the fire resistance performance can be with the following conditions:

- Without side and/or top panels;
- Without glass and louvre in the leaves;
- Leaf maximum size: (952.5 + 952.5) x 2347 mm

R	E	I	W		t	-	M	C	S	G	K
	E		W		30						

For double and single latched doors with smoke performance can be with the following conditions:

- With 1777S Smoke Seal (ZERO INTERNATIONAL);
- Without louvre in the leaves;
- With 96mm, AM3 or AM5 threshold (STORMGUARD);
- With 9mm or 24mm FIRELITE glass;

R	E	I	W		t	-	M	C	S	G	K
									SA ₄		

Declaration by the applicant

We confirm that the component or element of structure, which is the subject of this assessment has not to our knowledge been subjected to a fire test to the standard against which this assessment is being made.

We confirm that the change which is the subject of this assessment has not to our knowledge been tested to the standard against which this assessment has been made.

We agree to withdraw this assessment circulation should the component or element of structure be the subject of a fire test to the standard against which this assessment is being made.

We understand that this assessment is based on test evidence and will be withdrawn should evidence become available that causes the conclusion to be questioned. In that case, we accept that new test evidence may be required.

We are not aware of any information that could affect the conclusions of this assessment.

If we subsequently become aware of any such information, we agree to cease using the assessment and ask EFACTIS to withdraw the assessment.

Signed: Stefan Devenish

For and on behalf of Strongdor Ltd

Limitations

The following limitations apply to this technical assessment report:

This technical assessment document does not represent type approval or certification of the product.

This technical assessment document addresses itself solely to the elements and subjects discussed and do not cover any other criteria. All other details not specifically referred to should remain as tested or assessed.

This technical assessment document is issued on the basis of test data and information to hand at the time of issue. If contradictory evidence becomes available, Efectis reserves the right to withdraw the extended application unconditionally but not retrospectively.

Opinions and interpretations expressed herein are outside the scope of UKAS accreditation.

This technical assessment document relates only to those aspects of design, materials and construction that influence the performance of the element(s) under fire resistance test conditions. It does not purport to be a complete specification ensuring fitness for purpose and long-term serviceability. It is the responsibility of the client to ensure that the element conforms to recognised good practice in all other respects and that, with the incorporation of the guidance given in this technical assessment, the element is suitable for its intended purpose.

This technical assessment considers the performance likely to be demonstrated by the Firedor (uninsulated) 44mm product family if it were to be tested in accordance with BS EN 1634-1:2014 + A1:2018, on the basis of the test evidence referred to in this report and the relevant EXAP rules taken from BS EN 15269-2: 2012. We express no opinion as to whether that evidence, and/or this extended field of application, would be regarded by any Building Control authority as sufficient for that or any other purpose. This technical assessment has been written for the purpose of classifying the fire resistance of the Firedoor (uninsulated) 44mm product family to BS EN 13501-2: 2016 and we cannot opine on whether it will be accepted by Building Control authorities or any other third parties for any purpose.

