



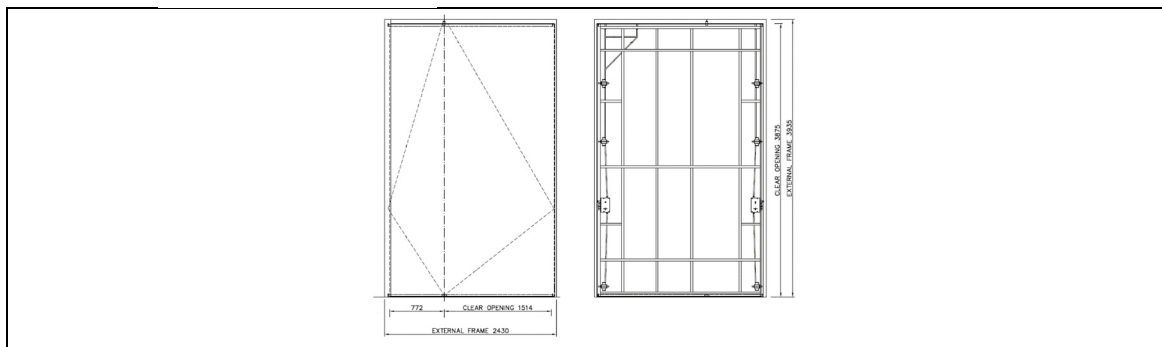
BLACKWATER

TESTING LAB



IAS Accreditation Number: **TL-802**

Miami-Dade Certification: **23-1208.09**



**ASTM E283-04, ASTM E331-00, TAS 202-94, TAS 201-94, TAS 203-94 &
ASTM F588-14**

TEST REPORT

Rendered to:

Davinci Design Windows, LLC

SERIES/MODEL: Solid pivot door

PRODUCT TYPE: Pivot door

Report ID: BW-DAV-26-001

Test Date: 04/01/2021

Report Date: 08/18/2026

Detention End Date: 08/18/2036



Revision Log

<u>Rev.#</u>	<u>Date</u>	<u>Page(s)</u>	<u>Revision(s)</u>
A	08/18/2026	85	Update the report owner's name, original report BW-FBS-20-001

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**ASTM E283-04, ASTM E331-00, TAS 202-94, TAS 201-94, TAS 203-94 &
ASTM F588-14**

TEST REPORT

Rendered to:

Davinci Design Windows, LLC

214 Benton Street, Stratford CT 06615

United States of America

ph:+1 (203) 202-3966

e-mail: info@davinciwindow.com

Report ID: BW-DAV-26-001

Test Date: 04/01/2021

Report Date: 08/18/2026

Detention End Date: 08/18/2036

Project Summary: BLACKWATER TESTING srl was contracted by **Davinci Design Windows, LLC** to perform testing per **Solid pivot door**. The objects evaluated are identified and mentioned above, the results presented in this report concern only the objects tested as received by the customer. Test/Tests was/were performed at BLACKWATER TESTING srl facility:

via Piroleri 19,

31030 | Altivole (TV)

ITALIA

Test Procedure: the test specimens were evaluated in accordance with the following protocols and standards:

Specimen 1: [#20.013.015] Solid pivot door

NAME	STANDARD/PROTOCOL	NOTE
AIR LEAKAGE	ASTM E283-04	P= 300Pa = 6.27psf
WATER STATIC PEN.	ASTM E331-00(2016)	P= 504Pa = 10.53 psf
UNIFORM LOAD DEFL.	TAS 202-94	P= ± 3352 Pa = ± 70.00 psf
UNIFORM LOAD STRUCT.	TAS 202-94	P= ± 5028 Pa = ± 105.00 psf
LARGE MISSILE IMPACT	TAS 201-94	Missile Level D
CYCLIC LOAD	TAS 203-94	P= ± 3352 Pa = ± 70.00 psf
FORCE ENTRY	ASTM F588-14	Type C / Grade 10

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Specimen 2: [#20.013.016] Solid pivot door

NAME	STANDARD/PROTOCOL	NOTE
UNIFORM LOAD DEFL.	TAS 202-94	P= $\pm 3352\text{Pa}$ = $\pm 70.00\text{psf}$
UNIFORM LOAD STRUCT.	TAS 202-94	P= $\pm 5028\text{Pa}$ = $\pm 105.00\text{psf}$
LARGE MISSILE IMPACT	TAS 201-94	Missile Level D
CYCLIC LOAD	TAS 203-94	P= $\pm 3352\text{Pa}$ = $\pm 70.00\text{psf}$
FORCE ENTRY	ASTM F588-14	Type C / Grade 10

Specimen 3: [#20.013.017] Solid pivot door

NAME	STANDARD/PROTOCOL	NOTE
UNIFORM LOAD DEFL.	TAS 202-94	P= $\pm 3352\text{Pa}$ = $\pm 70.00\text{psf}$
UNIFORM LOAD STRUCT.	TAS 202-94	P= $\pm 5028\text{Pa}$ = $\pm 105.00\text{psf}$
LARGE MISSILE IMPACT	TAS 201-94	Missile Level D
CYCLIC LOAD	TAS 203-94	P= $\pm 3352\text{Pa}$ = $\pm 70.00\text{psf}$
FORCE ENTRY	ASTM F588-14	Type C / Grade 10

Assumption and technical interpretation

The deflection gauges were installed in the middle between two anchors:

- Vertical deflection gauges were installed at:
 - Inswing side on the frame, at 9/16" (15mm) on center from the internal frame edge, the vertical span was 151-9/16" (3850mm).
 - Outswing side on the sash, at 9/16" (15mm) on center from the external sash profile edge, the vertical span was 151-9/16" (3850mm).
- Horizontal deflection gauge was installed at:
 - Upper sash profile, at 9/16" (15mm) on center from the external sash profile edge, the horizontal span was 59-1/16" (1500mm).

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SPECIMEN 1 [#20.013.015]

Series/Models: Hurricane Test – solid pivot door

Product Type: Pivot door

Material: Steel profile with Laridoor wood cover elements

Overall size: 7' 11-5/8" W x 12' 10-15/16" H (2430mm W x 3935mm H)

Rough Opening: 8' 7/8" W x 12' 11-1/2" H (2460mm W x 3950mm H)

Configuration: X

Panel size: 7' 6" W x 12' 8-9/16" H (2286mm W x 3875mm H)

Panel weight: 1514.6 lb (687kg)

Drawing Reference: Bilico test antiuragano.pdf

Arrival Date: 03/11/2020

SPECIMEN 2 [#20.013.016]

Series/Models: Hurricane Test – solid pivot door

Product Type: Pivot door

Material: Steel profile with Laridoor wood cover elements

Overall size: 7' 11-5/8" W x 12' 10-15/16" H (2430mm W x 3935mm H)

Rough Opening: 8' 7/8" W x 12' 11-1/2" H (2460mm W x 3950mm H)

Configuration: X

Panel size: 7' 6" W x 12' 8-9/16" H (2286mm W x 3875mm H)

Panel weight: 1514.6 lb (687kg)

Drawing Reference: Bilico test antiuragano.pdf

Arrival Date: 03/11/2020

SPECIMEN 3 [#20.013.017]

Series/Models: Hurricane Test – solid pivot door

Product Type: Pivot door

Material: Steel profile with Laridoor wood cover elements

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Overall size: 7' 11-5/8" W x 12' 10-15/16" H (2430mm W x 3935mm H)

Rough Opening: 8' 7/8" W x 12' 11-1/2" H (2460mm W x 3950mm H)

Configuration: X

Panel size: 7' 6" W x 12' 8-9/16" H (2286mm W x 3875mm H)

Panel weight: 1514.6 lb (687kg)

Drawing Reference: Bilico test antiuragano.pdf

Arrival Date: 03/11/2020

Disclaimer

This is a general statement and does not supersede the specific product descriptions in this report. The samples are in conformance with the attached drawings. These drawings have been marked to indicate the appropriate portions descriptive of this test series.

Blackwater Testing srl does not take responsibility for product performance and whose only purpose is to test and gather pertinent data under test report format for the client.

X  ANDREA TURCATO
27.08.2026 11:57:21
GMT+02:00

Inq. Andrea Turcato
Director of laboratory

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INDEPENDENCE STATEMENT

To: Whom it may concern

From: Blackwater Testing srl

Manufacturer: Davinci Design Windows, LLC

214 Benton Street, Stratford CT 06615

United States of America

Dear Mrs. and Mr.,

Please note that Blackwater Testing srl does not have, nor will I acquire, a financial interest in any company manufacturing or distributing the product(s) for which this report is realized. Blackwater Testing srl was contracted by Davinci Design Windows, LLC to perform the test(s) and to elaborate report(s) for the following product(s).

Respectfully submitted,


X

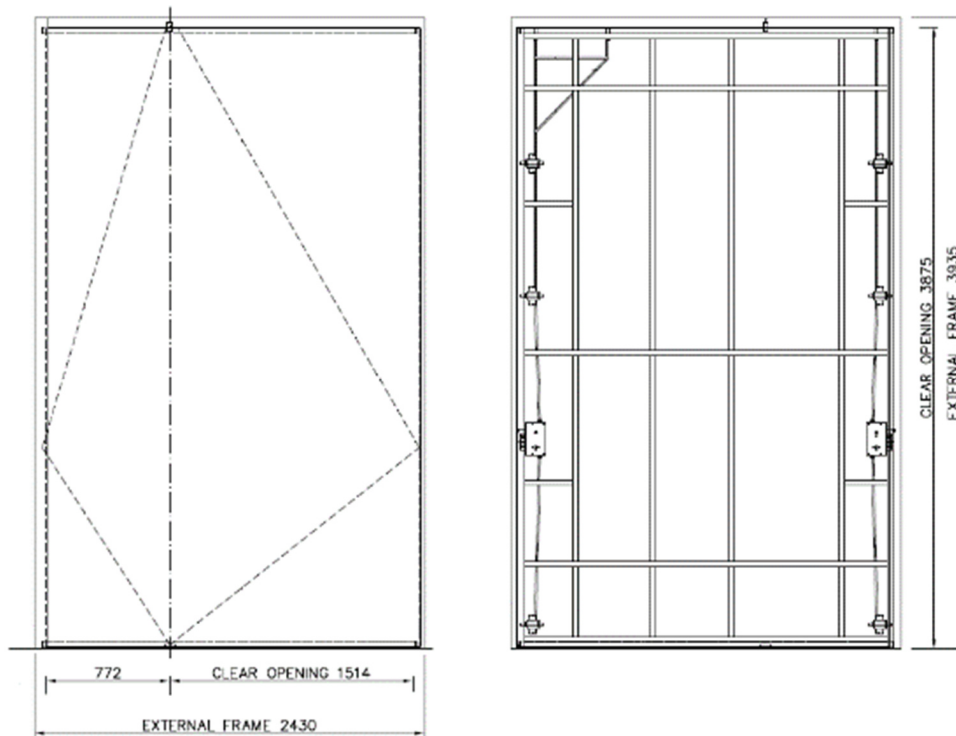
ANDREA TURCATO
27.08.2026 11:57:21
GMT+02:00

Inq. Andrea Turcato
Director of Laboratory

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PRODUCT DESCRIPTION



SPECIMEN 1 [#20.013.015]
SPECIMEN 2 [#20.013.016]
SPECIMEN 3 [#20.013.017]

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FRAME CONSTRUCTION

The head frame member is realized with a steel "O-profile" (ref.A4) cover with a Laridoor wood element (ref.C4). Inswing jamb frame member is realized with a steel "L-profile" (ref. A1) with the profile leg to the exterior side, cover with a Laridoor wood element (ref.C1). Outswing jamb frame member is realized with a steel "L-profile" (ref.A1) with the profile leg to the interior side, cover with a Laridoor wood element (ref.C4). The sill frame member is realized with an aluminum 6060 T6 (ref.B4).

SASH CONSTRUCTION

The head sash member is realized with a steel "H-profile" (ref.A5). Inswing jamb sash member is realized with a steel "T-profile", with the profile leg to the interior side. Outswing jamb sash member is realized with a steel "Z-profile" (ref.A3). Sill sash member is realized with a steel "H-profile" (ref.A5). Sash profiles are covered with a Laridoor wood panel (ref.C2).

PANEL CONSTRUCTION

The slab is realized with a steel plate (ref.A8) of 5/64" (2mm) of thickness, covered with an exterior Laridoor wood panel (ref.C2), reinforced with a tubular steel structure. Four vertical steel tube 1-3/16" x 3-5/32" x 1/8" (30mm x 80mm x 3mm) are connected by a weld joint to the head and sill sash profiles, at 1' 3-13/16" (402mm) from the right corner, at 2' 10-11/16" (882mm) from the right corner, at 4' 6-1/4" (1378mm) from the right corner, and at 6' 9-3/16" (2062mm) from the right corner. Three horizontal steel tube 1-3/16" x 3-5/32" x 1/8" (30mm x 80mm x 3mm) are connected by a weld joint to the jamb sash profiles, at 1' 8-3/4" (528mm) from the bottom, at 6' 5/8" (1845mm) from the bottom, and 11' 5-9/16" (3495mm) from the bottom. Two horizontal steel tube 1-3/16" x 3-5/32" x 1/8" (30mm x 80mm x 3mm) are connected by a weld joint to the inswing jamb sash and the first vertical tube, at 3' 4-5/8" (1032mm) from the bottom, and at 9' 1-3/32" (2771mm) from the bottom. Two horizontal steel tube 1-3/16" x 3-5/32" x 1/8" (30mm x 80mm x 3mm) are connected by a weld joint to the outswing jamb sash and the last vertical tube, at 3' 4-5/8" (1032mm) from the bottom, and 9' 1-3/32" (2771mm) from the bottom.

Three gasket lines are installed in the section head, starting from the exterior side: a bottom seal (ref.B6) installed in the frame head member, a sill system is installed upsidedown with an aluminum 6060 T6 threshold (ref.B4) fixed to the frame profile and a drop-down seal (ref.B5) fixed to the sash profile, the last EPDM weatherstripping (ref.B3) installed in the frame profile interior edge.

Four gasket lines are installed in the inswing jamb section, starting from the exterior side: a polyurethane foam core gasket (ref.B2) is installed in the frame Laridoor wood cover, an EPDM weatherstripping (ref.B1) is screwed against the steel frame profile, an EPDM weatherstripping (ref.B3) is installed in the steel frame profile, and the last EPDM weatherstripping (ref.B1) is screwed against the steel sash profile.

Four gasket lines are installed in the outswing jamb section, starting from the exterior side: a polyurethane foam core gasket (ref.B2) is installed in the sash Laridoor wood cover panel, an EPDM weatherstripping (ref.B1) is screwed against the steel sash profile, and EPDM weatherstripping (ref.B3) is installed in the steel frame profile, and the last EPDM weatherstripping (ref.B1) is screwed against the steel frame profile.

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Three gasket lines are installed in the section sill, starting from the exterior side: a bottom seal (ref.B6) installed in the sash sill member, an aluminum 6060 T6 threshold (ref.B4) is installed as sill frame member with a drop-down seal (ref.B5) fixed to the sash profile, the last EPDM weatherstripping (ref.B3) installed in the frame profile.

Bottom corners are protected with a No-Air system (ref.B7), in both the cases (inswing and outswing jamb) is installed between the second and third gasket lines.

Wood cladding is realized with Okume spicy with S.G. = 0.45.

HARDWARE

Steel AISI316 pivot hardware (ref.M00830-1) is installed both in the head and in the sill section, at 2' 9-1/4" (844mm) from the left corner, and at 5' 2-7/16" (1586mm) from the right corner.

Two multipoint lock systems are used in both the sash section, each system has three multipoint lock device and one lock system device. The multipoint lock devices are distributed starting from the bottom at 5-15/16" (151mm) from the bottom, 7' 1-3/8" (2169mm) at from the bottom, and at 9' 9-13/16" (2993mm) from the bottom; the single lock device is installed at 4' 2-1/2" (1283mm) from the bottom.

SEALANT

Perimetral waterproof silicone is used to reduce water infiltration, all the specimen perimeter is sealed.

DRAINAGE

No drainage system is present.

REINFORCEMENT

The slab is reinforced with a tubular steel structure. Four vertical steel tube 1-3/16" x 3-5/32" x 1/8" (30mm x 80mm x 3mm) are connected by a weld joint to the head and sill sash profiles, at 1' 3-13/16" (402mm) from the right corner, at 2' 10-11/16" (882mm) from the right corner, at 4' 6-1/4" (1378mm) from the right corner, and at 6' 9-3/16" (2062mm) from the right corner.

Three horizontal steel tube 1-3/16" x 3-5/32" x 1/8" (30mm x 80mm x 3mm) are connected by a weld joint to the jamb sash profiles, at 1' 8-3/4" (528mm) from the bottom, at 6' 5/8" (1845mm) from the bottom, and 11' 5-9/16" (3495mm) from the bottom.

Two horizontal steel tube 1-3/16" x 3-5/32" x 1/8" (30mm x 80mm x 3mm) are connected by a weld joint to the inswing jamb sash and the first vertical tube, at 3' 4-5/8" (1032mm) from the bottom, and at 9' 1-3/32" (2771mm) from the bottom.

Two horizontal steel tube 1-3/16" x 3-5/32" x 1/8" (30mm x 80mm x 3mm) are connected by a weld joint to the outswing jamb sash and the last vertical tube, at 3' 4-5/8" (1032mm) from the bottom, and at 9' 1-3/32" (2771mm) from the bottom.

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ANCHOR DETAILS

A steel L profile 2-3/8" x 2-3/8" x 5/32" (60mm x 60mm x 4mm) is used as a nail fin for head and jamb frame installation, welded continuously below the profile and screwed against the steel testing buck tube.

The head frame: no. 6 screws M8x10 are distributed at 7-7/8" (200mm) from the corner, at 1' 3-3/4" (400mm) on center.

Jamb frame: no. 9 screws M8x10 are distributed as follow: first screw at 7-7/8" (200mm) from bottom corner, second screw at 1' 7-5/8" (500mm) from bottom corner, third screw at 3' 3-3/8" (1000mm) from bottom corner, fourth screw at 4' 11" (1500mm) from bottom corner, fifth screw at 6' 5" (2000mm) from bottom corner, sixth screw at 5' 5-7/8" (1700mm) from the upper corner, seventh screw at 3' 11-1/4" (1200mm) from the upper corner, eighth screw at 2' 3-1/2" (700mm) from the upper corner, and ninth screw at 7-7/8" (200mm) from upper corner.

Sill frame is screwed directly against the testing buck with no. 6 screws M8X10 distributed as follow: at 7-7/8" (200mm) from the corner, at 1' 3-3/4" (400mm) on center.

TESTING FRAME

Steel tube 3-15/16" x 3-15/16" thk 3/16" (120mm x 120mm thk 5mm).

SUBSTRATE

None.



TEST RESULTS FOR SPECIMEN

#20.013.015

ASTM E283-04: AIR INFILTRATION

SPECIMEN	#20.013.015
TEMP.SPECIMEN (°C / °F)	17.0 / 62.6

PRESSURE		SYSTEM LEAKAGE cfm	TOTAL LEAKAGE cfm	SPECIMEN LEAKAGE cfm	SPECIFIC LEAKAGE cfm/ft²	ALLOWED LEAKAGE cfm/ft²
Pa	psf					
300	6.27	11.6	30.2	18.6	0.180	0.300

NOTE:

No modification to the specimen was made to obtain the results indicated above.
AREA used in the calculation is equal to 102.93 ft².
Pressure is exerted from outside to inside.

The air infiltration test was conducted as indicated in ASTM E283-04.

