

Number	19-004356-PR05 (NW-A01-02-en-01)
Owner	Uniform S.p.A. Via dell Agricoltura 36 37046 Minerbe VR Italy
Product	Double tilt and turn casement door with opening meeting stile
Designation	System: uni_one magis40 Shipping name: uni_one Magis40
Details	Manufacturer Uniform S.p.A., - Minerbe VR; Material Wood-aluminium; Type of opening Turn / tilt and turn; Opening direction Active casement DIN right (opening) to the inside, Inactive casement DIN left (opening) to the inside; Overall dimensions (W x H) 1500 mm x 2400 mm
Special features	The vapour pressure equalisation of the glazing rebate has to be ensured. Position of locking

### Result

Air permeability according to EN 12207:2016-12



**Class: 4**

Resistance to wind load according to EN 12210:2016-03



**Class: C5/B5**

Watertightness according to EN 12208:1999-11



**Class: E1200**

ift Rosenheim  
27.10.2020

*Thomas Krichbaumer*

Thomas Krichbaumer  
Deputy Head of Testing Department  
Building Component Testing

*Denki*

Maximilian Denki  
Operating Testing Officer  
Building Component Testing

### Basis \*)

EN 14351-1:2006+A2:2016-09  
\*) and corresponding national versions  
(e.g. DIN EN)

Test report: 19-004356-PR05 PB-A01-02-en-01

### Representation



### Instructions for use

The Evidence ("Nachweis") can be used for preparing the Declaration of Performance in accordance with the Construction Products Regulation 305/2011/EU. The results obtained apply to the direct field of application determined in Annex E of EN 14351-1.

### Validity

There is no time limit.  
When using this document the up-to-dateness of above basis and the conformity of the product have to be observed.

### Notes on publication

The ift-Guidance Sheet "Conditions and Guidance for the Use of ift Test Documents" applies.

### Identity-Check



[www.ift-rosenheim.de/ift-geprueft](http://www.ift-rosenheim.de/ift-geprueft)  
ID: 2C1-521F5

# ift-Nachweis

## Klassifizierungsbericht



Nummer	19-004356-PR05 (NW-A01-02-de-01)
Inhaber	Uniform S.p.A. Via dell Agricoltura 36 37046 Minerbe VR Italien
Produkt	Zweiflügelige Drehkippenstertür mit offenbarem Mittelstück
Bezeichnung	System: uni_one Magis40 Lieferbezeichnung: uni_one Magis40
Details	Hersteller Uniform S.p.A., - Minerbe VR; Material Holz-Alu; Öffnungsart Dreh-/ Drehkipp; Öffnungsrichtung Gangflügel DIN rechts nach innen, Standflügel DIN links nach innen; Außenmaß (B x H) 1500 mm x 2400 mm
Besonderheiten	Der Dampfdruckausgleich des Glasfalzes ist sicherzustellen. Stellung der Verriegelungen

### Ergebnis

Luftdurchlässigkeit nach EN 12207:2016-12



**Klasse: 4**

Widerstandsfähigkeit bei Windlast nach EN 12210:2016-03



**Klasse: C5/B5**

Schlagregendichtheit nach EN 12208:1999-11



**Klasse: E1200**

ift Rosenheim

27.10.2020

*Thomas Krichbaumer*

Thomas Krichbaumer  
Stv. Prüfstellenleiter  
Bauteilprüfung

*Denki*

Maximilian Denki  
Prüfingenieur  
Bauteilprüfung

### Grundlagen \*)

EN 14351-1:2006+A2:2016-09

\*) und entsprechende nationale Fassungen (z.B. DIN EN)

Prüfbericht: 19-004356-PR05 PB-A01-02-en-01

### Darstellung



### Verwendungshinweise

Der Nachweis kann zur Erstellung der Leistungserklärung entsprechend der Bauproduktenverordnung 305/2011/EU verwendet werden. Die Ergebnisse gelten für den in EN 14351-1, Anhang E geregelten direkten Anwendungsbereich.

### Gültigkeit

Zeitlich nicht limitiert.

Bei der Anwendung sind die Aktualität der Grundlagen sowie die Übereinstimmung des Produkts zu beachten.

### Veröffentlichungshinweise

Es gilt das "Merkblatt zur Benutzung von ift-Prüfdokumentationen".