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EFFECTIS SIGNATORIES

Belfast, 24/11/2025

24/11/2025

25/11/2025

X


Megan O'NEILL

Signed by: Megan O'NEILL

Megan O'Neill
Project Leader

X


Yusuf USTUNDAG

Signed by: Yusuf USTUNDAG

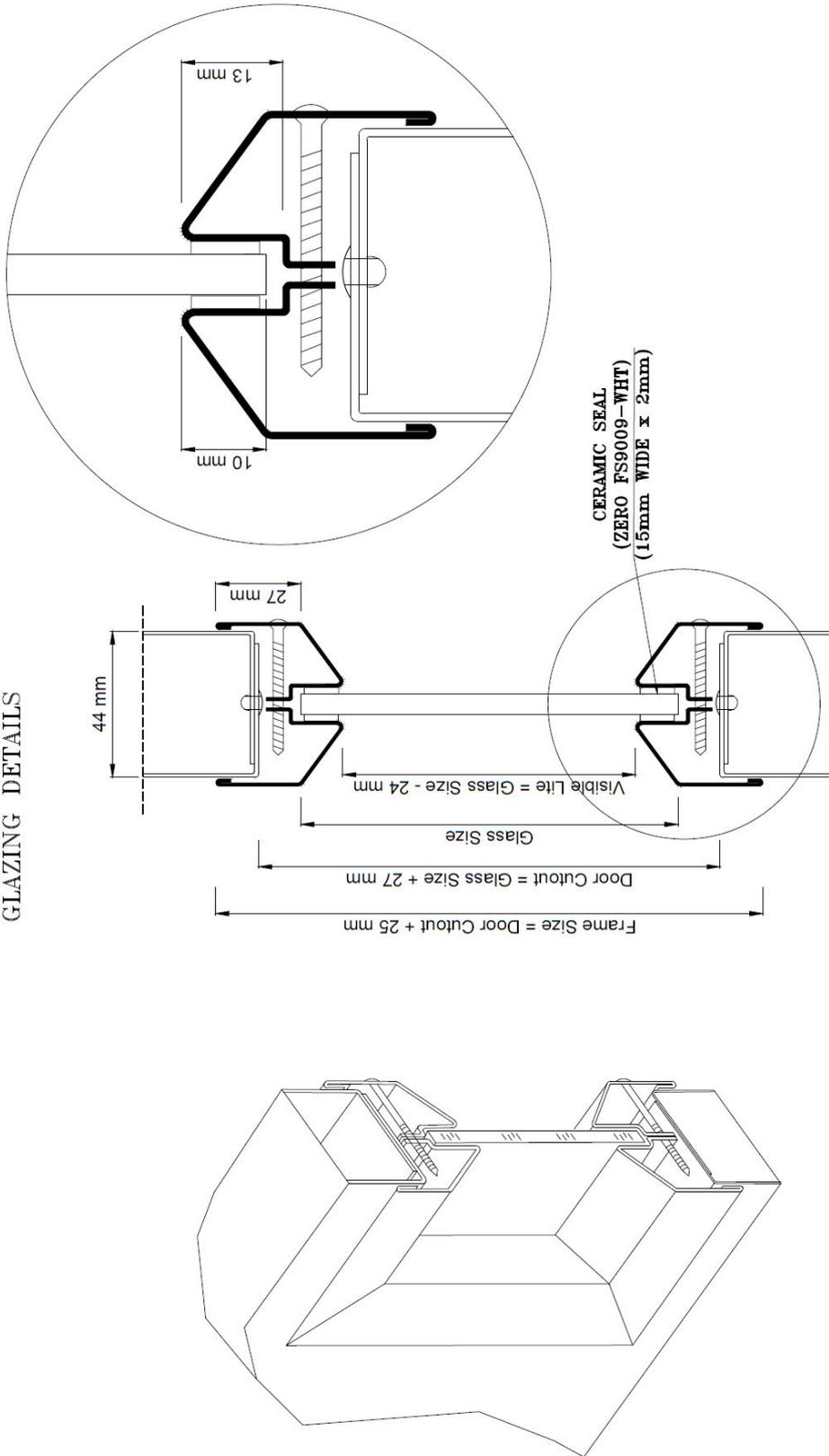
Yusuf Ustundag
Technical Testing Supervisor

The assessment report is not valid unless it incorporates the declaration duly signed by the applicants.