ASTM E331-00: WATER STATIC PENETRATION TEST

SPECIMEN	#20.013.015
TEMP.SPECIMEN (°C / °F)	20.0 / 68.0
WATER APPLICATION TIME AT ZERO PRESSURE	60 sec

PRESSURE		TEST TIME	RESULTS
Pa	psf		
504	10.53	900	Fail, water leakage from sill

NOTE:

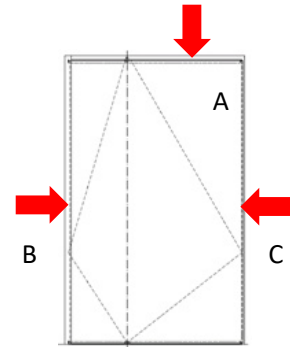
No modification to the specimen was made to obtain the results indicated above.
Pressure is exerted from outside to inside.

The water infiltration test was conducted as indicated in ASTM E331-00. A uniform water spray was applied to the exterior surface of the window at a rate of a minimum of 5.0 gph/sqft.

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TAS 202-94: STATIC LOAD TEST

SPECIMEN	#20.13.015	
TEMP.SPECIMEN (°C / °F)	21.0 / 69.8	
DESIGN PRESSURE (DP)	+ 3352 Pa	+ 70.0 psf
	- 3352 Pa	- 70.0 psf
LOAD TIME	30 sec	
PAUSE TIME	180 sec	



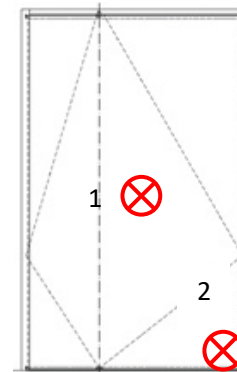
	LOAD			A		B		C	
	% DP	Pa	psf	FLEX in	P.SET in	FLEX in	P.SET in	FLEX in	P.SET in
POS	0.75 DP	2514	52.50	0.063	0.000	0.125	0.000	0.250	0.000
	DP	3352	70.00	0.063	0.000	0.125	0.000	0.250	0.000
	1.5 DP	5027	105.00	0.125	0.000	0.125	0.000	0.313	0.063
NEG	0.75 DP	-2514	-52.50	0.125	0.000	0.000	0.000	0.063	0.063
	DP	-3352	-70.00	0.125	0.000	0.000	0.000	0.125	0.063
	1.5 DP	-5027	-105.00	0.188	0.000	0.063	0.000	0.188	0.125
NOTE: No damage or failures occur during the test. The pressure is exerted from outside to inside. Deflection gauge: span A: 59-1/16" (1500mm), span B: 151-9/16" (3850mm), span C: 151-9/16" (3850mm). Values rounded at 1/16". No tape was used to reduce air leakage. The static load test was conducted as indicated in TAS 202-94, and ASTM E330/E330M-14(2021).									

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TAS 201-94: IMPACT TEST

SPECIMEN	#20.013.015
TEMP.SPECIMEN (°C / °F)	22.0 / 71.6
MISSILE LEVEL	D
WEIGHT	9 lb. (4082gr)
LENGTH	8 ft (2438mm)



SHOT	AREA	x in	y in	VELOCITY ft/s	RESULT
1	Center of sash	48-1/32	77-9/16	49.73	OK
2	Right lower corner	6-11/16	8-21/32	50.04	OK

NOTE:

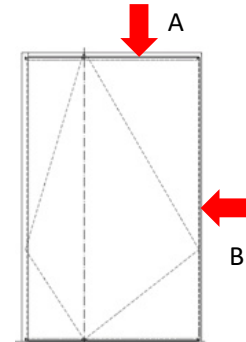
No damage or failures occurred during the test.
Measurements are kept from the left corner, bottom of the glass.

The impact test was conducted as indicated in TAS 201-94, ASTM E1886-19, and ASTM E1996-20.

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TAS 203-94: CYCLIC LOAD TEST

SPECIMEN	#20.013.015	
TEMP.SPECIMEN (°C / °F)	20.0 / 68.0	
DESIGN PRESSURE (DP)	+ 3352 Pa	+ 70.0 psf
	- 3352 Pa	- 70.0 psf
LOAD TIME	1 sec	



CYCLES	LOAD RANGE			A		B	
	%	Pa	psf	FLEX in	DEF in	FLEX in	DEF in
3500	50 to 20	1676 to 670	35.0 to 14.0	0.000	0.000	0.375	0.000
300	60 to 0	2011 to 0	42.0 to 0.0	0.000	0.000	0.375	0.000
600	80 to 50	2681 to 1676	56.0 to 35.0	0.063	0.000	0.375	0.000
100	100 to 30	3352 to 1005	70.0 to 21.0	0.125	0.000	0.438	0.000
50	100 to 30	-3352 to -1005	-70.0 to -21.0	0.188	0.000	0.313	0.000
1050	80 to 50	-2681 to -1676	-56.0 to -35.0	0.125	0.000	0.188	0.000
50	60 to 0	-2011 to 0	-42.0 to 0.0	0.063	0.000	0.125	0.000
3550	50 to 20	-1676 to -670	-35.0 to -14.0	0.063	0.000	0.063	0.000
NOTE: No damage or failures occurred during the test. Pressure is exerted from outside to inside. Deflection gauge: span A: 59-1/16" (1500mm), span B: 151-9/16" (3850mm). Values rounded at 1/16". No tape was used to reduce air leakage. The static load test was conducted as indicated in TAS 203-94, ASTM E1886-19, and ASTM E1996-20.							

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ASTM F588-14: FORCE ENTRY TEST

SPECIMEN	#20.013.015
TEMP.SPECIMEN (°C / °F)	21.0 / 69.8
GRADE PERFORMANCE	10
TYPE	C

TEST	TIME sec	RESULTS
DISASSEMBLY TEST	300	Pass
LOCKING MANIPULATION	300	Pass
SASH MANIPULATION	300	Pass
NOTE: No damage or failures occur during the test. For testing purposes were used: a putty knife, a head screwdriver, slot-type pliers and a 50cm of black annealed 16gage wire. The force entry test was conducted as indicated in ASTM F588-14.		

TEST	TIME sec	LOAD N	APPL. POINT	RESULTS
PULL TEST 1 – C1	60	L ₁ =667 L ₂ =333	Sash	Pass
PULL TEST 2 – C2	60		Sash	Pass
PULL TEST 3 – C3	60		Sash	Pass
PULL TEST 4 – C4	60		Sash	Pass
PULL TEST 5 – C5	60		Sash	Pass
NOTE: The pull test was made using steel cable and force gages.				
The force entry test was conducted as indicated in ASTM F588-14.				

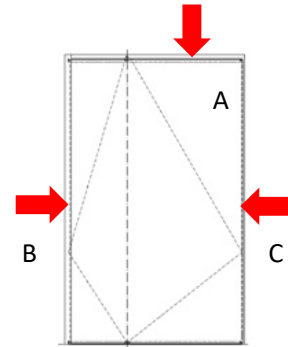
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TEST RESULTS FOR SPECIMEN

#20.013.016

TAS 202-94: STATIC LOAD TEST

SPECIMEN	#20.13.016	
TEMP.SPECIMEN (°C / °F)	21.0 / 69.8	
DESIGN PRESSURE (DP)	+ 3352 Pa	+ 70.0 psf
	- 3352 Pa	- 70.0 psf
LOAD TIME	30 sec	
PAUSE TIME	180 sec	



	LOAD			A		B		C	
	% DP	Pa	psf	FLEX in	P.SET in	FLEX in	P.SET in	FLEX in	P.SET in
POS	0.75 DP	2514	52.50	0.063	0.000	0.250	0.000	0.438	0.063
	DP	3352	70.00	0.125	0.000	0.250	0.000	0.438	0.000
	1.5 DP	5027	105.00	0.125	0.000	0.250	0.000	0.563	0.063
NEG	0.75 DP	-2514	-52.50	0.125	0.000	0.063	0.000	0.250	0.063
	DP	-3352	-70.00	0.188	0.000	0.125	0.000	0.250	0.000
	1.5 DP	-5027	-105.00	0.188	0.000	0.125	0.000	0.438	0.125

NOTE:

No damage or failures occur during the test.
The pressure is exerted from outside to inside.
Deflection gauge: span A: 59-1/16" (1500mm), span B: 151-9/16" (3850mm), span C: 151-9/16" (3850mm).
Values rounded at 1/16"
No tape was used to reduce air leakage.

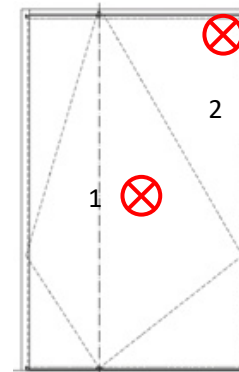
The static load test was conducted as indicated in TAS 202-94, and ASTM E330/E330M-14(2021).

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TAS 201-94: IMPACT TEST

SPECIMEN	#20.013.016
TEMP.SPECIMEN (°C / °F)	22.0 / 71.6
MISSILE LEVEL	D
WEIGHT	9 lb. (4082gr)
LENGTH	8 ft (2438mm)

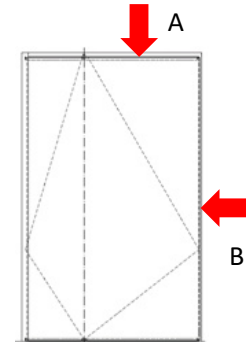


SHOT	AREA	x in	y in	VELOCITY ft/s	RESULT
1	Center of sash	48-1/32	77-9/16	49.61	OK
2	Right upper corner	6-11/16	146-1/16	49.73	OK
NOTE: No damage or failures occurred during the test. Measurements are kept from the left corner, bottom of the glass. The impact test was conducted as indicated in TAS 201-94, ASTM E1886-19, and ASTM E1996-20.					

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TAS 203-94: CYCLIC LOAD TEST

SPECIMEN	#20.013.016	
TEMP.SPECIMEN (°C / °F)	21.0 / 69.8	
DESIGN PRESSURE (DP)	+ 3352 Pa	+ 70.0 psf
	- 3352 Pa	- 70.0 psf
LOAD TIME	1 sec	



CYCLES	LOAD RANGE			A		B	
	%	Pa	psf	FLEX in	DEF in	FLEX in	DEF in
3500	50 to 20	1676 to 670	35.0 to 14.0	0.063	0.000	0.375	0.000
300	60 to 0	2011 to 0	42.0 to 0.0	0.063	0.000	0.375	0.000
600	80 to 50	2681 to 1676	56.0 to 35.0	0.063	0.000	0.438	0.000
100	100 to 30	3352 to 1005	70.0 to 21.0	0.063	0.000	0.438	0.000
50	100 to 30	-3352 to -1005	-70.0 to -21.0	0.188	0.000	0.313	0.000
1050	80 to 50	-2681 to -1676	-56.0 to -35.0	0.125	0.000	0.250	0.000
50	60 to 0	-2011 to 0	-42.0 to 0.0	0.063	0.000	0.125	0.000
3550	50 to 20	-1676 to -670	-35.0 to -14.0	0.063	0.000	0.125	0.000
NOTE: No damage or failures occurred during the test. Pressure is exerted from outside to inside. Deflection gauge: span A: 59-1/16" (1500mm), span B: 151-9/16" (3850mm). Values rounded at 1/16". No tape was used to reduce air leakage. The static load test was conducted as indicated in TAS 203-94, ASTM E1886-19, and ASTM E1996-20.							

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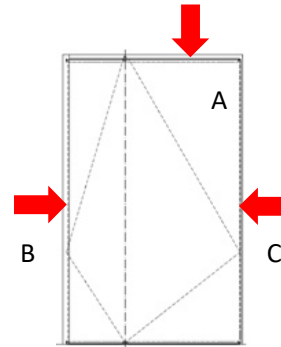


TEST RESULTS FOR SPECIMEN

#20.013.017

TAS 202-94: STATIC LOAD TEST

SPECIMEN	#20.13.017	
TEMP.SPECIMEN (°C / °F)	21.0 / 69.8	
DESIGN PRESSURE (DP)	+ 3352 Pa	+ 70.0 psf
	- 3352 Pa	- 70.0 psf
LOAD TIME	30 sec	
PAUSE TIME	180 sec	



	LOAD			A		B		C	
	% DP	Pa	psf	FLEX in	P.SET in	FLEX in	P.SET in	FLEX in	P.SET in
POS	0.75 DP	2514	52.50	0.063	0.000	0.188	0.000	0.375	0.000
	DP	3352	70.00	0.063	0.000	0.250	0.000	0.438	0.063
	1.5 DP	5027	105.00	0.125	0.000	0.250	0.000	0.500	0.063
NEG	0.75 DP	-2514	-52.50	0.063	0.000	0.063	0.000	0.125	0.063
	DP	-3352	-70.00	0.125	0.000	0.063	0.000	0.188	0.000
	1.5 DP	-5027	-105.00	0.188	0.000	0.125	0.000	0.375	0.063

NOTE:

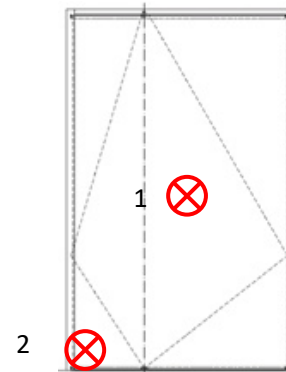
No damage or failures occur during the test.
The pressure is exerted from outside to inside.
Deflection gauge: span A: 59-1/16" (1500mm), span B: 151-9/16" (3850mm), span C: 151-9/16" (3850mm).
Values rounded at 1/16".
No tape was used to reduce air leakage.

The static load test was conducted as indicated in TAS 202-94, and ASTM E330/E330M-14(2021).

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TAS 201-94: IMPACT TEST

SPECIMEN	#20.013.017
TEMP.SPECIMEN (°C / °F)	20.0 / 68.0
MISSILE LEVEL	D
WEIGHT	9 lb. (4082gr)
LENGTH	8 ft (2438mm)



SHOT	AREA	x in	y in	VELOCITY ft/s	RESULT
1	Center of sash	48-1/32	77-9/16	50.50	OK
2	Left lower corner	6-3/4	8-21/32	49.81	OK

NOTE:

No damage or failures occurred during the test.
Measurements are kept from the left corner, bottom of the glass.

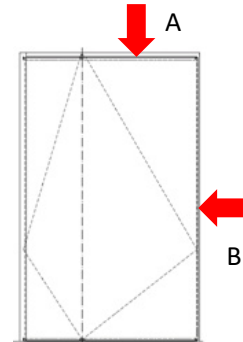
The impact test was conducted as indicated in TAS 201-94, ASTM E1886-19, and ASTM E1996-20.

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TAS 203-94: CYCLIC LOAD TEST

SPECIMEN	#20.013.017	
TEMP.SPECIMEN (°C / °F)	20.0 / 68.0	
DESIGN PRESSURE (DP)	+ 3352 Pa	+ 70.0 psf
	- 3352 Pa	- 70.0 psf
LOAD TIME	1 sec	



CYCLES	LOAD RANGE			A		B	
	%	Pa	psf	FLEX in	DEF in	FLEX in	DEF in
3500	50 to 20	1676 to 670	35.0 to 14.0	0.063	0.000	0.375	0.000
300	60 to 0	2011 to 0	42.0 to 0.0	0.063	0.000	0.375	0.000
600	80 to 50	2681 to 1676	56.0 to 35.0	0.063	0.000	0.438	0.000
100	100 to 30	3352 to 1005	70.0 to 21.0	0.063	0.000	0.438	0.063
50	100 to 30	-3352 to -1005	-70.0 to -21.0	0.188	0.000	0.375	0.063
1050	80 to 50	-2681 to -1676	-56.0 to -35.0	0.125	0.000	0.25	0.000
50	60 to 0	-2011 to 0	-42.0 to 0.0	0.063	0.000	0.125	0.000
3550	50 to 20	-1676 to -670	-35.0 to -14.0	0.063	0.000	0.125	0.000
NOTE: No damage or failures occurred during the test. Pressure is exerted from outside to inside. Deflection gauge: span A: 59-1/16" (1500mm), span B: 151-9/16" (3850mm). Values rounded at 1/16". No tape was used to reduce air leakage. The static load test was conducted as indicated in TAS 203-94, ASTM E1886-19, and ASTM E1996-20.							

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SUMMARY OF ASTM E283-04, ASTM E331-00, TAS 202-94, TAS 201-94, TAS 203-94 & ASTM F588-14 TEST REPORT

rendered to:

Davinci Design Windows, LLC

214 Benton Street, Stratford CT 06615

United States of America

SERIES/MODEL: Solid pivot door

PRODUCT TYPE: Pivot door

AIR LEAKAGE [ASTM E283-04]: Specimen 1 [#20.013.015] was tested following procedure **ASTM E283-04**. Specimens 1 [#20.013.015] successfully passed the air infiltration test criteria for the **Florida Building Code**.

WATER PENETRATION [ASTM E331-00]: Specimen 1 [#20.013.015] was tested following procedure **ASTM E331-00**. Specimen 1 [#20.013.015] did not pass the water penetration test criteria for the **Florida Building Code**.

STATIC LOAD [TAS 202-94]: Specimen 1 [#20.013.015], specimen 2 [#20.013.016], and specimen 3 [#20.013.017] were tested following procedure **TAS 202-94**. Specimen 1 [#20.013.015], specimen 2 [#20.013.016], and specimen 3 [#20.013.017] successfully passed the static load test criteria for the **Florida Building Code**.

IMPACT TEST [TAS 201-94]: Specimen 1 [#20.013.015], specimen 2 [#20.013.016], and specimen 3 [#20.013.017] were tested following procedure **TAS 201-94**. Specimen 1 [#20.013.015], specimen 2 [#20.013.016], and specimen 3 [#20.013.017] successfully passed the large missile impact test criteria for the **Florida Building Code**.

CYCLIC LOAD [TAS 203-94]: Specimen 1 [#20.013.015], specimen 2 [#20.013.016], and specimen 3 [#20.013.017] were tested following procedure **TAS 203-94**. Specimen 1 [#20.013.015], specimen 2 [#20.013.016], and specimen 3 [#20.013.017] successfully passed the cyclic load test criteria for **Florida Building Code**.

FORCED ENTRY [ASTM F588-14]: Specimen 1 [#20.013.015] was tested following procedure **ASTM F588-14**. Specimen 1 [#20.013.015] successfully passed the forced entry test criteria for the **Florida Building Code**.

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List of Observer:

<u>Name</u>	<u>Company</u>
Andrea Turcato	Blackwater Testing srl
Edoardo Onisto	Blackwater Testing srl
Roberto Archila	Blackwater Testing srl
Mauro Gerardi	Ercole srl

Test/s was/were performed by:

X 
ANDREA TURCATO
27.08.2026 11:57:21
GMT+02:00
Inq. Andrea Turcato
Director of laboratory

Representative samples of the test specimen and a copy of this report will be retained by Blackwater Testing srl for a period of ten years from the original test date. This report is the exclusive property of the client so named herein and is applicable to the sample tested. Results obtained are tested values and do not constitute an opinion or endorsement by this laboratory.

Blackwater Testing srl in the declarations of compliance will not consider the uncertainty of measurement.