### Identitäts-Check



[www.ift-rosenheim.de/ift-geprueft](http://www.ift-rosenheim.de/ift-geprueft)  
ID: 2C1-521F5

# Test Report



Number	19-004356-PR05 (PB-A01-02-en-01)
Owner (Client)	Uniform S.p.A. Via dell Agricoltura 36 37046 Minerbe VR Italy
Product	<b>Double tilt and turn casement door with opening meeting stile</b>
Designation	System: <b>uni_one Magis40</b>
Details	Shipping name: <b>uni_one magis40</b> Manufacturer <b>Uniform S.p.A., - Minerbe VR;</b> Material <b>Wood-aluminium;</b> Type of opening <b>Turn / tilt and turn;</b> Opening direction <b>Active casement DIN right (opening) to the inside, Inactive casement DIN left (opening) to the inside;</b> Overall dimensions (W x H) <b>1500 mm x 2400 mm</b>
Special features	The vapour pressure equalisation of the glazing rebate has to be ensured. Position of locking
Order	Testing of air permeability, resistance to wind load, water-tightness
Contents	The test report contains a total of 14 pages and annexes (11 pages).
Note	The test report shall only be published in its unabbreviated form. The "Guidance Sheet for the Use of ift Test Documents" applies.

Ve-PR05-4356-entv (01.11.2019)

## Test Report

No. 19-004356-PR05 (PB-A01-02-en-01) dated 27.10.2020  
Owner (client) Uniform S.p.A., 37046 Minerbe VR (Italy)

Page 2 of 14

Testing of air permeability, resistance to wind load, watertightness



## 1 Execution

### 1.1 Sampling and product description

The following details have been presented to ift:

Sampler:

Evidence: ift Rosenheim did not receive a sampling report.

Date of delivery: 12.10.2020

Description: For product identification the specimen tested is described/represented in the Annex. Material specifications, item numbers and other company-specific descriptions are details provided by the client and will be checked for plausibility by ift.

Test specimen no.: 19-004356-PK05 / WE: 51857-001

### 1.2 Basic documents \*) of the procedures

EN 1026:2016 - 03

Windows and doors - Air permeability - Test method

EN 1027:2016 - 03

Windows and doors - Watertightness - Test method

EN 12211:2016 - 03

Windows and doors - Resistance to wind load - Test method

\*) and the relevant national versions, e.g. DIN EN

### 1.3 Short description of the procedures

The tests were performed according to the following sequence:

- Air permeability
- Resistance to wind load
- Air permeability - Repeated test after wind load test
- Watertightness
- Resistance to wind load - Safety test

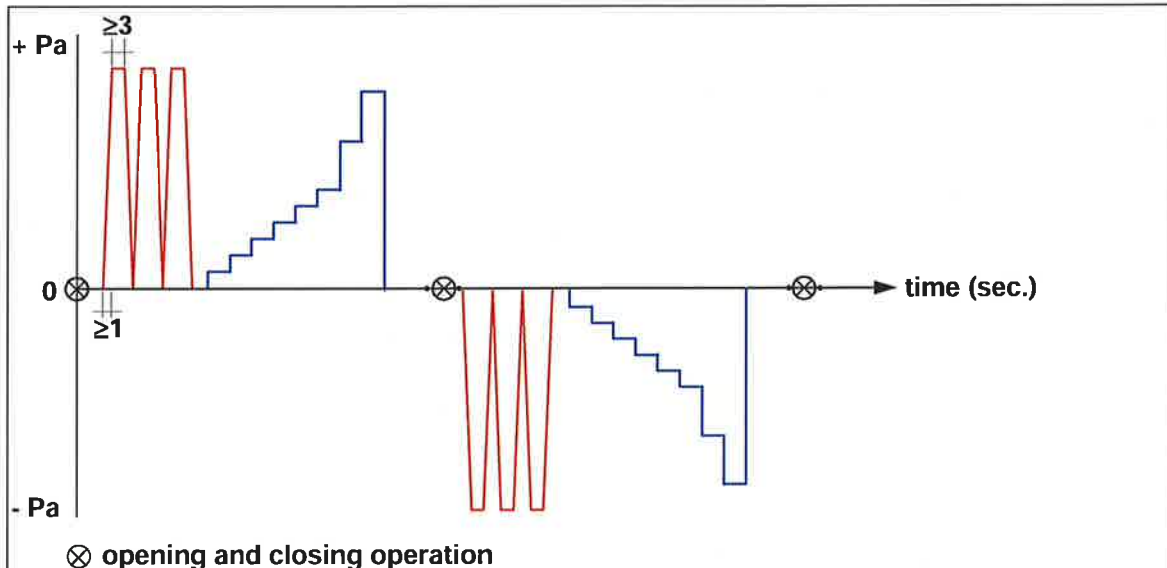
#### Air permeability according to EN 1026:2016-03

Prior to testing, all openable parts of the test specimen were opened and closed once. In addition to the standard specification the operating forces were determined as per EN 12046 for the release and/ or locking operation of the hardware.