END OF THE DOCUMENT

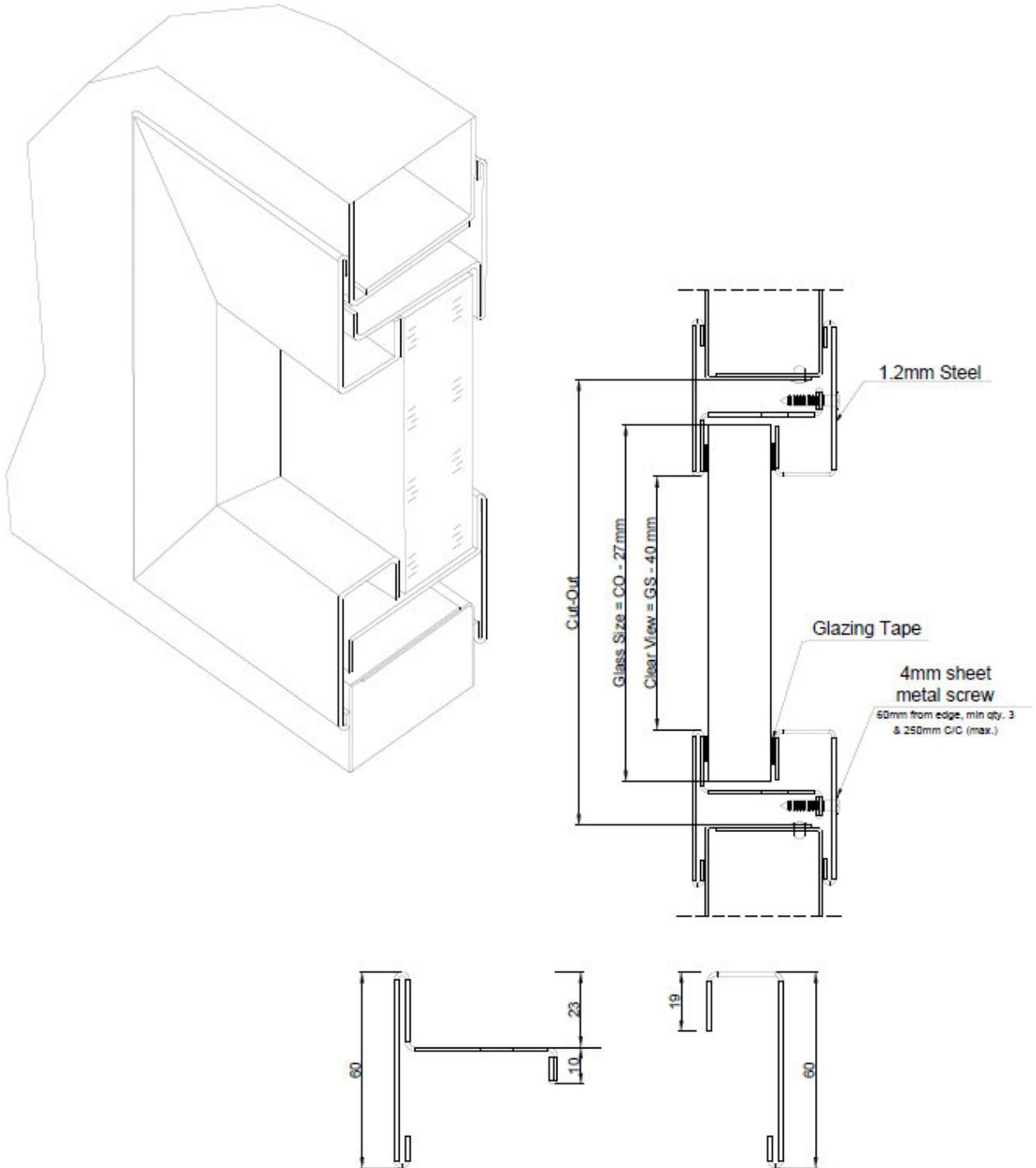
Plate n° 2: Leaf glass detail

GLAZING DETAILS



	Project Name	File name:	Date:	Notes:
	Panels, Glass & Louver testing Drawing Title Glazing Details	S20	19/05/2022	
		Revision:	Scale:	
		V0	All dimensions are in mm do not scale drawing	

Plate n° 3: Leaf glass detail



	Project Name: Strongdor Vision Panel	File Name: SDVP-V2	Date: 27/01/2025	Notes:
	Issuing Title: Strongdor Standard Vision	Revision: V1	Scale: All dimensions are in mm do not scale drawing	