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For **BLACKWATER TESTING** srl:



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Digitally signed by roberto archila
Date: 2026.08.31 22:10:21-04'00'

X 
PE Roberto Archila
Lead Engineer

X 
ANDREA TURCATO
27.08.2026 11:57:21
GMT+02:00
Inq. Andrea Turcato
Director of laboratory

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Attachment

<u>Appendix</u>	<u>Description</u>	<u>Page</u>
A	Drawings	26
B	Datasheets	47
C	Bill of material	62
D	Die drawings	64
E	Photo	75

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APPENDIX A

Drawings

rendered to:

Davinci Design Windows, LLC

SERIES/MODEL: Solid pivot door

PRODUCT TYPE: Pivot door

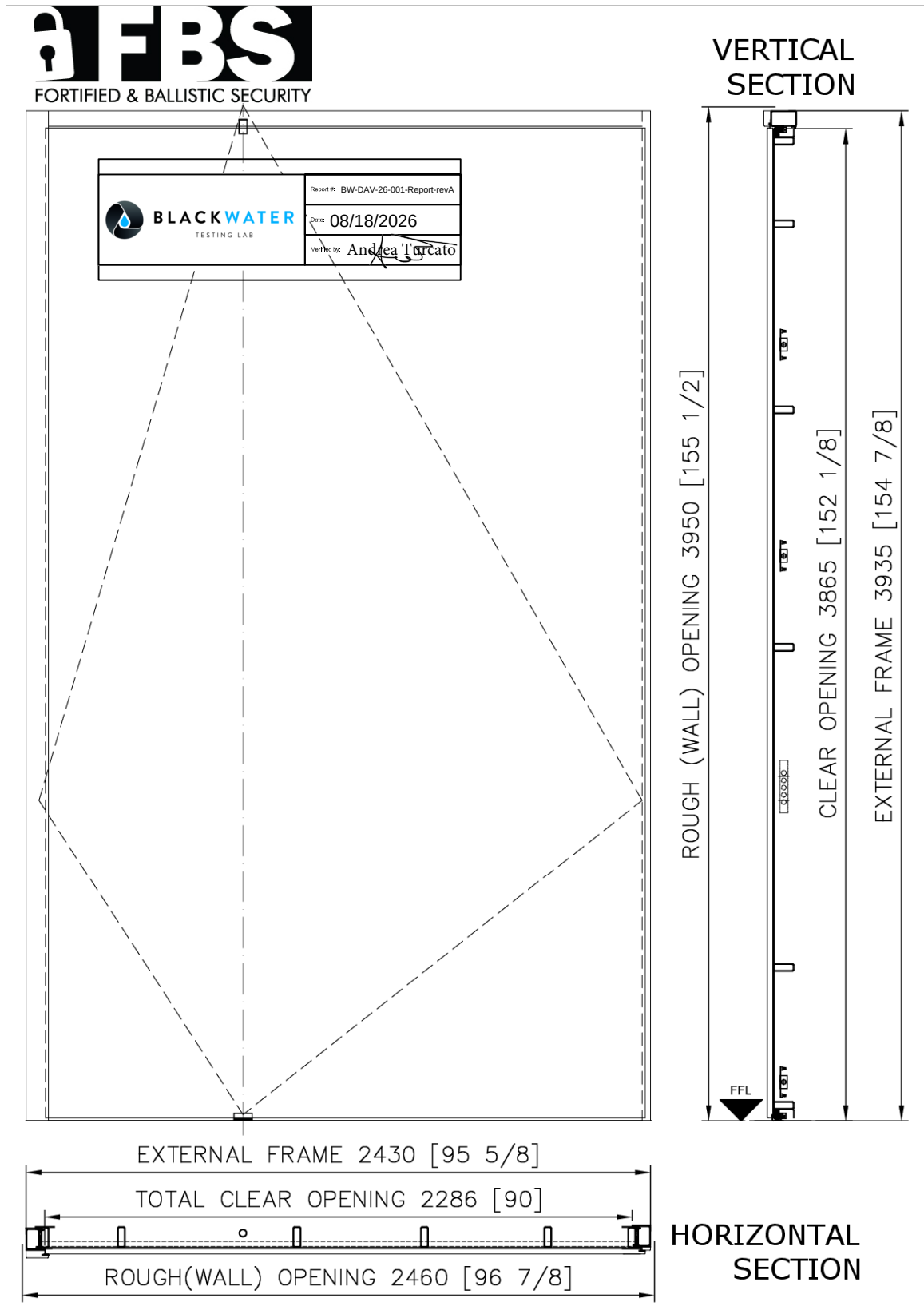
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Test Date: 04/01/2021

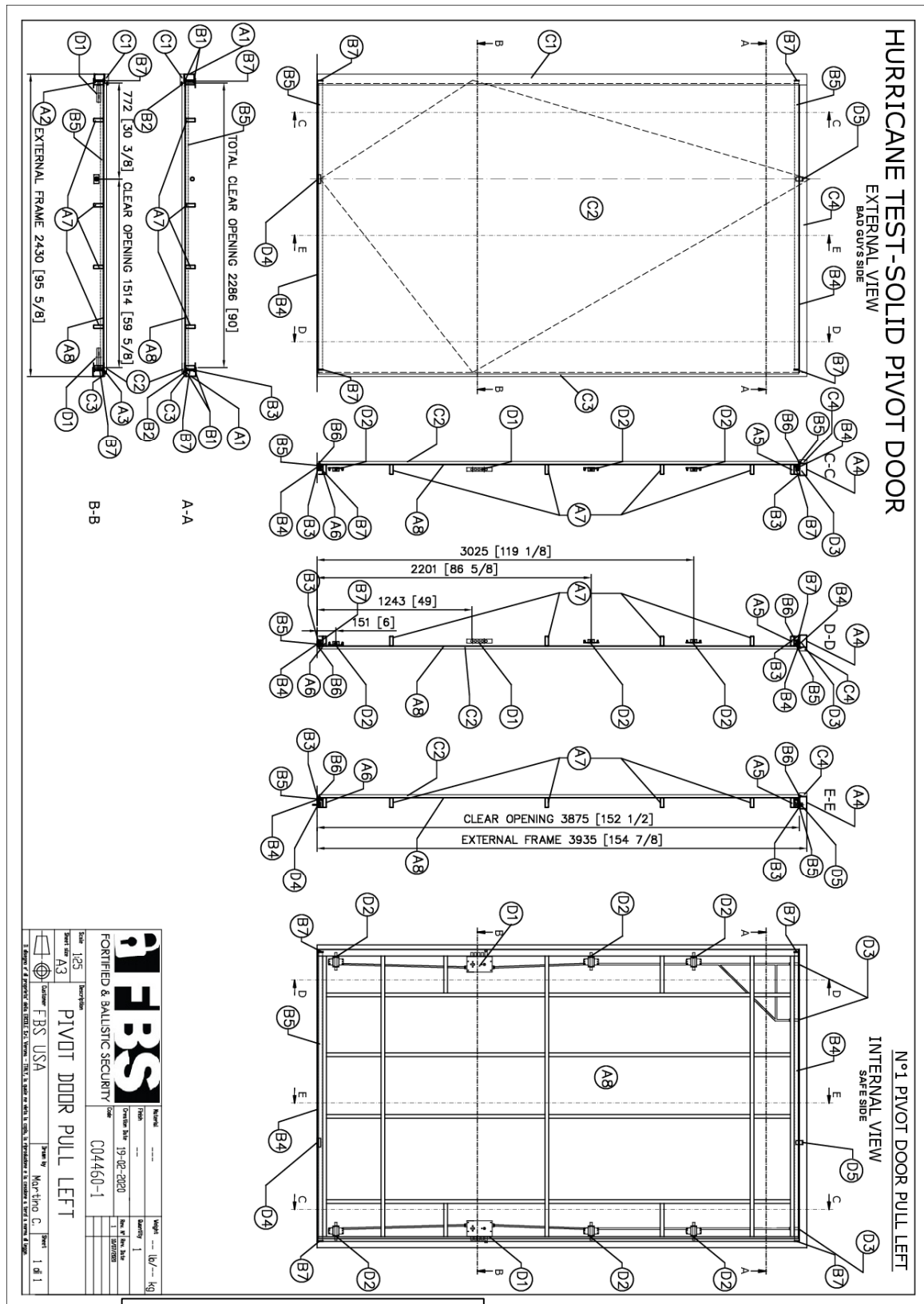
Report Date: 08/18/2026

Detention End Date: 08/18/2036

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A — PROFILE (CONSTRUCTION ELEMENTS)

- | | | |
|----|--|--|
| A1 | | STRUCTURAL "L" STEEL PROFILE —
SIDES FRAME |
| A2 | | STRUCTURAL "T" STEEL PROFILE —
SIDE LEAF |
| A3 | | STRUCTURAL "Z" STEEL PROFILE —
SIDE LEAF |
| A4 | | STRUCTURAL "O" STEEL PROFILE —
UPPER FRAME PART |
| A5 | | STRUCTURAL "H" STEEL PROFILE —
UPPER LEAF PART |
| A6 | | STRUCTURAL "H" STEEL PROFILE —
LOWER LEAF PART |
| A7 | | REINFORCEMENT STRUCTURAL "O"
STEEL PROFILE —
LEAF PART |
| A8 | | SHEET STEEL —
LEAF PART |

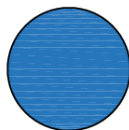
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	Date: 08/18/2026
	Verified by: <u>Andrea Turcato</u>

— 1 —

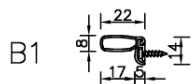
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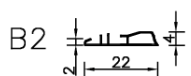
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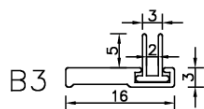
B — GASKET (ELEMENTS FOR WATER AND AIR INFILTRATION)



B1 1° AND 2° GASKET FOR WATER INFILTRATION — SIDES PART



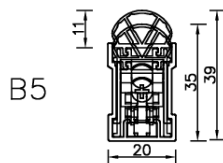
B2 3° GASKET FOR WATER INFILTRATION — SIDES PART



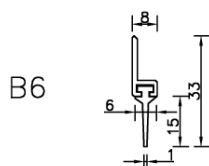
B3 4° GASKET FOR THE AIR INFILTRATION — SIDES, LOWER AND UPPER PART



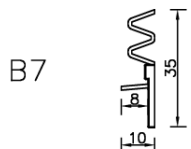
B4 THERSHOLD FOR AIR AND WATER INFILTRATION — LOWER AND UPPER PART



B5 DROP DOWN SEAL FOR AIR AND WATER INFILTRATION — LOWER AND UPPER PART



B6 GASKET FOR AIR AND WATER INFILTRATION — LOWER AND UPPER PART



B7 GASKET FOR AIR AND WATER INFILTRATION — LOWER AND UPPER PART ON THE CORNERS

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C – PROFILE (SUPPORTS, PANELS, TRIMS)



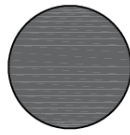
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— 3 —

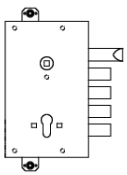
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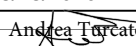


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D — MECHANIC ELEMENTS (LOCK, BEARINGS, ETC.)

- D1  LOCK SYSTEM —
SIDES PART
- D2  MULTIPOINT LOCK SYSTEM —
SIDES PART
- D3  MULTIPOINT LOCK SYSTEM —
UPPER PART
- D4  BEARING SYSTEM —
LOWER PART
- D5  BEARING SYSTEM —
UPPER PART
- D6  CONNECTION AUCTIONS SYSTEM —
LEAF PART

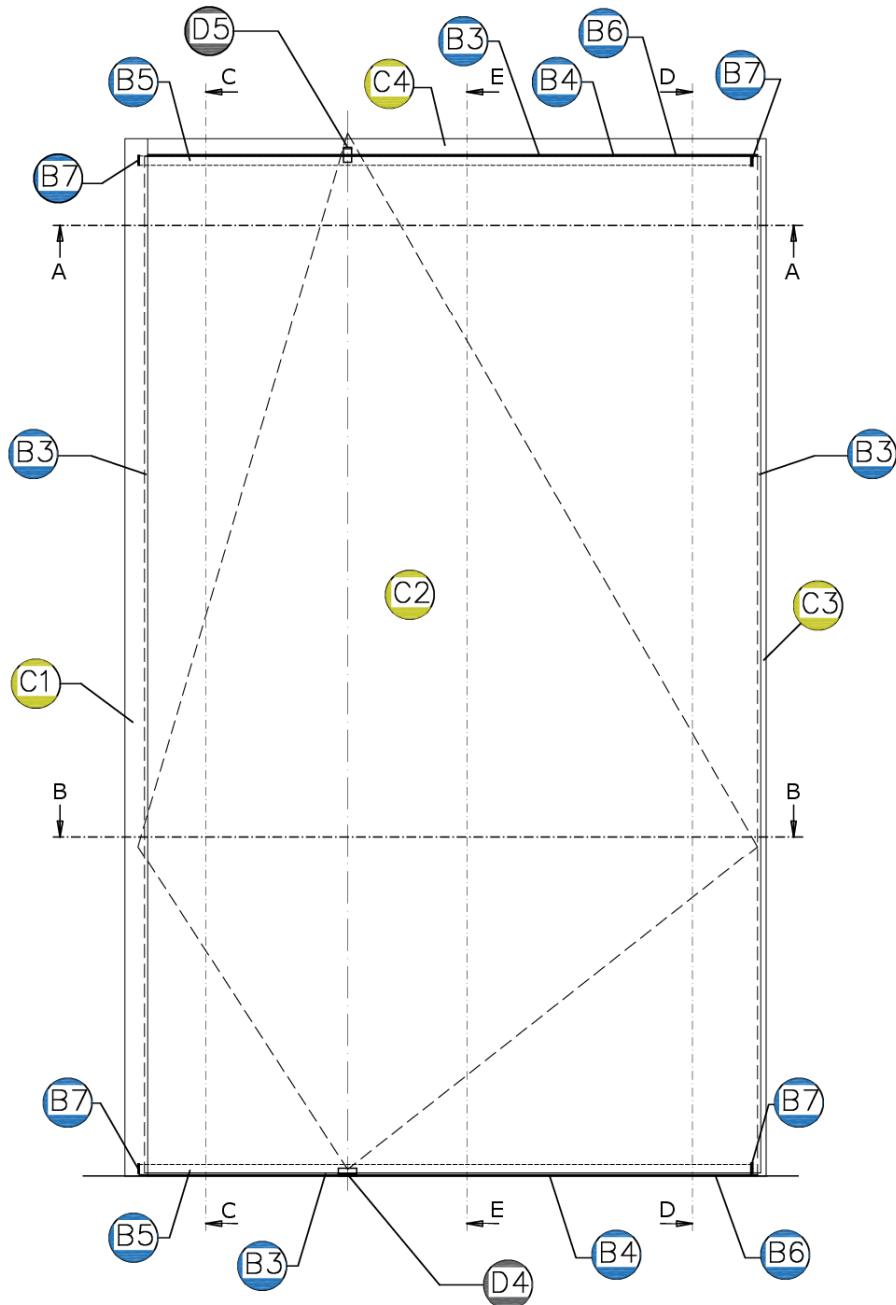
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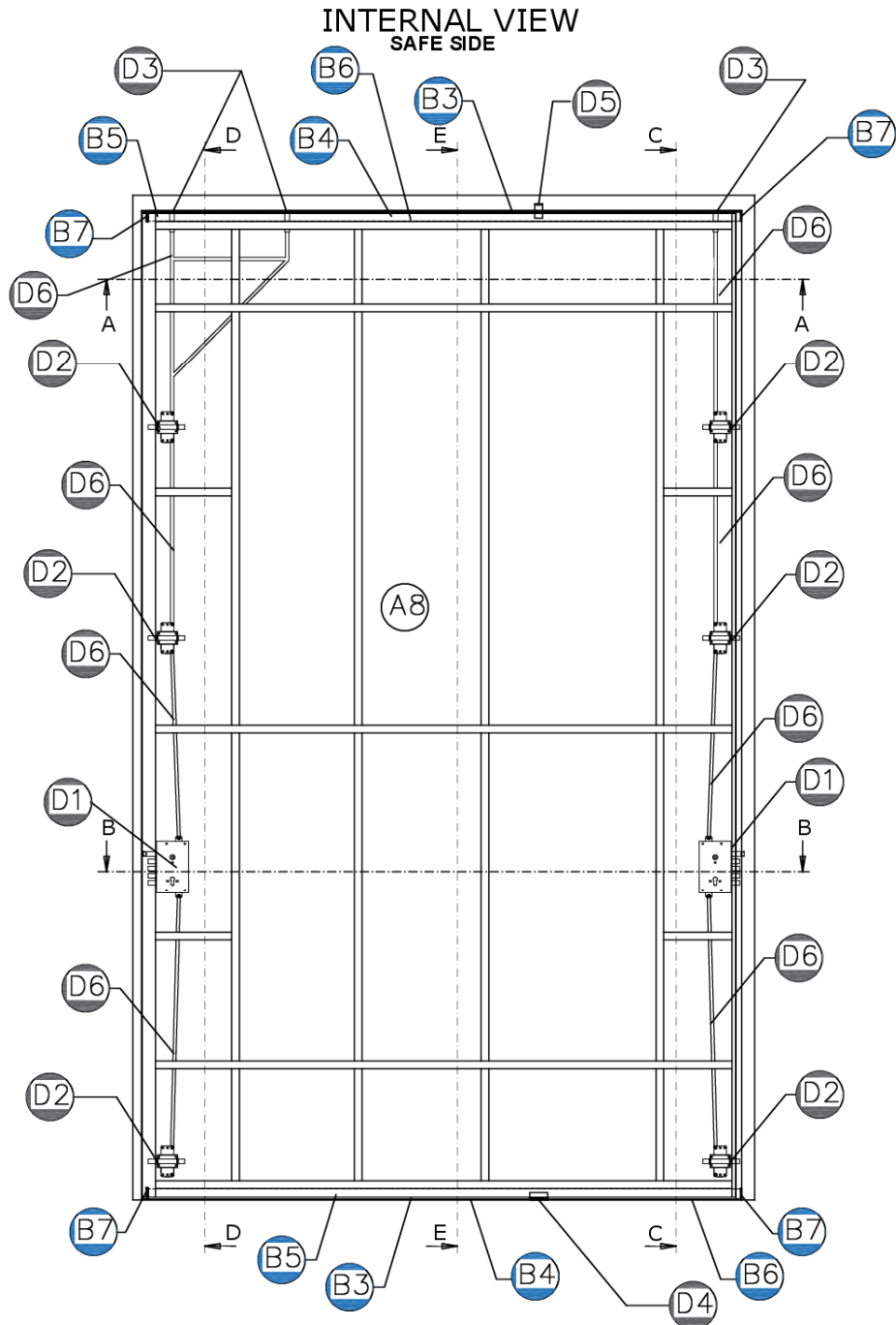
EXTERNAL VIEW
BAD GUYS SIDE



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	Date: 08/18/2026
	Verified by: <u>Andrea Torcato</u>

—5—

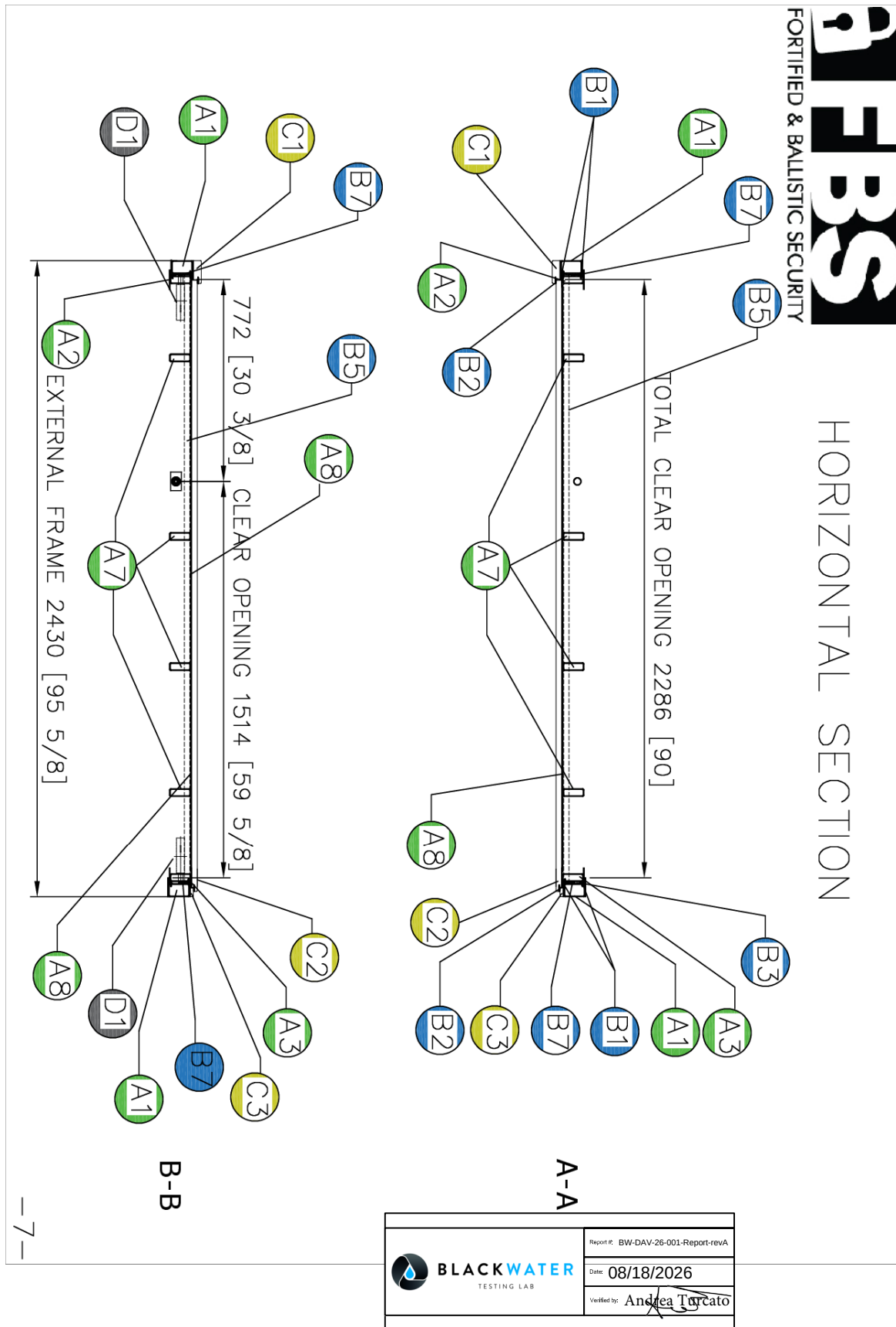
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— 6 —