Leakages of the test set-up were made visible using artificially generated fog and were sealed using permanently resilient sealant.

Air permeability was tested for the respective pressure steps at negative pressure and positive pressure in accordance with the following diagram. At the beginning of each measurement the test specimen was exposed to three pressure pulses.

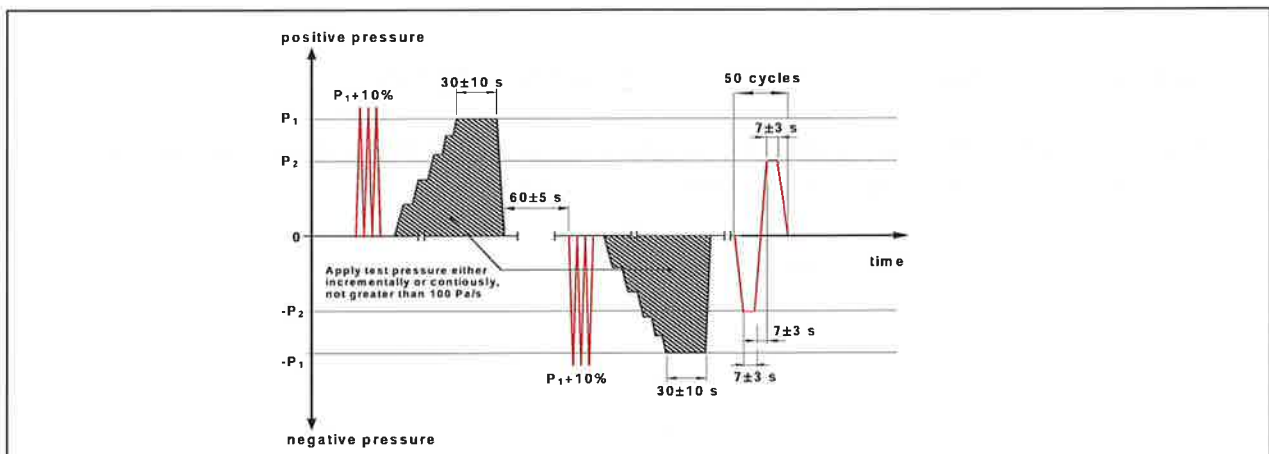
Testing of air permeability, resistance to wind load, watertightness



**Illustration** Test sequence for air permeability

Resistance to wind load according to EN 12211:2016-03

Resistance to wind load was tested in accordance with the standard and conducted in steps at positive pressure and negative pressure up to the test pressure  $p_1$ . The test specimen was exposed to three pressure pulses  $Dp_1 + 10\%$ . This was followed by determination of the frontal deflection of test specimen for each pressure step when exposed to positive test pressure  $Dp_1$  and negative test pressure  $-Dp_1$ . Then the test specimen was subjected to 50 cycles including alternating positive and negative pressures of  $\pm Dp_2 = Dp_1 - 50\%$ .



**Illustration** Test sequence for resistance to wind load - Deflection and alternating positive/negative pressures

Air permeability-Repeated test after wind load test according to EN 1026:2016-03

Following the static resistance to wind load test (deflection) and alternating positive/negative pressure the test for air permeability was repeated in conformity with EN 12210.

## Test Report

No. 19-004356-PR05 (PB-A01-02-en-01) dated 27.10.2020  
Owner (client) Uniform S.p.A., 37046 Minerbe VR (Italy)