Plate n° 4: Variations for panel

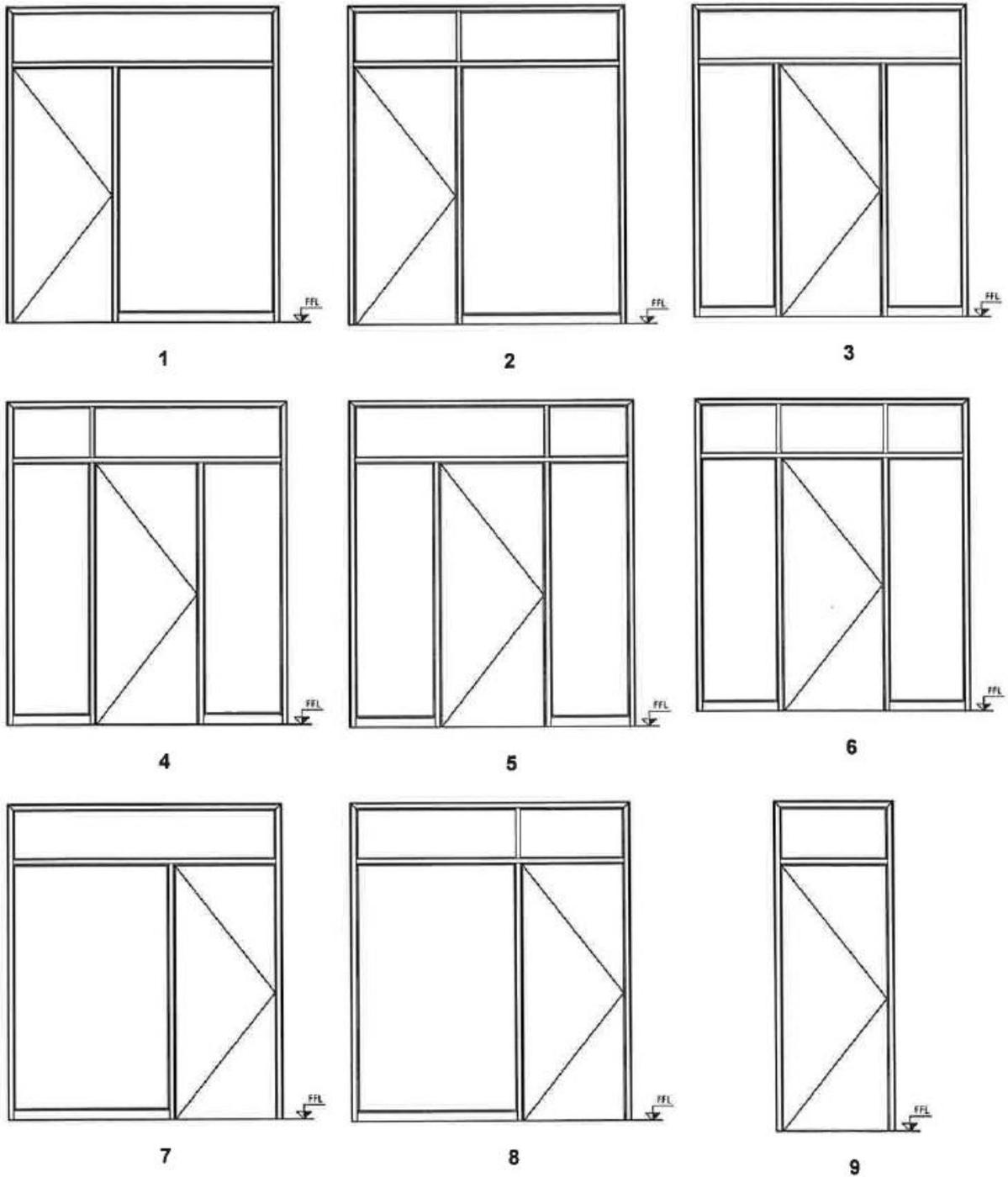
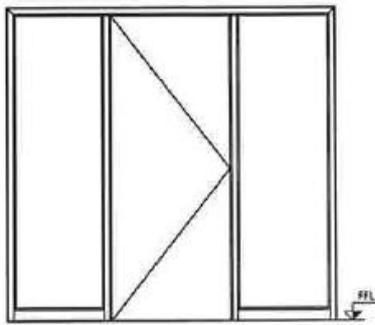
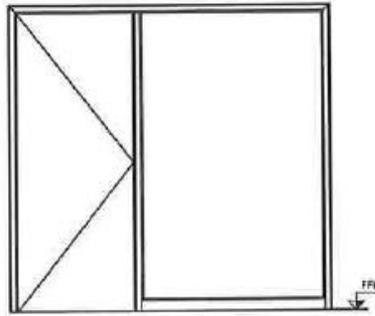