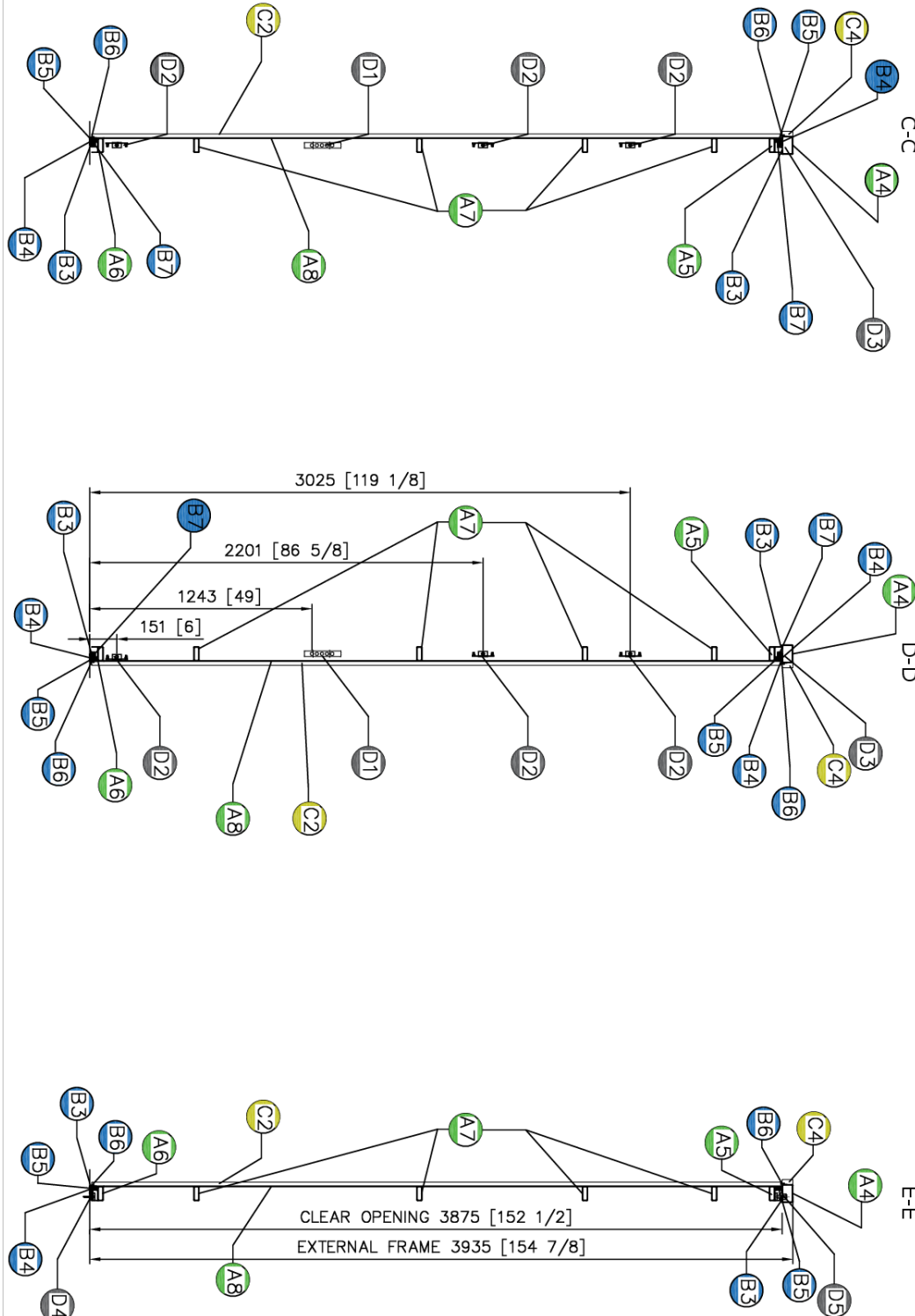
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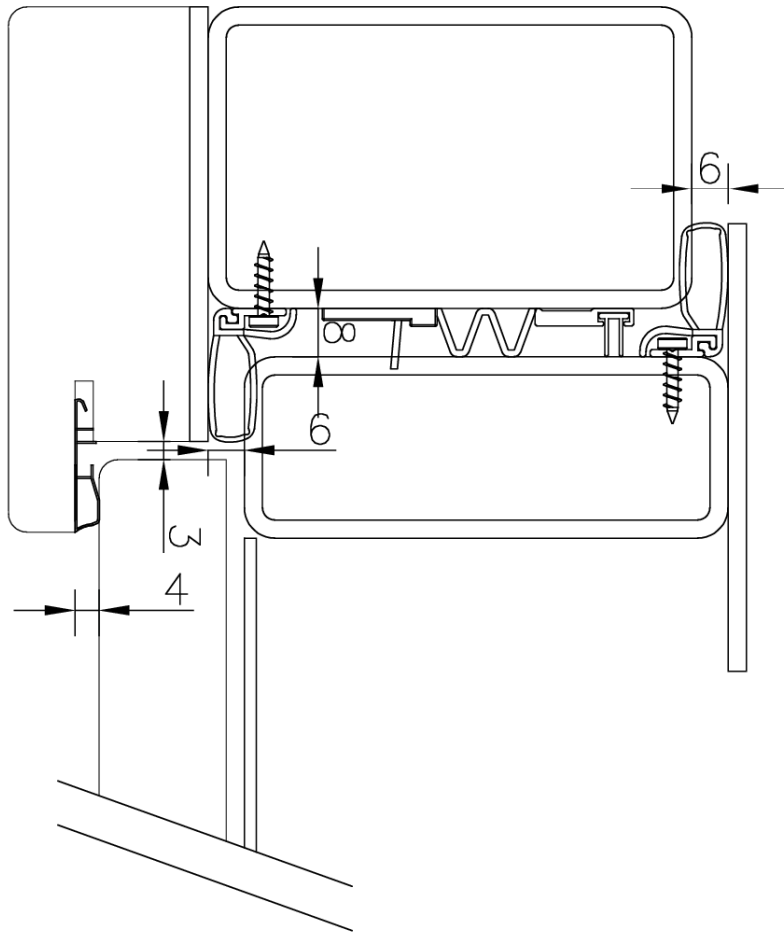
VERTICAL SECTION



- 8 -

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ASSEMBLY DETAILS "L" + "T" PROFILE

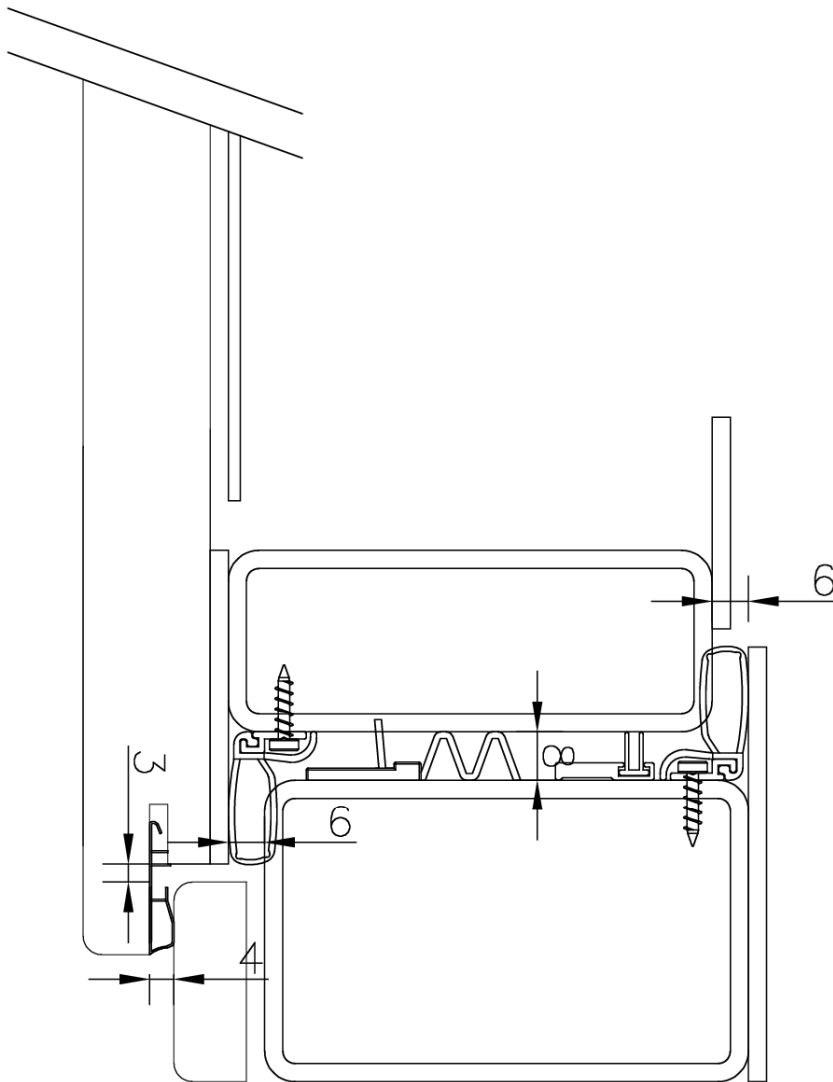
—15—

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ASSEMBLY DETAILS "L" + "Z" PROFILE



— 16 —

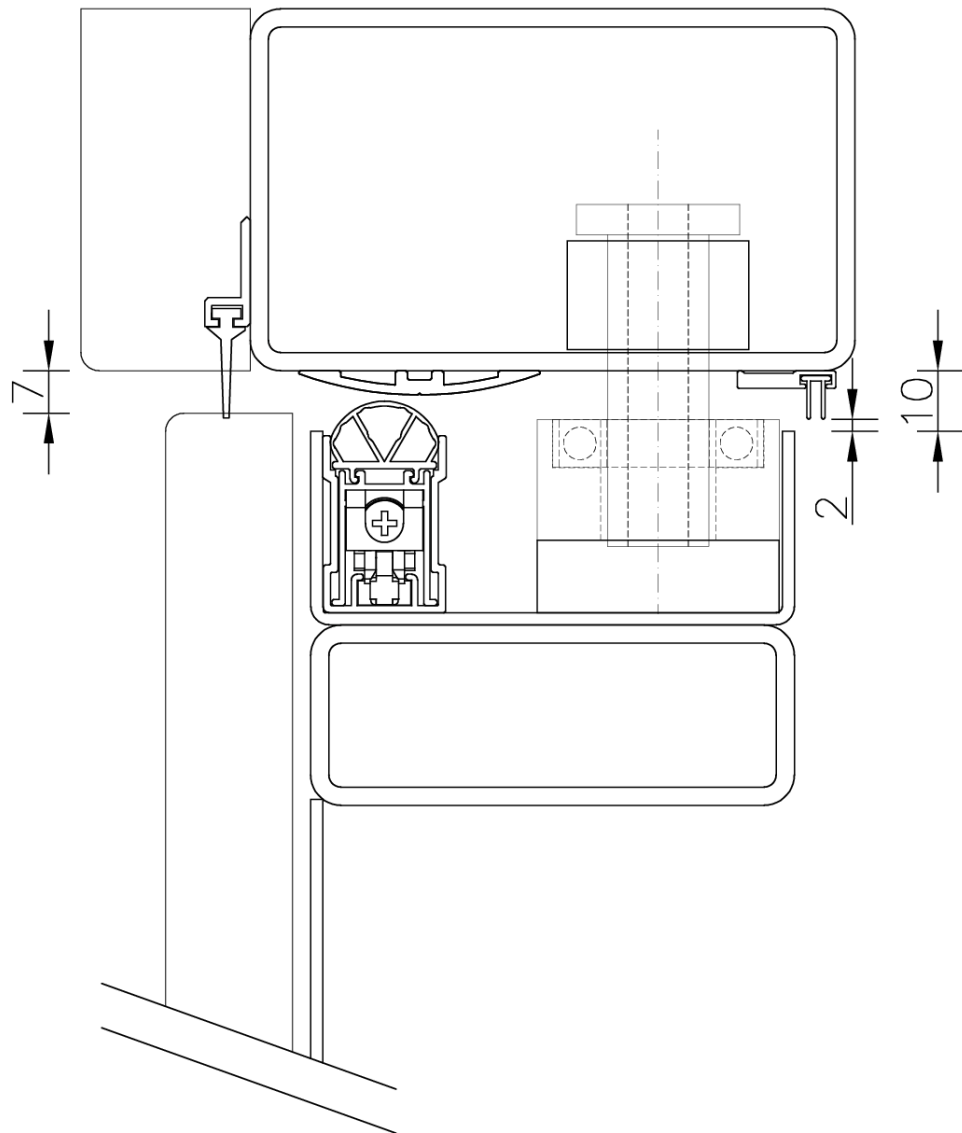
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ASSEMBLY DETAILS UPPER PART "H" + "O" PROFILE



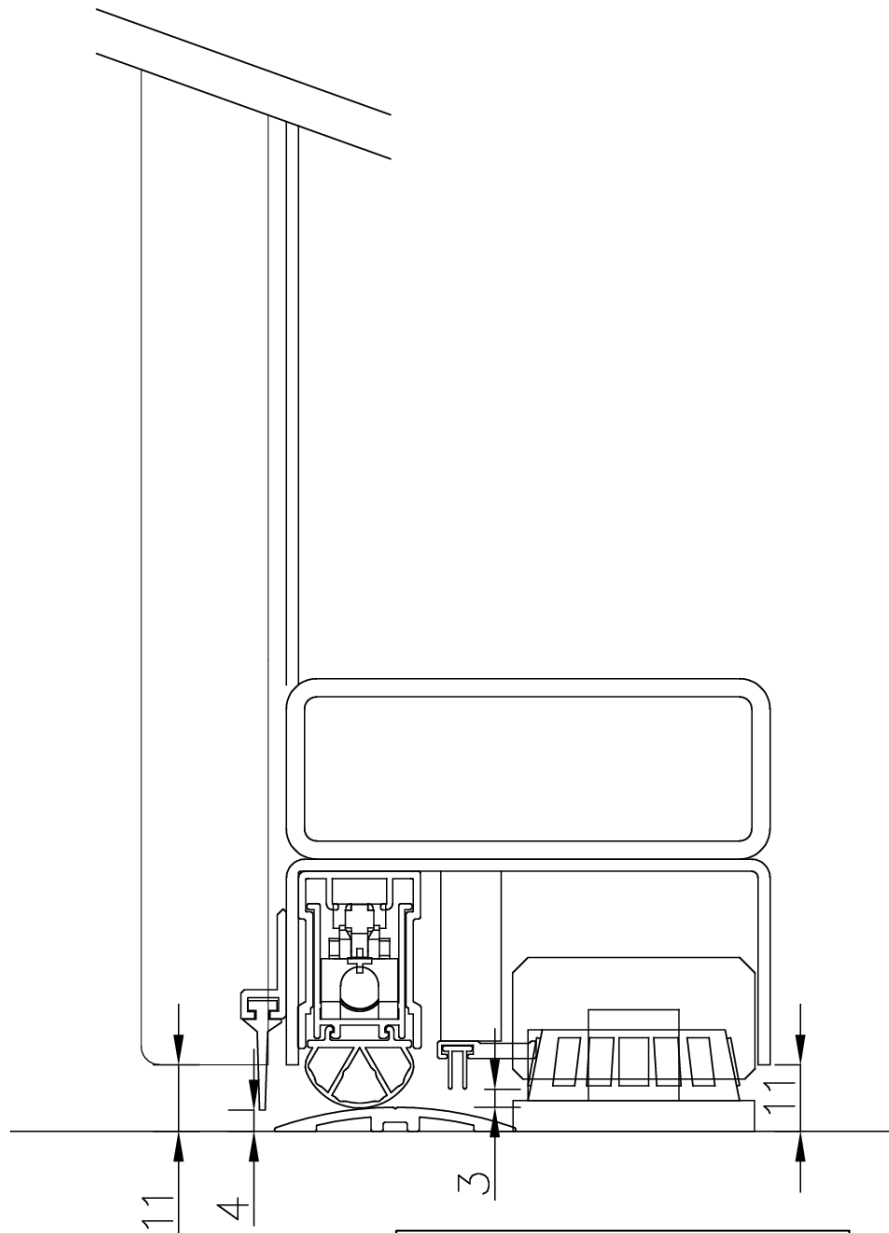
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— 17 —

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ASSEMBLY DETAILS LOWER PART "H" + "FLOOR"