Page 4 of 14

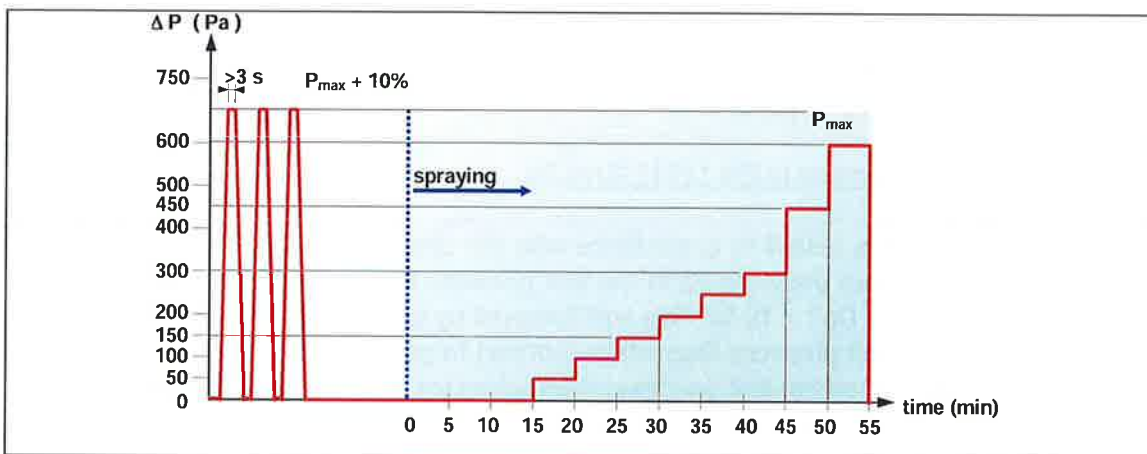


Testing of air permeability, resistance to wind load, watertightness

### Watertightness according to EN 1027:2016-03

Prior to the test, three positive pressure pulses were applied to the test specimen. Subsequently, the external surface of the test specimen was constantly sprayed with water through nozzles, conforming to the standard. After a 15-minute pressure-less spraying period an additional overpressure in terms of subsequent pressure steps was applied. The pressure steps were defined by the standard and were kept for 5 minutes each (see illustration). Watertightness was tested up to the maximum test pressure difference.

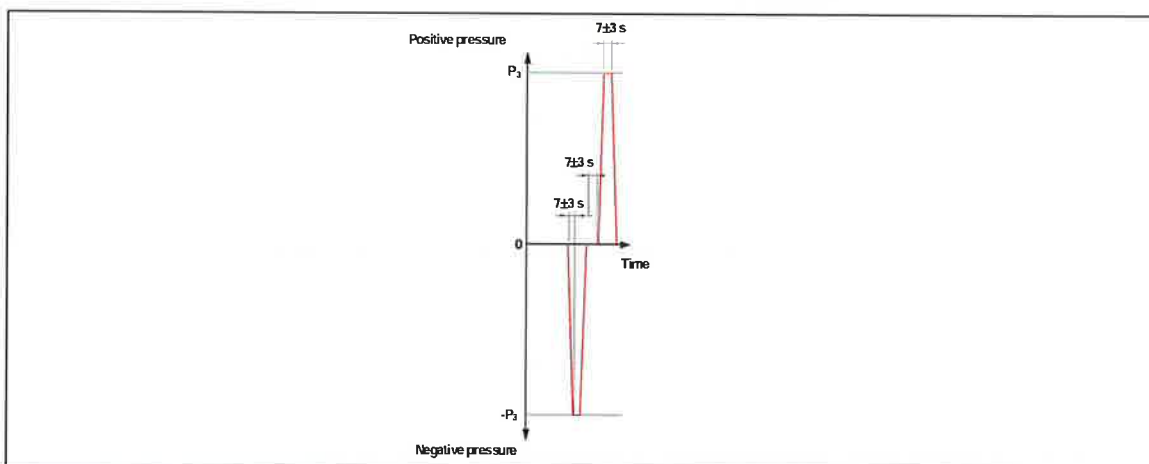
The water volume applied and the angle of spray depend on the intended type of installation of the component (protected / unprotected) and the height of the component ( $< / > 2.5$  m) according to the standard. The required water volume and the angle of spray are documented in the measuring data sheet.



**Illustration** Test sequence for watertightness

### Resistance to wind load - Safety test according to EN 12211:2016-03

The wind resistance test (safety test) was conducted at negative pressure and positive pressure in accordance with EN 12211 up to test pressure  $\Delta p_3 = \Delta p_1 + 50\%$ .