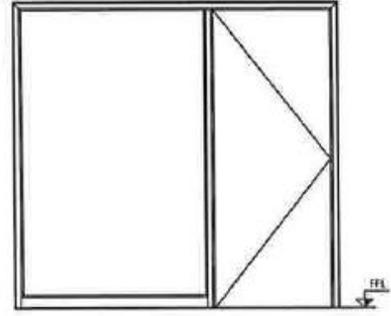
Plate n° 5: Variations for panel



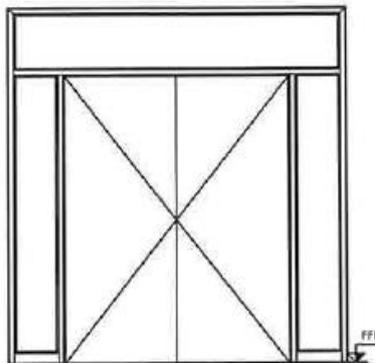
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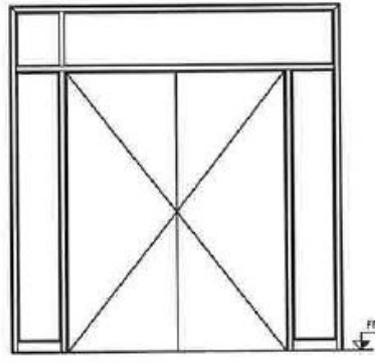
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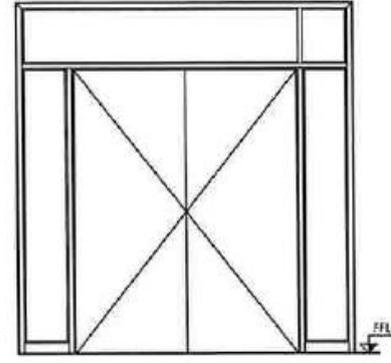
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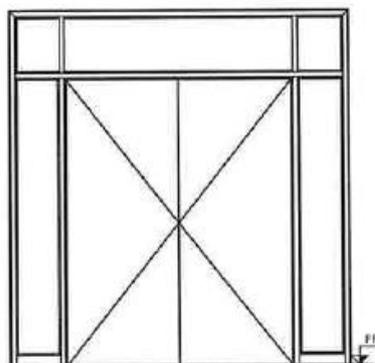
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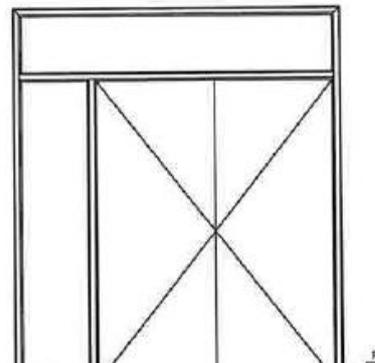
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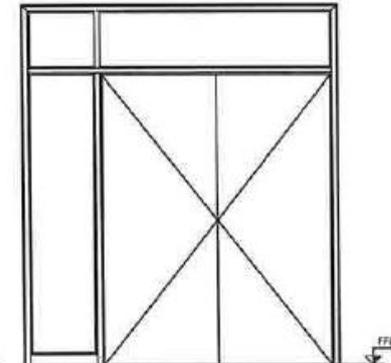
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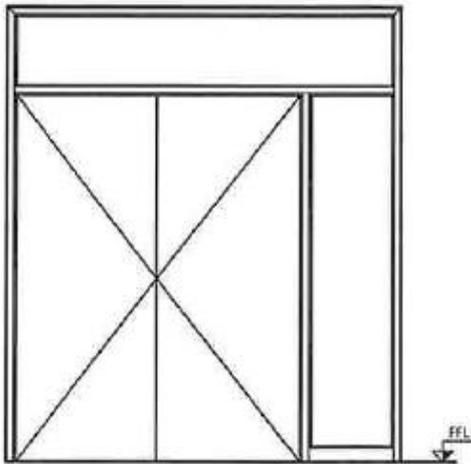


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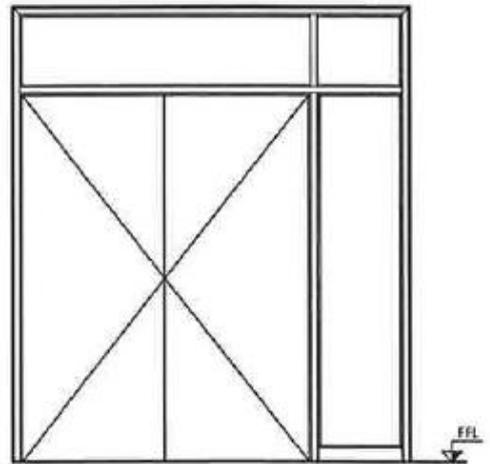