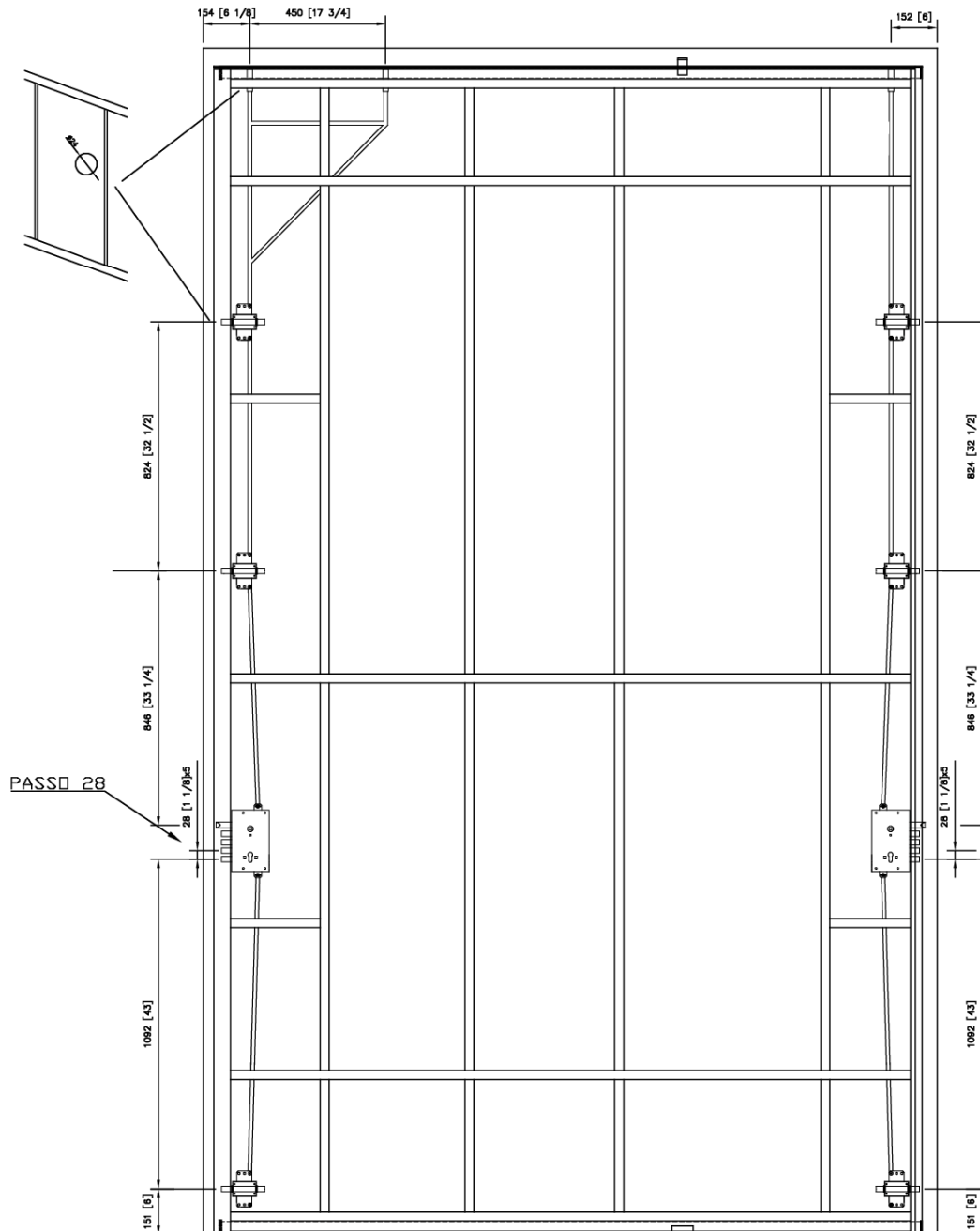
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—18—

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**INTERNAL VIEW
SAFE SIDE**

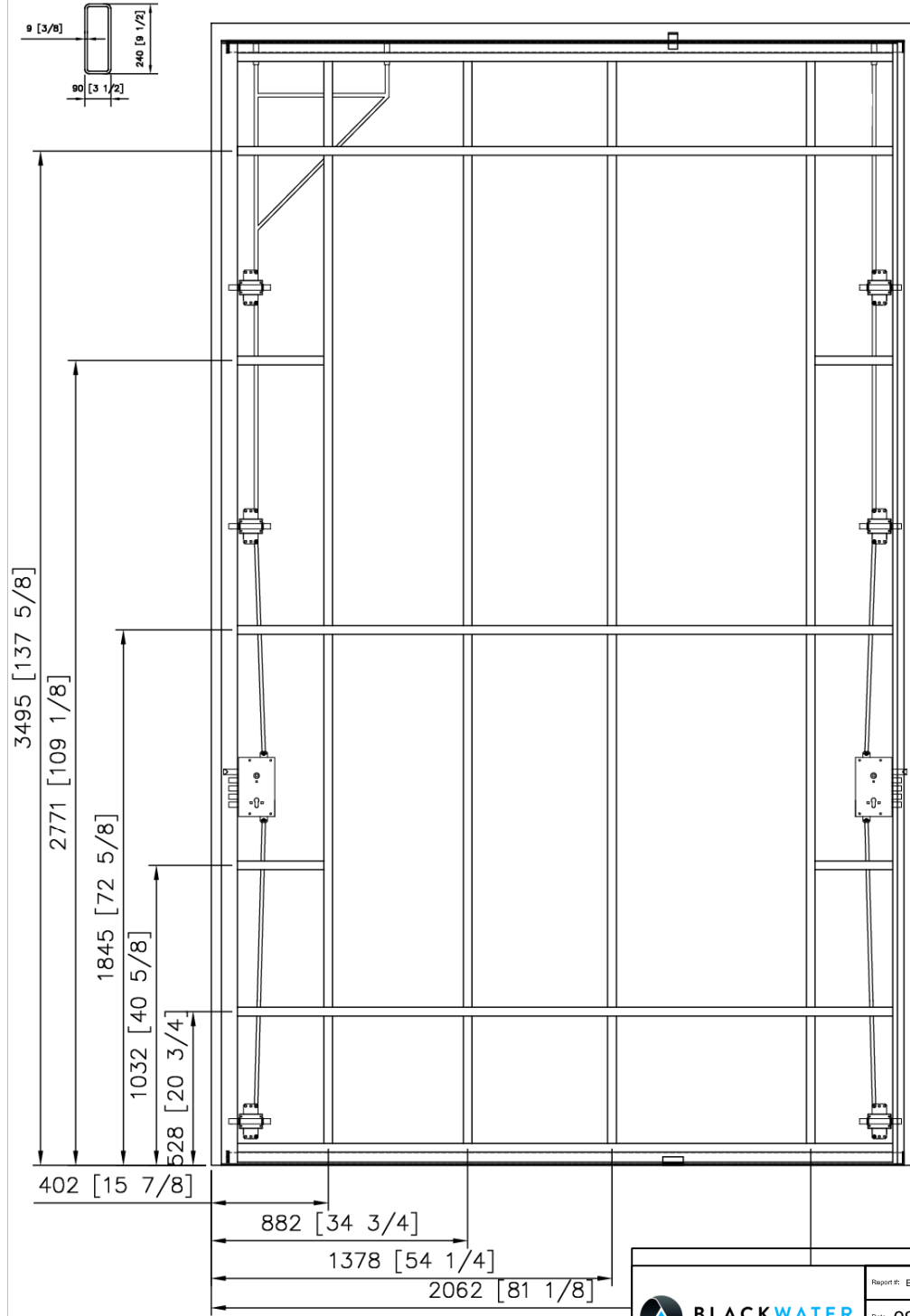


 BLACKWATER TESTING LAB	Report #: BW-DAV-26-001-Report-revA
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INTERNAL VIEW
SAFE SIDE

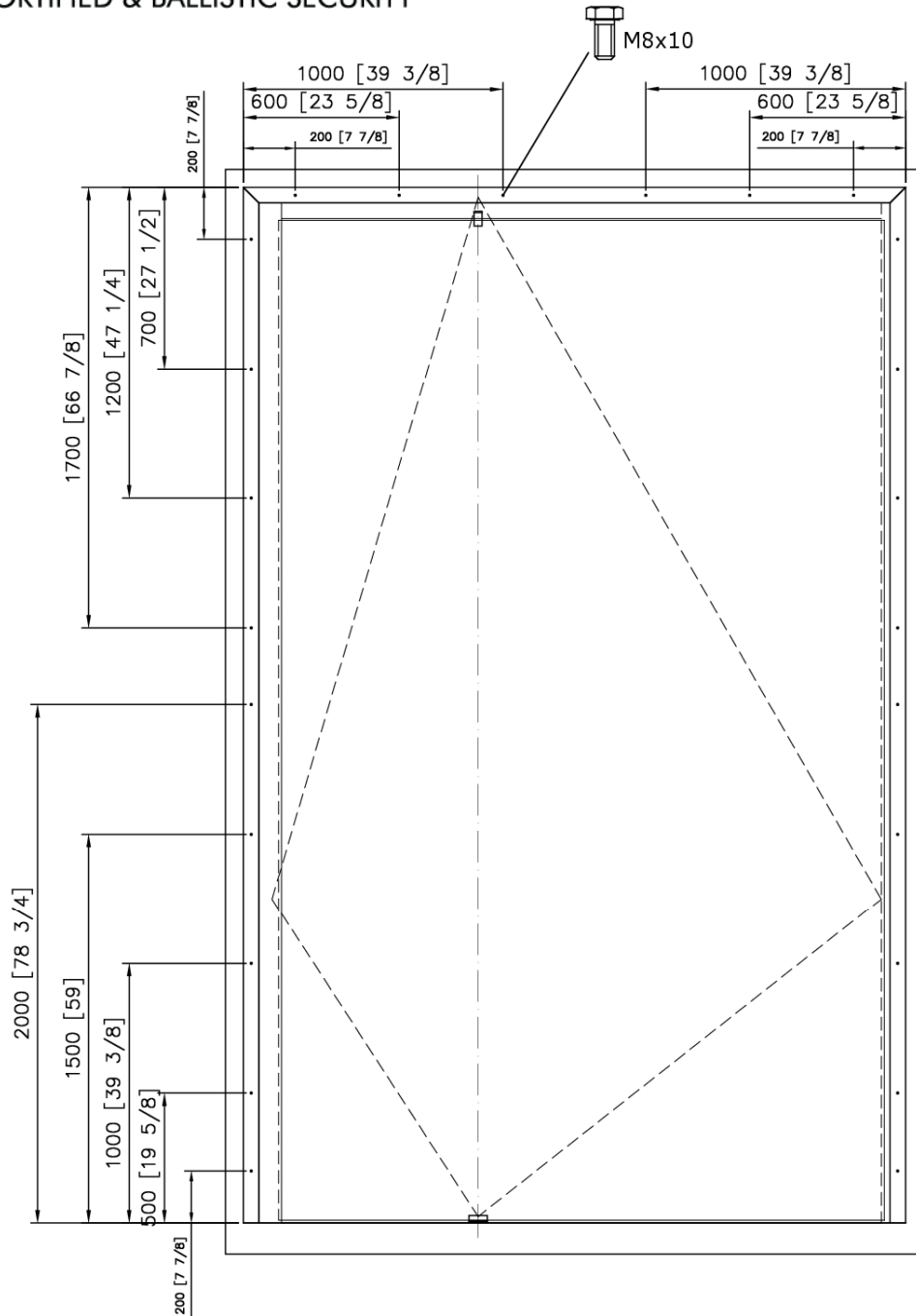


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FRONT INSTALLATION VIEW

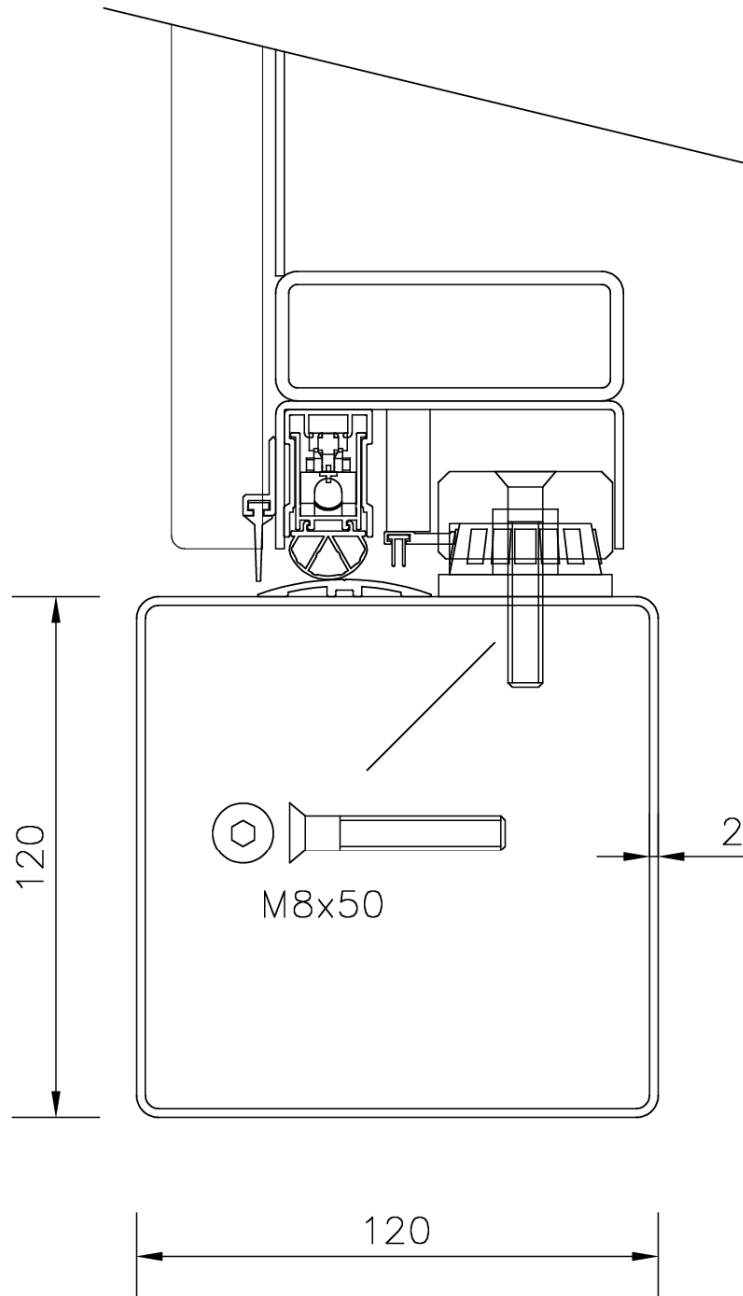


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TEST INTALLATION SYSTEM SILL PART

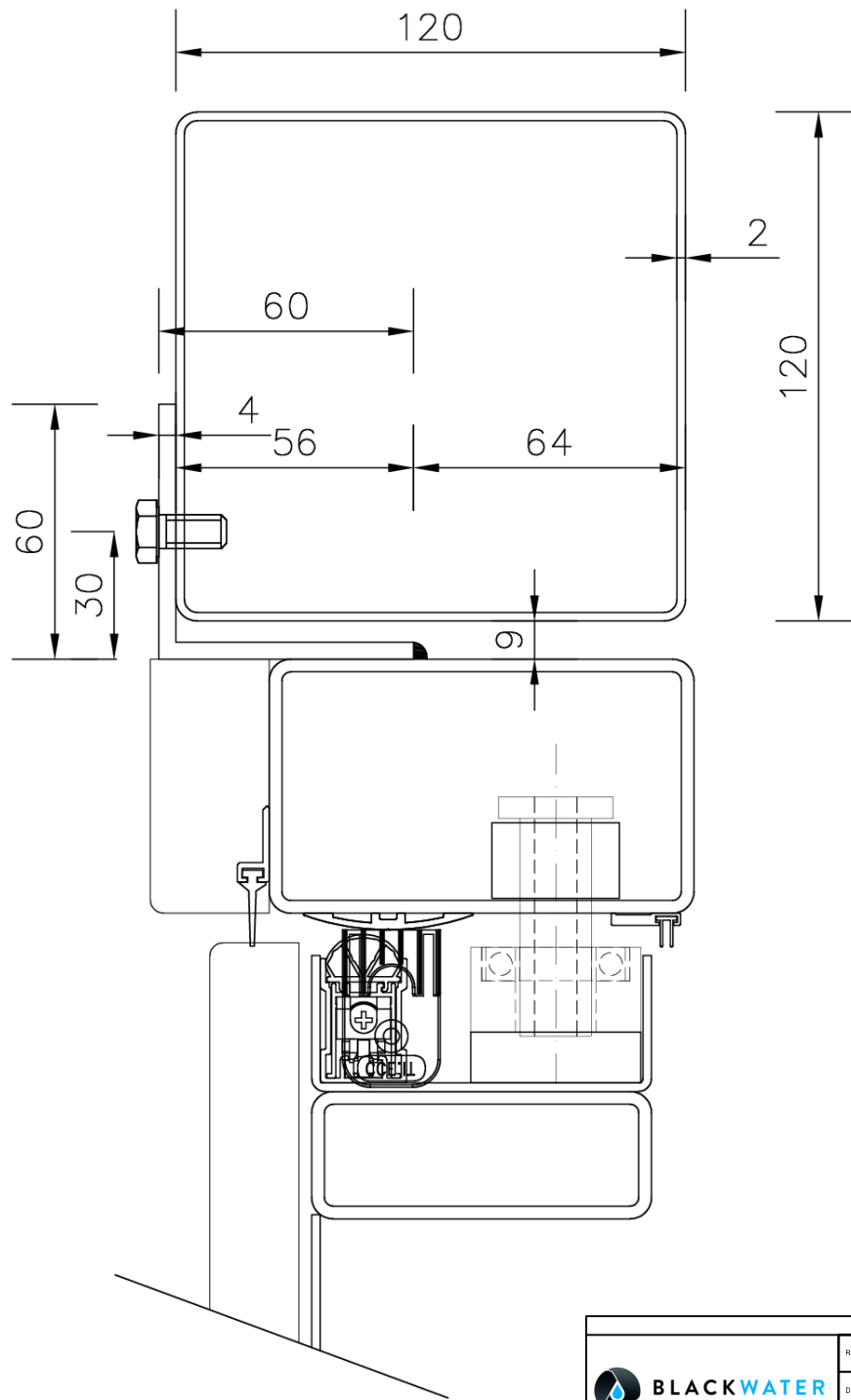


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	Verified by: Andrea Tarcato

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TEST INTALLATION SYSTEM HEAD PART



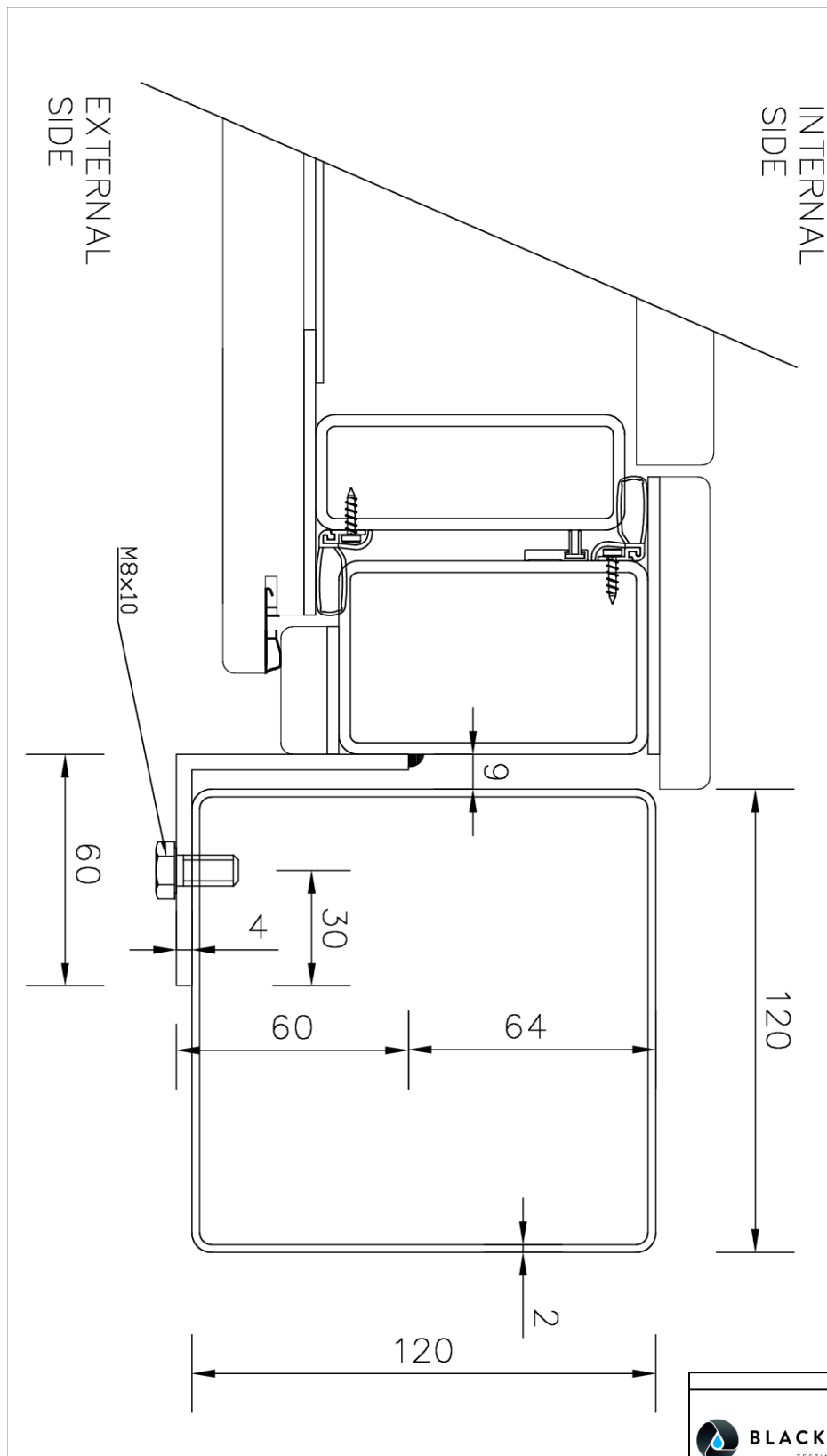
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	Date: 08/18/2026
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FORTIFIED & BALLISTIC SECURITY

TEST INSTALLATION SYSTEM SIDES PART



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	Date: 08/18/2026
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APPENDIX B

Datasheet

rendered to:

Davinci Design Windows, LLC

SERIES/MODEL: Solid pivot door

PRODUCT TYPE: Pivot door

Report ID: BW-DAV-26-001

Test Date: 04/01/2021

Report Date: 08/18/2026

Detention End Date: 08/18/2036

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UNIBLI 25

cod. UNIBLI25

2 YEARS *
WARRANTY

lengths
2300 mm

EN Universal gasket for security doors (frame width 25 mm) consisting on an aluminum profile combined with a soft seal. It guarantees high soundproofing sealing performances. An excellent element to comply the CE certification standards for doors.

colours

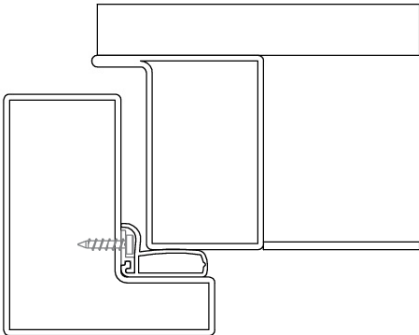
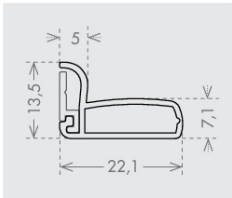


BLACK

application



SECURITY,
IRON,
AND TIMBER
DOORS



IT Guarnizione universale per porte blindate (battuta da 25 mm) composta da un profilo di alluminio ed una morbida guarnizione. Alte prestazioni di tenuta acustica e ottimo complemento per rispettare gli standard di certificazione CE del serramento.