**Illustration** Test sequence for resistance to wind load - safety test

## Test Report

No. 19-004356-PR05 (PB-A01-02-en-01) dated 27.10.2020  
Owner (client) Uniform S.p.A., 37046 Minerbe VR (Italy)

Testing of air permeability, resistance to wind load, watertightness



## 2 Detailed results

### Air permeability according to EN 1026:2016-03

Project-No. 19-004356-PR05  
Basis EN 1026:2016-03  
Windows and doors - Air permeability - Test method  
Test equipment DM/020521 - Torque wrench  
Pst/020920 - Window and facade test rig  
Test specimen Double tilt and turn casement door with opening meeting stile  
Test specimen No. 51857-001  
Date of test 20.10.2020  
Test engineer in charge Maximilian Denkl  
Test engineer Maximilian Denkl

Implementation of tests  
Deviations There have been no deviations from the test method as specified in the standard/basis.

Ambient conditions Temperature 19 °C Air humidity 37,3 % Air pressure 962 hPa  
The ambient conditions are in accordance with the standard/basis requirements.

### Measurement data/Results

Closing condition closed and locked  
Size of window frame 1500 mm x 2400 mm  
Rated joint length of active casement 705 mm x 2347 mm  
Rated joint length of inactive casement 705 mm x 2347 mm  
Area of test specimen 3,60 m<sup>2</sup>  
Length of opening joints 9,86 m

Table: Measurement of operating forces

Individ. measured result	1	2	3	Average value
in Nm	5,2	5,4	5,3	5,3

**Test Report**


No. 19-004356-PR05 (PB-A01-02-en-01) dated 27.10.2020  
 Owner (client) Uniform S.p.A., 37046 Minerbe VR (Italy)




Testing of air permeability, resistance to wind load, watertightness

Initial load before positive wind pressure and negative wind pressure: 660 Pa


**Table: Air permeability at positive wind pressure**

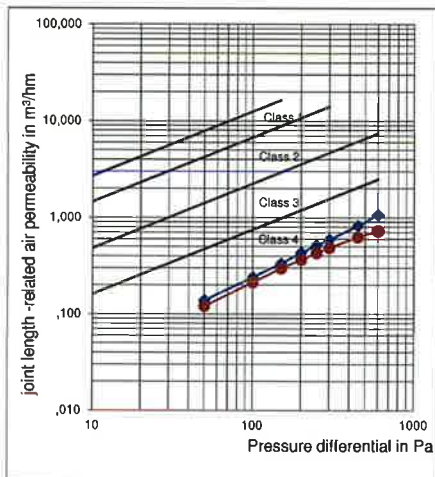
Measured results at positive wind pressure 	Pressure differential Pa	50	100	150	200	250	300	450	600
	Flow rate (volume) m³/h	1,4	2,4	3,3	4,3	5,1	5,9	8,1	10,4
	Joint length-related m³/hm	0,14	0,24	0,34	0,43	0,52	0,59	0,82	1,06
	Overall area-related m³/hm²	0,38	0,66	0,92	1,19	1,41	1,63	2,25	2,90

**Table: Air permeability at negative wind pressure**

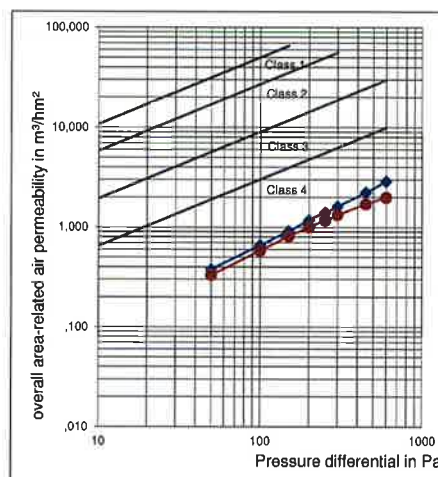
Measured results at negative wind pressure 	Pressure differential Pa	50	100	150	200	250	300	450	600
	Flow rate (volume) m³/h	1,2	2,1	2,9	3,6	4,3	4,8	6,2	7,2
	Joint length-related m³/hm	0,12	0,21	0,30	0,37	0,43	0,49	0,63	0,73
	Overall area-related m³/hm²	0,33	0,59	0,82	1,01	1,18	1,34	1,72	2,01

**Table: Air permeability from average values from positive and negative wind pressures**

Average value from positive and negative wind pressures 	Pressure differential Pa	50	100	150	200	250	300	450	600
	Flow rate (volume) m³/h	1,3	2,2	3,1	3,9	4,7	5,3	7,1	8,8
	Joint length-related m³/hm	0,1	0,2	0,3	0,4	0,5	0,5	0,7	0,9
	Overall area-related m³/hm²	0,4	0,6	0,9	1,1	1,3	1,5	2,0	2,5