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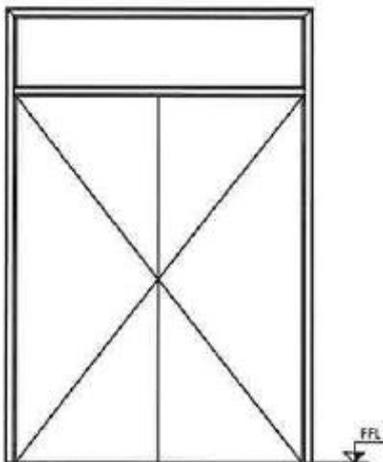
Plate n° 6: Variations for panel



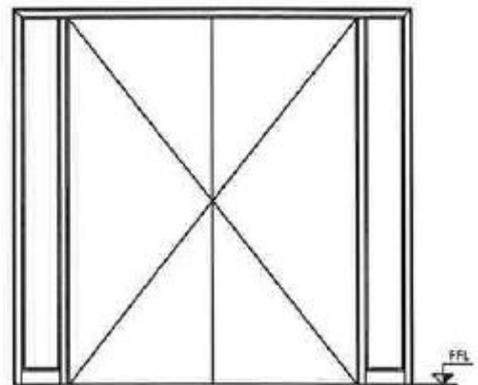
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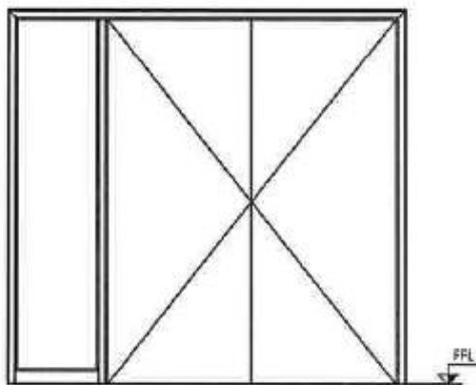
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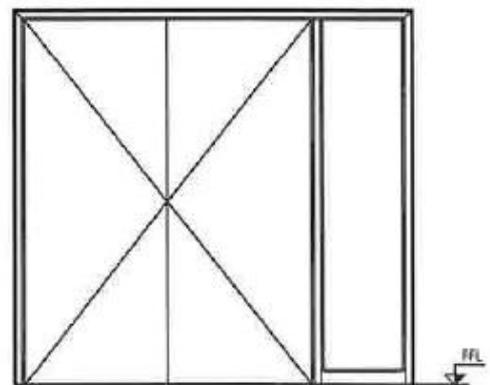
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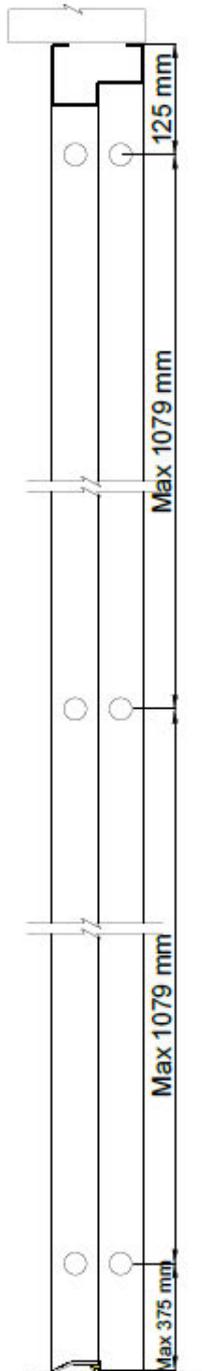
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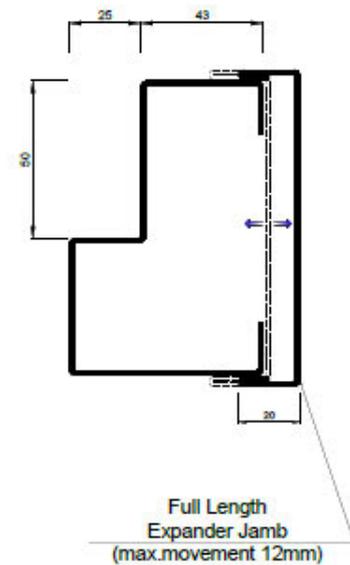
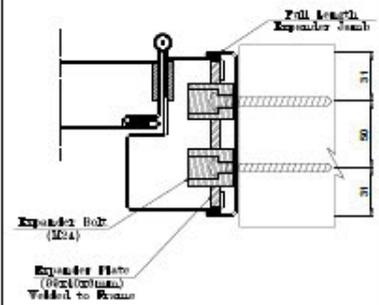
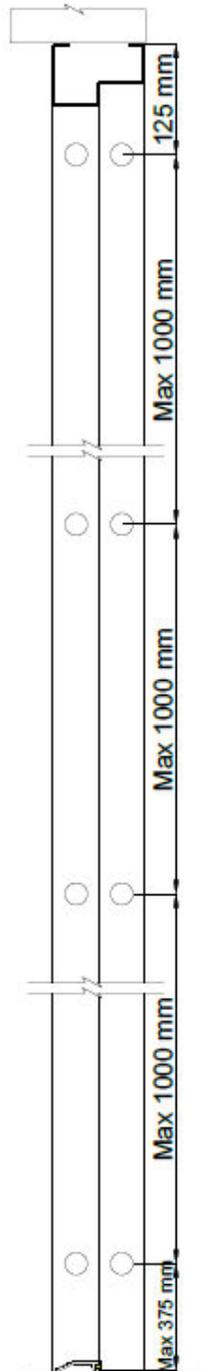
24