DE Universelle Dichtung für Sicherheitstüren (Anschlaghöhe 25 mm) aus einem Aluminiumprofil und einer weichen Dichtlippe. Hohe Schallschutzeleistungen und ausgezeichnete Ergänzung zur Einhaltung der CE-Zertifizierungsstandards für Türen.

FR Joint universel pour porte blindée (battue de 25mm) composé d'un profilé en aluminium et d'un joint souple. Hautes performances d'étanchéité acoustique et excellent complément pour se conformer aux normes de certification CE des portes.

ES Junta universal para puertas blindadas (batién- te de 25 mm) compuesta de un perfil de aluminio y una junta blanda. Grandes prestaciones de aislamiento acústico y óptimo complemento para cumplir las normas de certificación CE de la carpintería.

RU Универсальный уплотнитель для бронированных дверей (притвор 25 мм), состоящий из алюминиевого профиля и мягкого уплотнителя. Обладает высокими шумозащитными характеристиками и является отличным вспомогательным средством для соблюдения стандартов для выдачи сертификата

CE на двери.

* See Terms & Conditions on www.cce.it

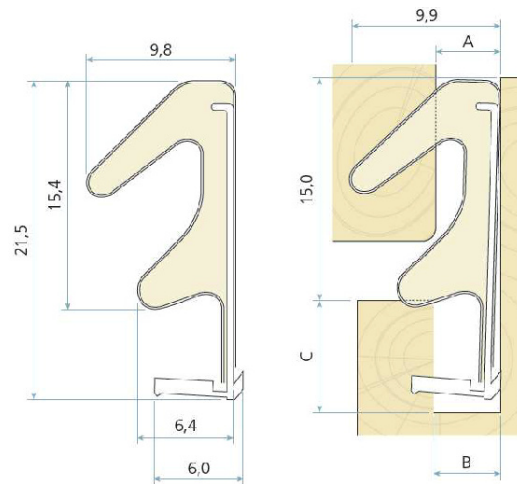
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B2

ERCOLE STANDARD GASKET



Technical specification

- A Seal gap: 4,0 mm minimum to 8,0 mm maximum
- B Groove width: 4,0 – 5,0 mm nominal
- C Minimum groove depth: 7,5 mm
- Rebate dimension: 15,0 mm

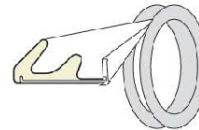
Colours

- White (≈ RAL 9003)
- Black (≈ RAL 9005)
- Bronze (≈ RAL 8019)
- Silver grey (≈ RAL 7001)
- Other colours upon request

Packaging

- 150 m x 2 / 400 m x 1

Coil direction

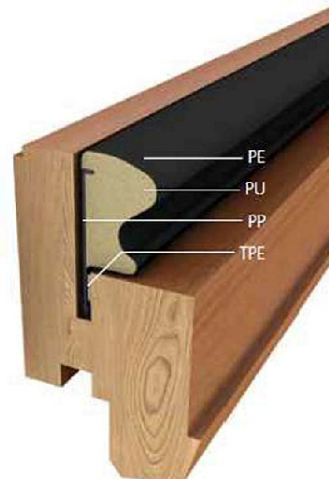


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- Polyurethane (PU) foam core – high durability, superior recovery performance
- Polyethylene (PE) film – weather and UV-resistant
- Glass fibre thread or polypropylene (PP) insert – prevents elongation and shrinkage
- Smooth or embossed exterior, resistant to contamination
- Compatible with cleaning agents



- Excellent memory – returns to original shape after long compression
- Stability – low / no stretch gained by rigid insert or glass fibre internal cord
- Easily compressed – low compression forces, unaffected by temperature variance
- Acoustics – outstanding acoustic performance
- Thermal conductivity – unrivalled thermal performance
- Paint and stain proof – properties unaffected by standard paints and stains
- Stabilised – unaffected by rot, fungi, UV-light or ozone
- Colours – white, black, brown, grey and many other options
- Temperatures – wide operating range under extremely cold and warm weather conditions

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	Date: 08/18/2026
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CORAL

cod. GUALC

2 YEARS *
WARRANTY

lengths
2100 2500 mm

EN Universal gasket with aluminum base for wooden doors. Ideal as a completion element to improve soundproofing sealing performances. An excellent element to comply the CE certification standards for doors.

colours

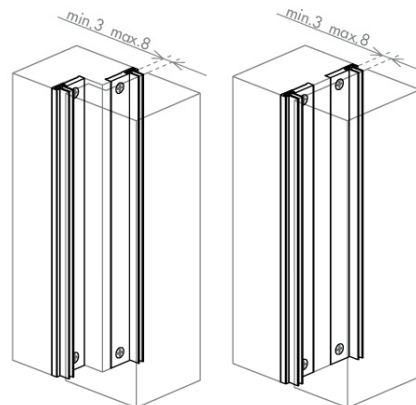
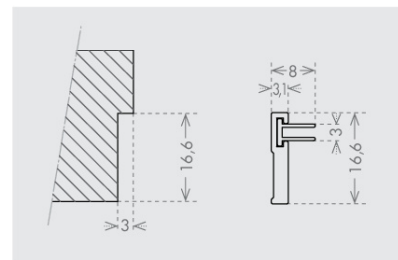
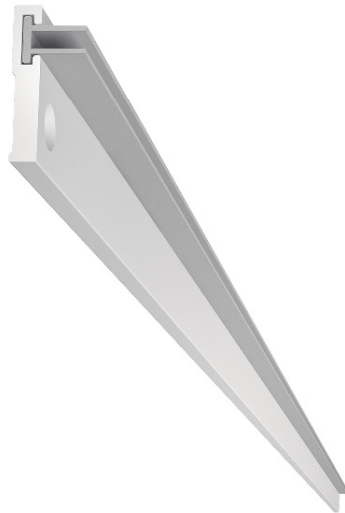


SILVER

application



TIMBER
DOOR



IT Guarnizione universale per porte in legno, con base in alluminio. Ideale come complemento per aumentare la tenuta acustica e per rispettare gli standard di certificazione CE del serramento.

DE Universelle Dichtung für Holztüren mit Aluminiumbasis. Ideal als Ergänzung für einen besseren Lärmschutz und zur Einhaltung der CE-Zertifizierungsstandards für Türen.

FR Joint universel pour portes en bois avec une base en aluminium. Idéal comme complément pour augmenter l'étanchéité acoustique et se conformer aux normes de certification CE des portes.

ES Junta universal para puertas de madera, con base de aluminio. Ideal como complemento para aumentar el aislamiento acústico y para cumplir las normas de certificación CE de la carpintería.

RU Универсальный уплотнитель с алюминиевым основанием для деревянных дверей. Является отличным вспомогательным средством для повышения звукоизоляции и соблюдения стандартов для выдачи сертификата CE на двери.

* See Terms & Conditions on www.cce.it

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CHRONOFLOOR

COD. KITSOGCHR
COD. TERMSOGCHR

2 YEARS *
WARRANTY

KITSOGCHR
lengths
430 730 1030 1330 1630 mm

EN Thickness and resistance are the main characteristics of this additional threshold for automatic drop down seals. With an height of only 4 mm this threshold respects the current laws in terms of escape routes and architectural barriers.

colours



SILVER
ANODISED

application



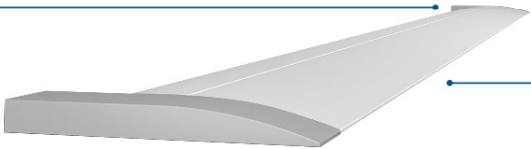
HINGED
DOOR

TERMSOGCHR

terminale

TERMSOGCHR

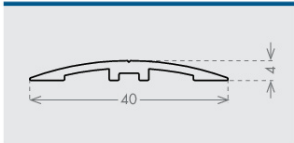
terminale



KITSOGCHR

threshold

size 40x4 mm



IT Soglia a pavimento supplementare per guarnizioni automatiche sottoporta, sottilissima e resistente. Con i suoi 4mm di altezza la soglia è ampiamente all'interno di tutte le normative su vie di fuga e barriere architettoniche ed è un ottimo complemento alle guarnizioni automatiche sottoporta.

DE Zusätzliche, sehr dünne und starke Bodenschwelle für automatische Unterblatttürdichtungen. Mit ihren 4 mm Höhe wird die Schwelle sämtlichen Normen zu Fluchtwegen und architektonischen Barrieren gerecht und ist ein ausgezeichnetes Zubehör für automatische Unterblatttürdichtungen.

FR Seuil de porte spécialement conçu pour les plinthes automatiques Chronoseal, fin et résistant. Avec ses 4mm de hauteur, ce seuil rentre amplement au sein de toutes les normes sur les sorties de secours et les barrières architecturales, et est également le complément idéal aux plinthes automatiques.

ES Umbral de suelo adicional para juntas automáticas de debajo de la puerta, finísimo y resistente. Con sus 4 mm de altura, el umbral cumple ampliamente todas las normativas sobre vías de fuga y barreras arquitectónicas y es un complemento óptimo a las juntas automáticas de debajo de la puerta.

RU Дополнительный, очень тонкий и прочный напольный порог для автоматически выпадающих уплотнителей. Обладая высотой всего лишь в 4 мм, порог полностью соответствует всем правилам по эвакуационным путям и архитектурным барьерам, и является отличным дополнением к автоматически выпадающим уплотнителям.

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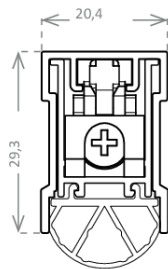
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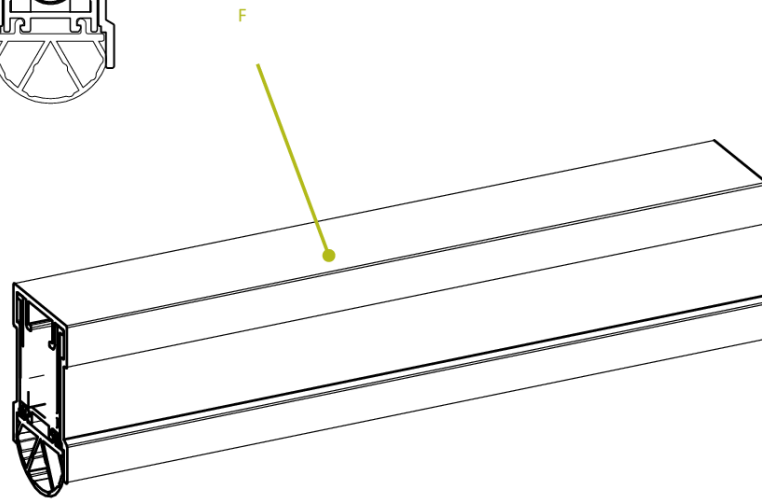
B5

ACQUASTOPREG

F. COD. ACQUASTOPREG



	Report n° BW-DAV-26-001-Report-revA
	Date: 08/18/2026
	Verified by: <u>Andrea Tarcato</u>



IT Diventato uno standard per chi deve certificare le porte blindate per tenuta all'Aria/Acqua/Vento, si può dimensionare su porte ad 1 anta o 2 ante. I terminali laterali ed i giunti centrali della soglia a pavimento e della guarnizione sottoporta, sono dimensionati sulle specifiche tecniche del serramento del cliente.

DE Ein Standard für alle, die Sicherheitstüren für Luft-/Wasser-/Winddichtung zertifizieren müssen. Kann auf ein- oder zweiflügelige Türen angebracht werden. Die Seiten- und mittleren Verbindungsteile der Bodenschwelle und der Unterblattichtungen sind auf Grundlage der technischen Spezifikationen der Kundentür bemessen.

FR Devenue un standard pour les clients qui doivent certifier les portes blindées aux tests AEV, la solution peut s'adapter pour les portes à simple ou double vantail. Les bouchons latéraux et centraux du seuil et de la plinthe sont dimensionnés selon les caractéristiques techniques des ouvrants du client.

ES Se ha convertido en un estándar para quien tiene que certificar las puertas blindadas para la estanqueidad al aire, agua y viento y se puede dimensionar en puertas de 1 o 2 hojas. Los terminales laterales y las juntas centrales del umbral de suelo y de la junta de debajo de la puerta se dimensionan según las especificaciones técnicas de la carpintería del cliente.

RU Этот порог, ставший уже обязательным выбором тех, кто должен сертифицировать воздухо-, водо- и ветронепроницаемость бронированных дверей, может иметь размеры для 1-створчатых или 2-створчатых дверей. Размеры торцевых элементов и центральных соединений напольного порога и порогового дверного уплотнителя выбираются с учетом технических характеристик двери клиента.

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B6

Ordering code: 107B-A + length (mm) Packing: 100 pcs

TECHNICAL DATA

Silver matte anodised aluminium profile Mounting slotted holes upon request
Seal in self-extinguish silicone (-40°C/+ 200°C)
Standard length: 1000 mm
Maximum length: 3000 mm

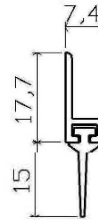


PARASPIFFERI

Codice d'ordine: 107B-A + lunghezza (mm)
Imballo: 100 pz

DATI TECNICI

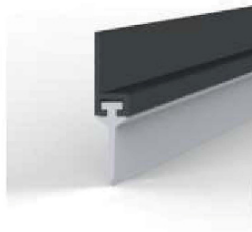
Profilo in alluminio anodizzato argento opaco
Asole preforate su richiesta
Guarnizione in silicone autoestinguente (-40°C/+ 200°C)
Lunghezza standard: 1000 mm
Lunghezza massima: 3000 mm



Ordering code: 107B-N + length (mm) Packing: 100 pcs

TECHNICAL DATA

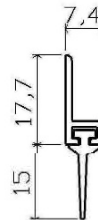
Black anodised aluminium profile
Mounting slotted holes upon request
Seal in self-extinguish silicone (-40°C/+ 200°C)
Standard length: 1000 mm
Maximum length: 3000 mm



Codice d'ordine: 107B-N + lunghezza (mm)
Imballo: 100 pz

DATI TECNICI

Profilo in alluminio anodizzato nero
Asole preforate su richiesta
Guarnizione in silicone autoestinguente (-40°C/+ 200°C)
Lunghezza standard: 1000 mm
Lunghezza massima: 3000 mm



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CHRONOAIR

cod. ACNOACHR
cod. ACNOACHR12

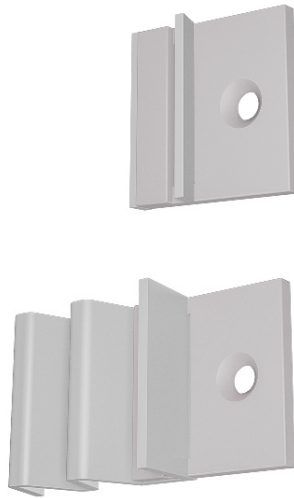
2 YEARS *
WARRANTY

EN By filling lateral gaps between seal and door jamb, Chronoair increases the acoustic performances of Chronoseal models. Chronoair terminals are available in two version according to the width of the gap to fill. The longest version can be shortened to the needed lenght.

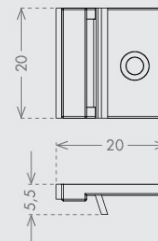
colours



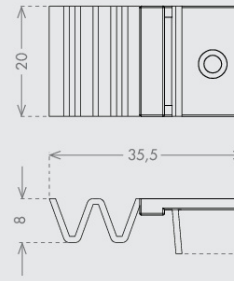
GREY



cod. ACNOACHR



cod. ACNOACHR12



IT Aumenta la tenuta acustica delle guarnizioni automatiche Chronoseal, chiudendo gli spazi laterali. I terminali Chronoair sono disponibili in due versioni, a seconda dello spazio che serve chiudere. La versione più lunga può essere accorciata al bisogno.

DE Steigert durch Abschießen der Seitenräume den Schallschutz der automatischen Türdichtungen Chronoseal. Die Abschlussteile Chronoair gibt es, je nachdem, was sie abschließen müssen, in zwei Ausführungen. Die längere Ausführung kann bei Bedarf gekürzt werden.

FR Augmente la performance acoustique des plinthes automatiques Chronoseal en comblant les espaces latéraux. Les accessoires Chronoair sont disponibles en deux versions, en fonction de l'espace à combler. La version la plus longue peut être raccourcie si nécessaire.

ES Aumenta el aislamiento acústico de las juntas automáticas Chronoseal, cerrando los espacios laterales. Los terminales Chronoair están disponibles en dos versiones, según el espacio que hay que cerrar. La versión más larga puede acortarse si es necesario.

RU Увеличивает звукоизоляцию автоматических уплотнителей Chronoseal, закрывая боковые зазоры. Торцевые элементы Chronoair поставляются в двух вариантах, в зависимости от закрываемого зазора. При необходимости, наиболее длинный вариант может быть укорочен.

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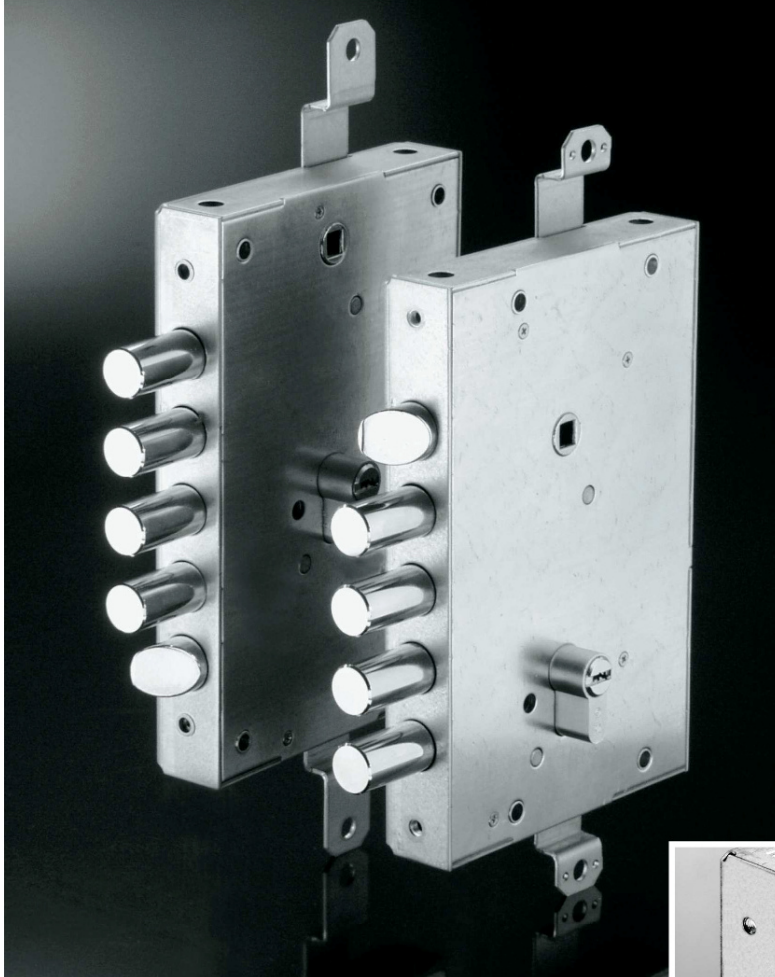
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D1

Serrature per porte blindate
Locks for armoured doors



SERRATURE A CILINDRO EUROPEO / EURO PROFILE CYLINDER LOCKS

Molte sono le caratteristiche che differenziano le serrature a cilindro della Serie 600. Eccone alcune:

- Meccanismo di movimento del catenaccio a ruote di ingranaggi demoltiplicati, che garantiscono alla chiave una rotazione fluida e senza sforzo;
- Sistema di blocco automatico del catenaccio in caso di estrazione forzosa del cilindro (Self Locking System);
- Catenaccio rinforzato, che permette di ottenere il grado 7 della Norma UNI EN12209:2005.

European cylinder locks from the 600 series have many distinguishing features. Here are some of them:

- Latch movement mechanism with demultiplied gear wheels that guarantee effortless, fluid key turning;
- Automatic latch self-locking system in case of forced cylinder extraction (Self Locking System);
- Latch reinforced beyond UNI EN12209:2005 standard degree 7.

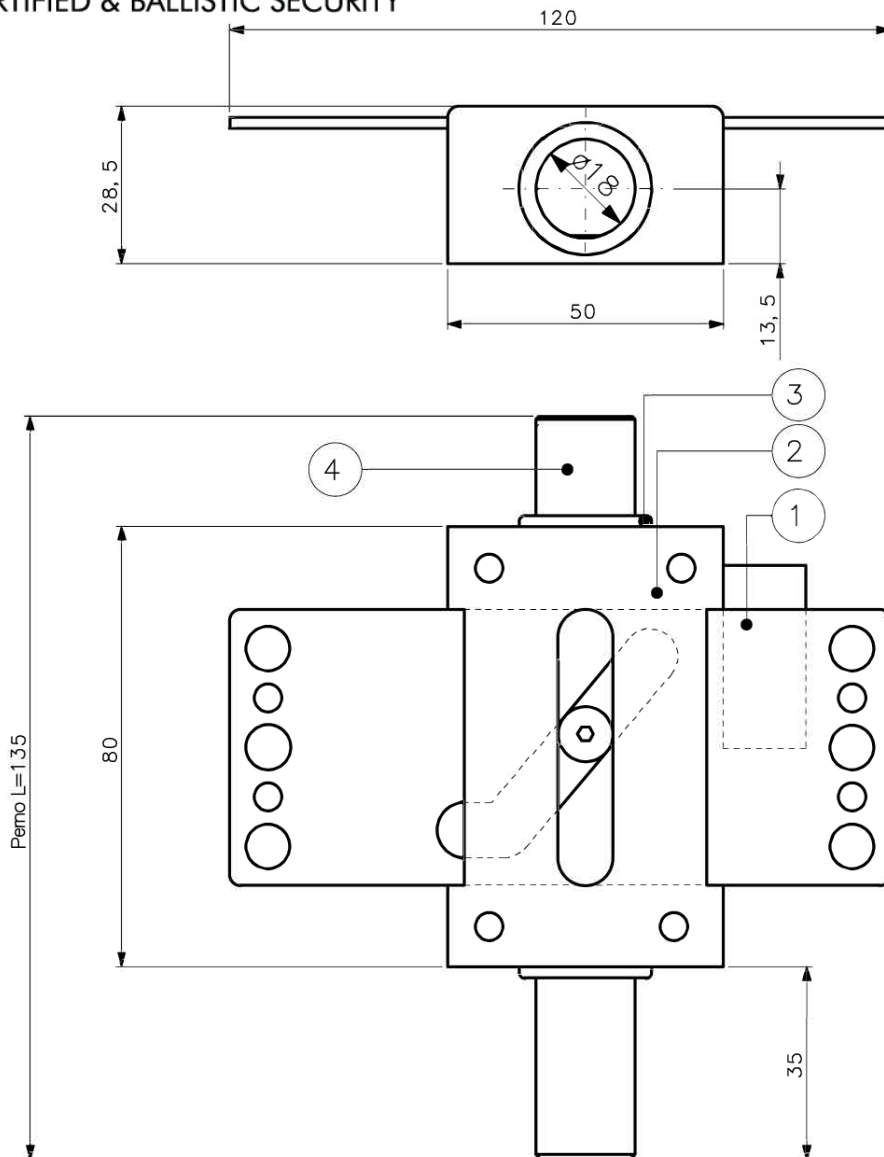


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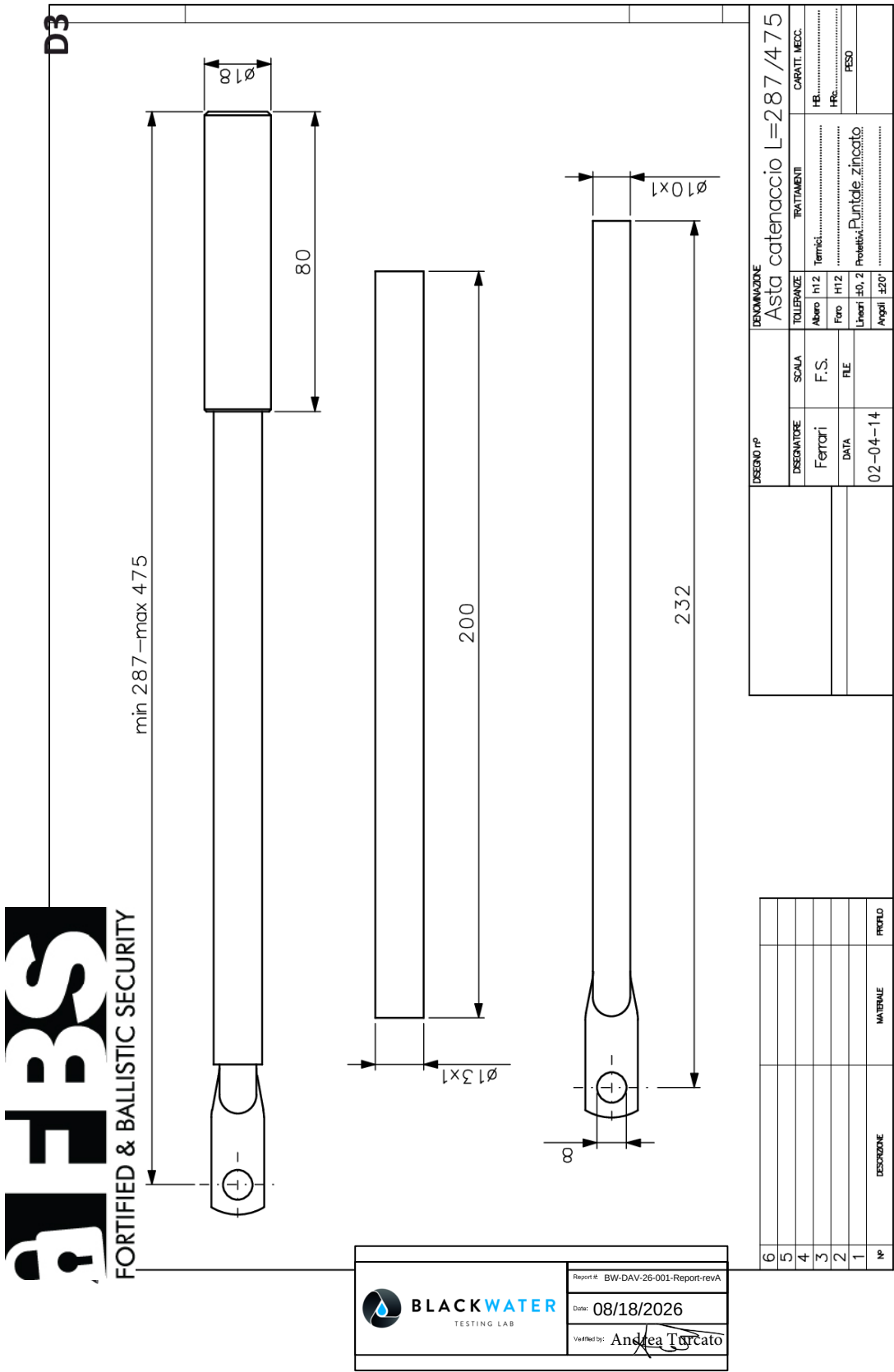


D2

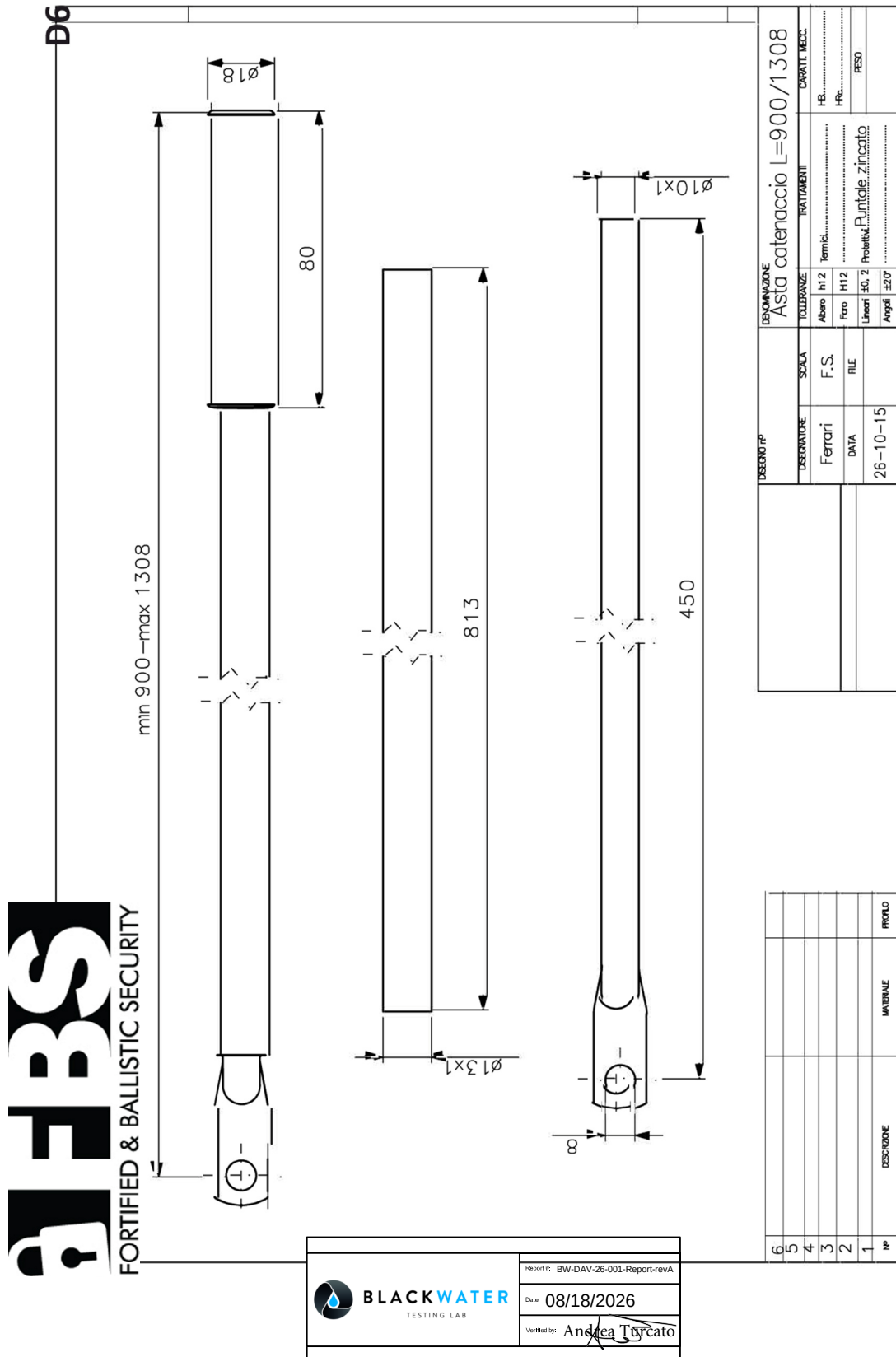


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Cod. Fisc. 03703650154
Cap. Soc. € 3.637.800,00

BELLOTTI
L'EVOLUZIONE DEL LEGNO

Scheda tecnica

LARIDOOR®

Descrizione

Pannello multistrato disponibile in varie specie legnose, realizzato con faccia e strato decorativo interno (risultante dopo lavorazione) nella stessa specie, per lavorazioni a pantografo ad effetto massello. Il pannello LARIDOOR® si contraddistingue per la speciale stratificazione, in grado di realizzare un piano di supporto bilanciato, che assicura un'eccellente stabilità dimensionale e un ottimo grado di planarità al pannello lavorato.

In particolare l'accurato allineamento della venatura e l'utilizzo della medesima specie legnosa per lo strato decorativo interno e per la faccia garantiscono, al pannello lavorato a pantografo, l'effetto massello.

Tali caratteristiche consentono particolari lavorazioni al pantografo che, unite all'incollaggio, di tipo melamminico adatto ad impieghi in ambienti umidi (EN 314 classe 2 - UNI 6478/69 Tipo 100), garantiscono una resistenza alle variazioni climatiche nettamente maggiore rispetto ai pannelli di legno massiccio.



Caratteristiche	Norma	Unità	Valore		
Spessore pannello	EN 315	mm	7	10	14
Strati		n°	5	7	9
Dimensioni standard	EN 315	mm	2150 x 950 / 2500 x 1250		
Profondità di pantografatura		mm	7 (su richiesta profondità differenti)		
Tipologie e relative costruzioni standard					
Denominazione	Faccia	Strato pantograf.	Legno di Supporto		Massa volumica
					(kg/m³ EN 323)
Okoumè 100%	Okoume dr.	Okoume dr.	Okoume dr.		525
Okoumè "2S"	Okoume dr.	Okoume dr.	Fromager dr.		400
Sapelli dr.	Sapelli dr.	Okoume dr.	Okoume dr.		530
Faggio tr.	Faggio tr.	Faggio dr.	Fromager dr.		430
Tanganica tr. "2T"	Tanganica tr.	Tanganica tr.	Fromager dr.		450
Rovere tr. "2T"	Rovere tr.	Rovere tr.	Fromager dr.		460
Pino tr. "2T"	Pino tr.	Pino tr.	Fromager dr.		450
Douglas tr. "2T"	Douglas tr.	Douglas tr.	Fromager dr.		450
Ciliegio tr. "2T"	Ciliegio tr.	Ciliegio tr.	Okoumè dr.		525
Teak "burma" tr. "2T"	Teak "burma" tr.	Teak "burma" tr.	Dibetù dr.		580
Tanganica tr. A/BC	Tanganica tr.	Fromager dr.	Fromager dr.		400
Rovere tr. A/BC	Rovere tr.	Fromager dr.	Fromager dr.		400
Pino tr. A/BC	Pino tr.	Fromager dr.	Fromager dr.		400
Douglas tr. A/BC	Douglas tr.	Fromager dr.	Fromager dr.		400

Tolleranze dimensionali conformi a quanto previsto dalla norma EN 315

Su richiesta è possibile valutare la produzione di pannelli con tolleranze di spessore più restrittive.

Note:

- E' possibile realizzare su richiesta pannelli Laridoor® con finiture differenti.
- Verniciatura:
date le varie tipologie di costruzione dei pannelli, in relazione al tipo di lavorazione effettuata ed al grado di esposizione del manufatto finito, si consiglia di effettuare la protezione del pannello e di verificarne l'idoneità.