Fixings distribution

3 Fixings Option



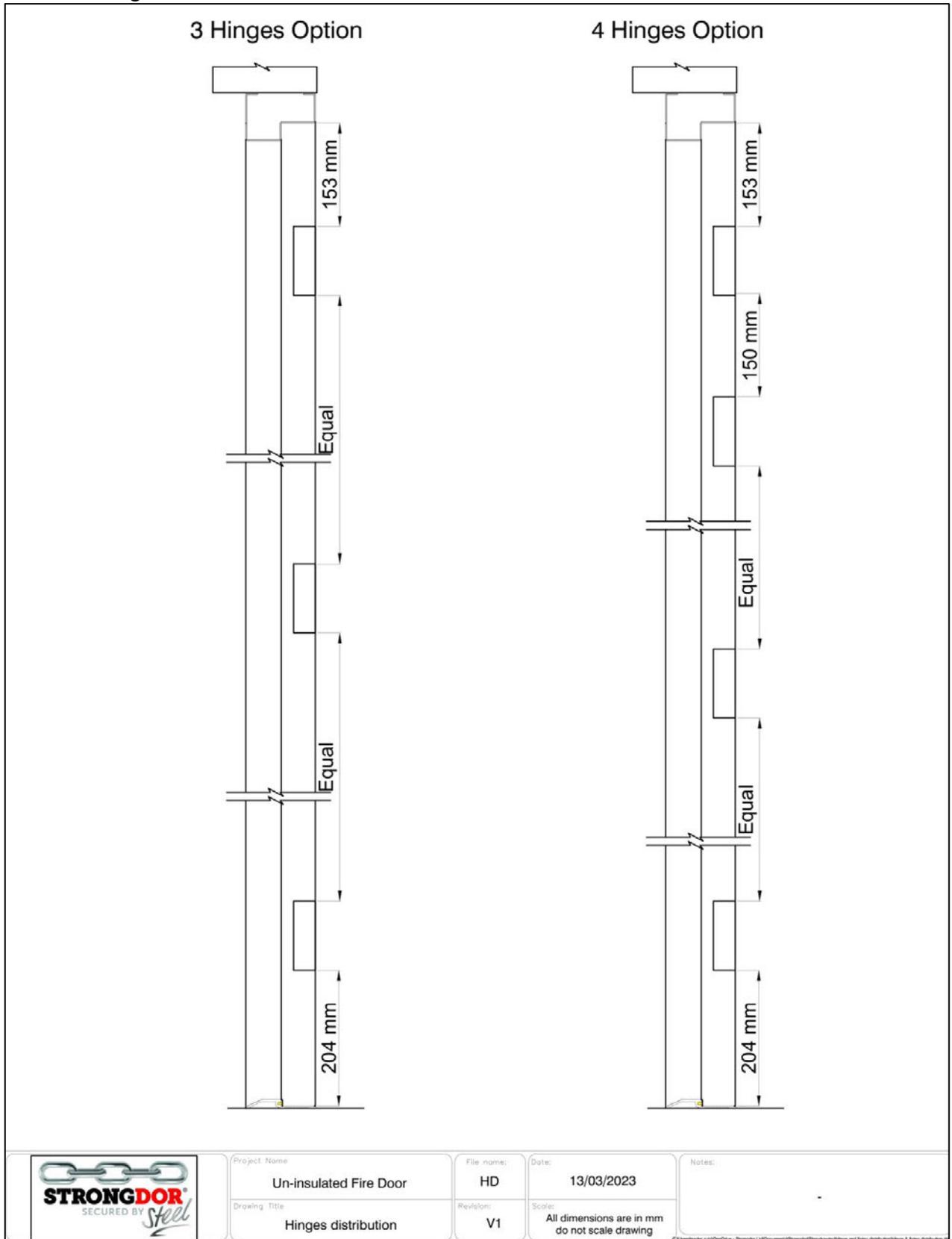
4 Fixings Option



	Project Name	R# Name	Date	Notes
	Un-insulated Fire Door	HD	13/03/2023	
	Drawing Title	Revision	Scale	
	Fixings distribution	V2	All dimensions are in mm do not scale drawing	

Plate n° 7: Fixings distribution

Plate n° 8: Hinges distribution



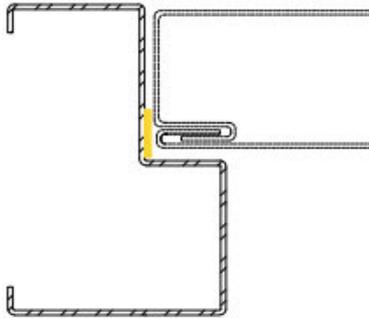
Project Name	Un-insulated Fire Door
Drawing Title	Hinges distribution

File name:	HD	Date:	13/03/2023