N.B.:

I dati riportati nella presente scheda tecnica sono da considerarsi puramente indicativi e suscettibili di variazione senza preavviso. E' responsabilità dell'acquirente determinare se i prodotti Bellotti sono idonei alle applicazioni desiderate ed assicurarsi che i luoghi e le modalità di utilizzo siano conformi alle prescrizioni della fornitrice ed alla normativa vigente

Rev. 03

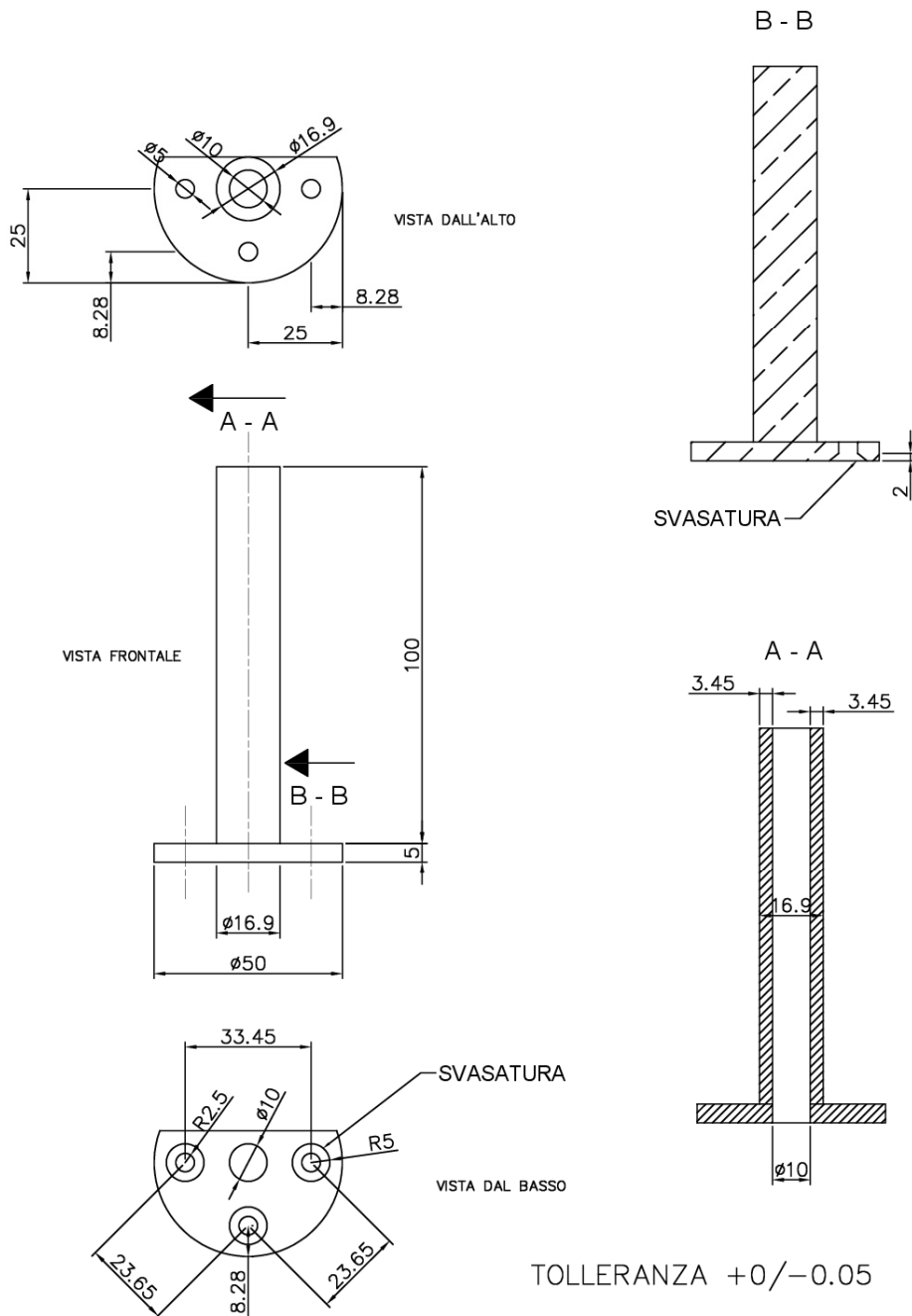
Bellotti S.p.A. Società Unipersonale soggetta a direzione e coordinamento della Laribell S.r.l. - Reg. Imp. Trib. Monza N. 03703650154 - R.E.A. MI 864203 - R.E.A. CO 225267 - Estero MI 127627 - Sede Legale: Via Trento, 68 - 20821 Meica (MB)

	Report #: BW-DAV-26-001-Report-revA
	Date: 08/18/2026
	Verified by: Andrea Tarcato

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M00830-1
PERNO SUPERIORE PER BILICO
PASSACAVO REV1



 BLACKWATER TESTING LAB	Report N° BW-DAV-26-001-Report-revA
	Date: 08/18/2026
	Verified by: <u>Andrea Turcato</u>

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APPENDIX C

Bill of materials

rendered to:

Davinci Design Windows, LLC

SERIES/MODEL: Solid pivot door

PRODUCT TYPE: Pivot door

Report ID: BW-DAV-26-001

Test Date: 04/01/2021

Report Date: 08/18/2026

Detention End Date: 08/18/2036

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#	Reference	Description	Material
1	A1	Structural "L" steel profile – sides frame	Steel
2	A2	Structural "T" steel profile – side leaf	Steel
3	A3	Structural "Z" steel profile – side leaf	Steel
4	A4	Structural "O" steel profile – upper frame part	Steel
5	A5	Structural "H" steel profile – upper leaf part	Steel
6	A6	Structural "H" steel profile – lower leaf part	Steel
7	A7	Reinforcement structural "O" steel profile – leaf part	Steel
8	A8	Sheet steel – leaf part	Steel
9	B1	Gasket for water infiltration – side part	Soft PVC w/ aluminum profile
10	B2	Gasket for water infiltration – side part	Polyurethane foam ore w/ polyethylene film
11	B3	Gasket for air infiltration – side, lower, and upper part	Soft PVC w/ aluminum profile
12	B4	Threshold for air and water infiltration – lower and upper part	Aluminum 6060 T6
13	B5	Dropdown seal for air and water infiltration – lower and upper part	Soft PVC w/ aluminum profile
14	B6	Gasket for air and water infiltration – lower and upper part	Soft PVC w/ aluminum profile
15	B7	Gasket for air and water infiltration – lower and upper part	Soft PVC
16	C1	Laridoor wood support for gasket – side part	Laridoor wood
17	C2	External panel with support for gasket – side part	Laridoor wood
18	C3	External trim frame – side part	Laridoor wood
19	C4	External trim frame – upper part	Laridoor wood
20	D1	Lock system – side part	n/a
21	D2	Multipoint lock system – side part	n/a
22	D3	Multipoint lock system – upper part	n/a
23	D4	Bearing system – lower part	n/a
24	D5	Bearing system – upper part	n/a
25	D6	Connection auctions system – leaf part	n/a

 BLACKWATER TESTING LAB	Report #: BW-DAV-26-001-Report-revA
	Date: 08/18/2026
	Verified by: <u>Andrea Torcato</u>

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APPENDIX D

Die drawings

rendered to:

Davinci Design Windows, LLC

SERIES/MODEL: Solid pivot door

PRODUCT TYPE: Pivot door

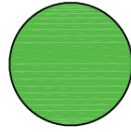
Report ID: BW-DAV-26-001

Test Date: 04/01/2021

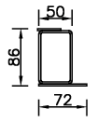
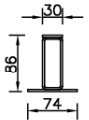
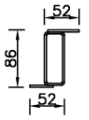
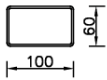
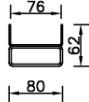
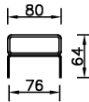
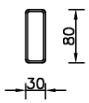
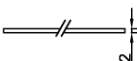
Report Date: 08/18/2026

Detention End Date: 08/18/2036

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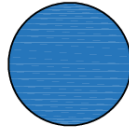


A — PROFILE (CONSTRUCTION ELEMENTS)

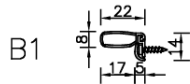
- A1  STRUCTURAL "L" STEEL PROFILE — SIDES FRAME
- A2  STRUCTURAL "T" STEEL PROFILE — SIDE LEAF
- A3  STRUCTURAL "Z" STEEL PROFILE — SIDE LEAF
- A4  STRUCTURAL "O" STEEL PROFILE — UPPER FRAME PART
- A5  STRUCTURAL "H" STEEL PROFILE — UPPER LEAF PART
- A6  STRUCTURAL "H" STEEL PROFILE — LOWER LEAF PART
- A7  REINFORCEMENT STRUCTURAL "O" STEEL PROFILE — LEAF PART
- A8  SHEET STEEL — LEAF PART

 BLACKWATER TESTING LAB	Report #: BW-DAV-26-001-Report-revA
	Date: 08/18/2026
	Verified by: <u>Andrea Tarcato</u>

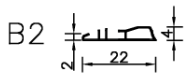
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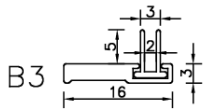
B — GASKET (ELEMENTS FOR WATER AND AIR INFILTRATION)



B1 1° AND 2° GASKET FOR WATER INFILTRATION — SIDES PART



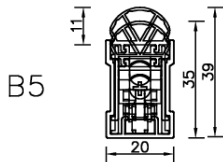
B2 3° GASKET FOR WATER INFILTRATION — SIDES PART



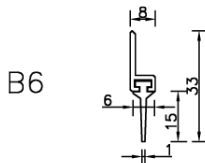
B3 4° GASKET FOR THE AIR INFILTRATION — SIDES, LOWER AND UPPER PART



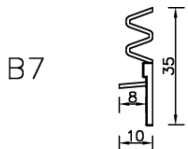
B4 THERSHOLD FOR AIR AND WATER INFILTRATION — LOWER AND UPPER PART



B5 DROP DOWN SEAL FOR AIR AND WATER INFILTRATION — LOWER AND UPPER PART



B6 GASKET FOR AIR AND WATER INFILTRATION — LOWER AND UPPER PART



B7 GASKET FOR AIR AND WATER INFILTRATION — LOWER AND UPPER PART ON THE CORNERS

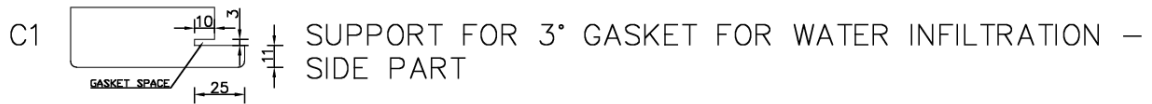
	Report #: BW-DAV-26-001-Report-revA
	Date: 08/18/2026
	Verified by: <u>Andrea Tarcato</u>

— 2 —

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C – PROFILE (SUPPORTS, PANELS, TRIMS)



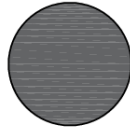
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	Date: 08/18/2026
	Verified by: <u>Andrea Turcato</u>

— 3 —

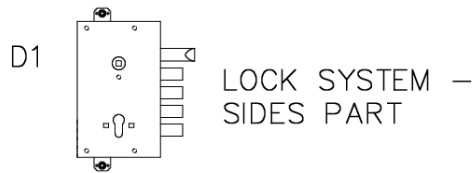
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D — MECHANIC ELEMENTS (LOCK, BEARINGS, ETC.)



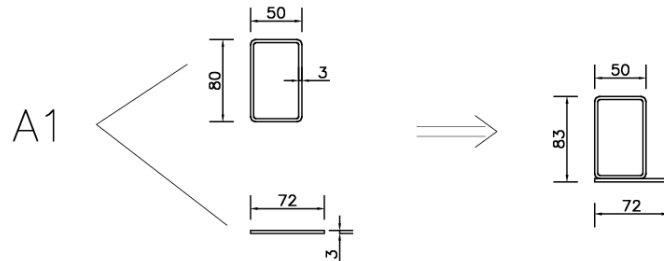
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	Date: 08/18/2026
	Verified by: <u>Andrea Tarcato</u>

— 4 —

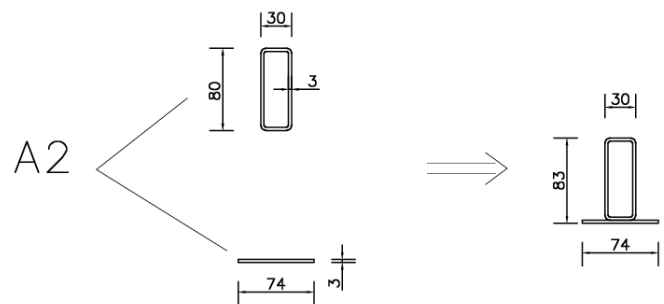
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ASSEMBLY DETAILS "L" PROFILE

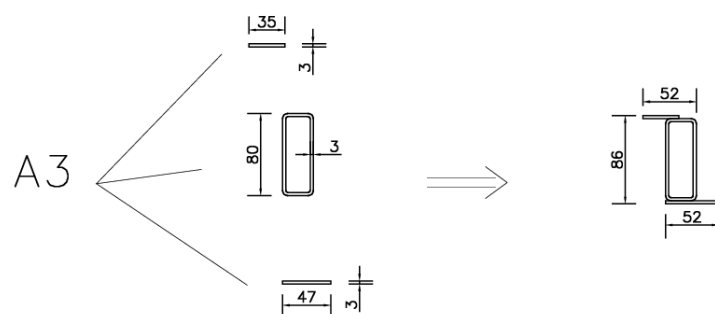


ASSEMBLY DETAILS "T" PROFILE



	Report #: BW-DAV-26-001-Report-revA
	Date: 08/18/2026
	Verified by: <u>Andrea Tarcato</u>

ASSEMBLY DETAILS "Z" PROFILE



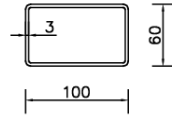
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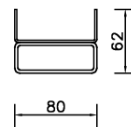
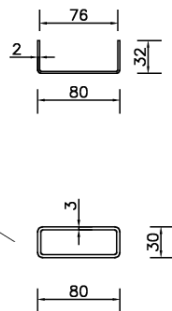
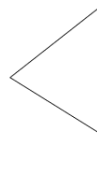
"O" PROFILE

A4



ASSEMBLY DETAILS UPPER "H" PROFILE

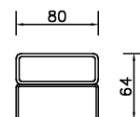
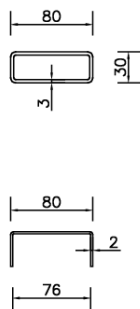
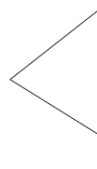
A5



	Report #: BW-DAV-26-001-Report-revA
	Date: 08/18/2026
	Verified by: <u>Andrea Turcato</u>

ASSEMBLY DETAILS LOWER "H" PROFILE

A6



—10—

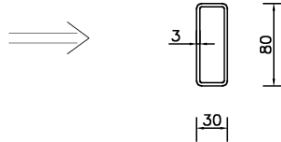
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"0" PROFILE (REINFORCEMENT STRUCTURAL)

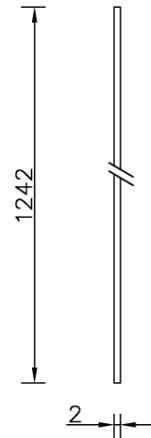
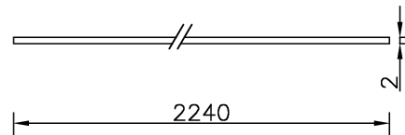
A7



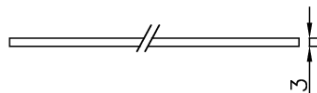
SHEET STEEL

3 PIECE

A8



SHEET STEEL (CONSTRUCTION PLATES FOR PROFILES)



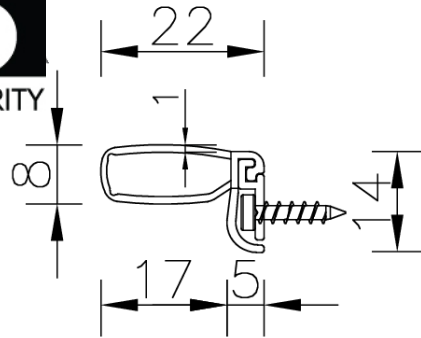
 BLACKWATER TESTING LAB	Report #: BW-DAV-26-001-Report-revA
	Date: 08/18/2026
	Verified by: <u>Andrea Turcato</u>

— 11 —

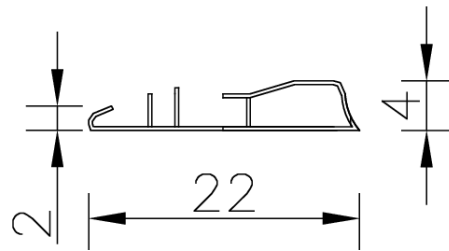
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B1

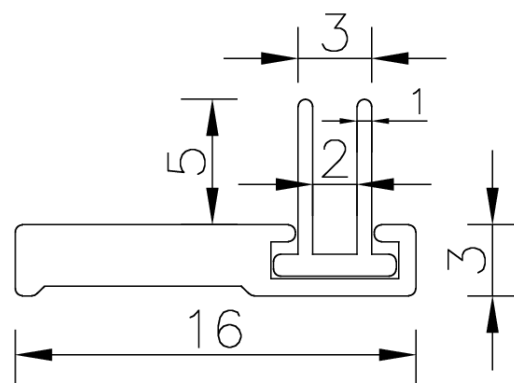


B2



	Report #: BW-DAV-26-001-Report-revA
	Date: 08/18/2026
	Verified by: <i>Andrea Turcato</i>

B3

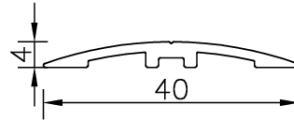


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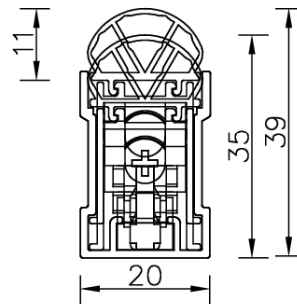
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B4

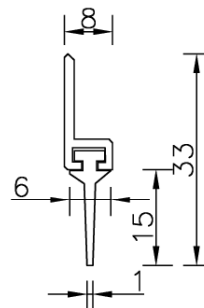


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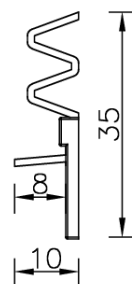


	Report #: BW-DAV-26-001-Report-revA
	Date: 08/18/2026
	Verified by: <u>Andrea Turchato</u>

B6



B7



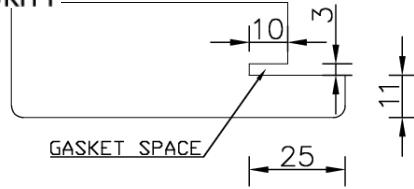
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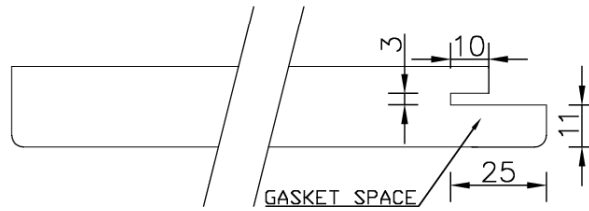


FORTIFIED & BALLISTIC SECURITY

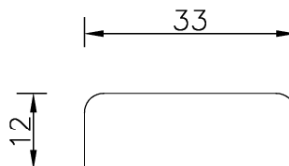
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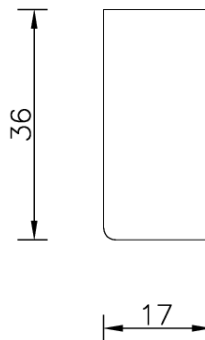
C2



C3



C4



	Report #: BW-DAV-26-001-Report-revA
	Date: 08/18/2026
	Verified by: <i>Andrea Tarcato</i>

— 14 —

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APPENDIX E

Photo

rendered to:

Davinci Design Windows, LLC

SERIES/MODEL: Solid pivot door

PRODUCT TYPE: Pivot door

Report ID: BW-DAV-26-001

Test Date: 04/01/2021

Report Date: 08/18/2026

Detention End Date: 08/18/2036

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 BLACKWATER TESTING LAB	Report #: BW-DAV-26-001-Report-revA
	Date: 08/18/2026
	Verified by: <u>Andrea Turcato</u>

SPECIMEN 1 [#20.013.015]

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 BLACKWATER TESTING LAB	Report #: BW-DAV-26-001-Report-revA
	Date: 08/18/2026
	Verified by: <u>Andrea Tarcato</u>

SPECIMEN 1 [#20.013.015]

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 BLACKWATER TESTING LAB	Report #: BW-DAV-26-001-Report-revA
	Date: 08/18/2026
	Verified by: <u>Andrea Turchato</u>

SPECIMEN 1 [#20.013.015]

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 BLACKWATER TESTING LAB	Report #: BW-DAV-26-001-Report-revA
	Date: 08/18/2026
	Verified by: <u>Andrea Torcato</u>

SPECIMEN 1 [#20.013.015]

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 BLACKWATER TESTING LAB	Report #: BW-DAV-26-001-Report-revA
	Date: 08/18/2026
	Verified by: <u>Andrea Torcato</u>

SPECIMEN 1 [#20.013.015]

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	Date: 08/18/2026
	Verified by: <u>Andrea Turcato</u>

SPECIMEN 1 [#20.013.015]

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 BLACKWATER TESTING LAB	Report #: BW-DAV-26-001-Report-revA
	Date: 08/18/2026
	Verified by: <u>Andrea Turchato</u>

SPECIMEN 1 [#20.013.015]

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 BLACKWATER TESTING LAB	Report #: BW-DAV-26-001-Report-revA
	Date: 08/18/2026
	Verified by: <u>Andrea Turcato</u>

SPECIMEN 1 [#20.013.015]



 BLACKWATER TESTING LAB	Report #: BW-DAV-26-001-Report-revA
	Date: 08/18/2026
	Verified by: <u>Andrea Turcato</u>

SPECIMEN 2 [#20.013.016]

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SPECIMEN 3 [#20.013.017]

 BLACKWATER TESTING LAB	Report #: BW-DAV-26-001-Report-revA
	Date: 08/18/2026
	Verified by: <u>Andrea Tarcato</u>

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END OF TEST REPORT

rendered to:

Davinci Design Windows, LLC

SERIES/MODEL: Solid pivot door

PRODUCT TYPE: Pivot door

Report ID: BW-DAV-26-001

Test Date: 04/01/2021

Report Date: 08/18/2026

Detention End Date: 08/18/2036

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