Revision:	V1	Scale:	All dimensions are in mm do not scale drawing

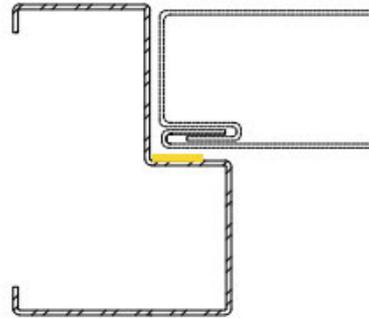
Notes:	
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Plate n° 9: Intumescent Seals Location

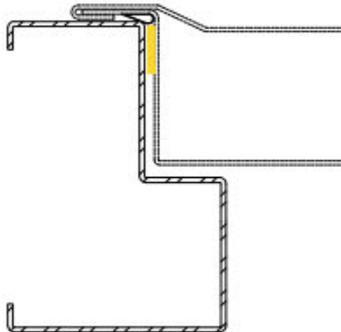
HINGE SIDE (Option 1)



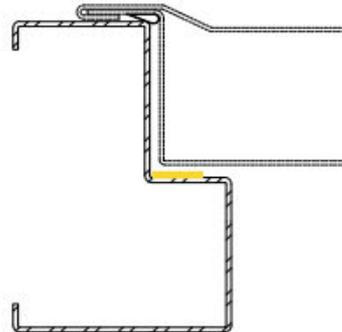
HINGE SIDE (Option 2)



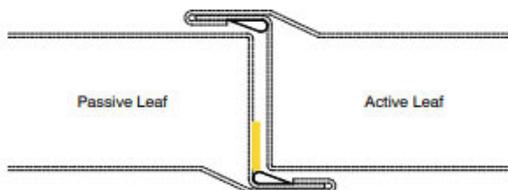
LOCK SIDE (Option 1)



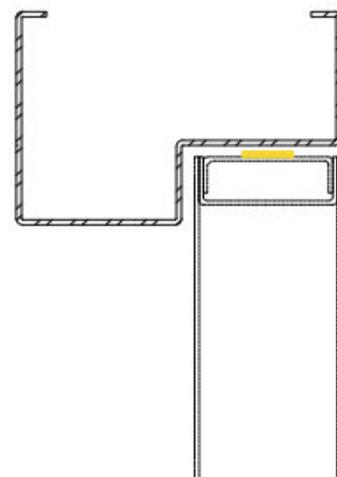
LOCK SIDE (Option 2)



DOUBLE DOOR (Option 1)



TOP OF THE LEAF



DOUBLE DOOR (Option 2)