**Diagram:** Joint length-related air permeability (positive and negative wind pressures)



**Diagram:** Overall area-related air permeability (positive and negative wind pressures)

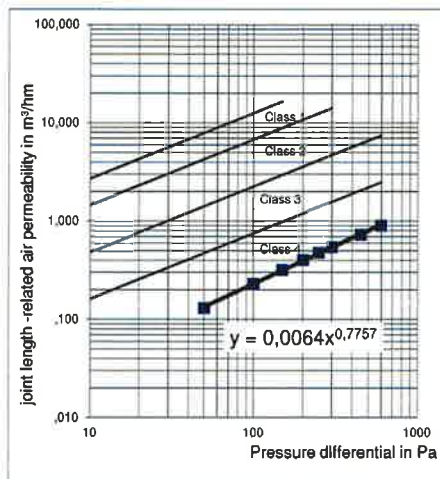


**Test Report**

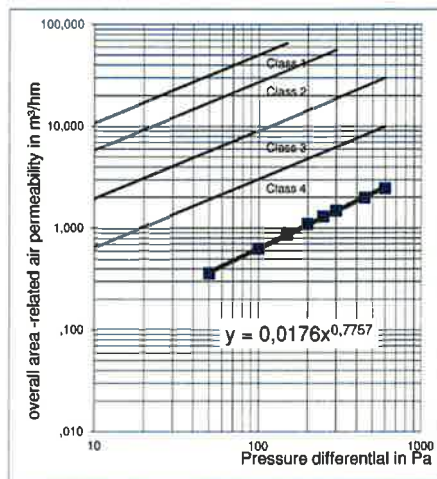
No. 19-004356-PR05 (PB-A01-02-en-01) dated 27.10.2020  
 Owner (client) Uniform S.p.A., 37046 Minerbe VR (Italy)



Testing of air permeability, resistance to wind load, watertightness



**Diagram:** Joint length-related air permeability (average value from positive and negative wind pressures)



**Diagram:** Overall area-related air permeability (average value from positive and negative wind pressures)

**Table:** Measured results

Reference air permeability related to joint length	Q100 = 0,23 m³/hm
Reference air permeability related to overall area	Q100 = 0,63 m³/hm²

**Comment**

The test was made with maximum hold of hardware

**Test Report**

No. 19-004356-PR05 (PB-A01-02-en-01) dated 27.10.2020  
Owner (client) Uniform S.p.A., 37046 Minerbe VR (Italy)

Testing of air permeability, resistance to wind load, watertightness



**Resistance to wind load according to EN 12211:2016-03**

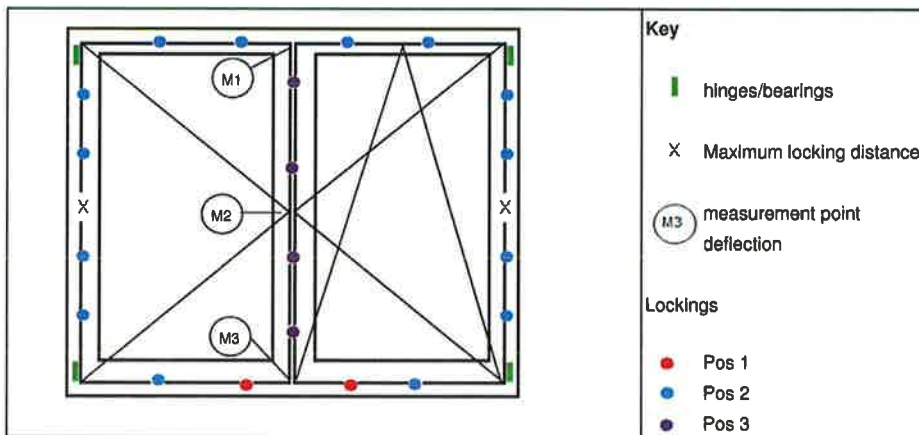
Project-No.	19-004356-PR05
Basis	EN 12211:2016-03 Windows and doors - Resistance to wind load - Test method
Test equipment	Pst/020920 - Window and facade test rig
Test specimen	Double tilt and turn casement door with opening meeting stile
Test specimen No.	51857-001
Date of test	20.10.2020
Test engineer in charge	Maximilian Denkl
Test engineer	Maximilian Denkl

**Implementation of tests**  
Deviations: There have been no deviations from the test method as specified in the standard/basis.

Ambient conditions: Temperature 19 °C Air humidity 37,3 % Air pressure 962 hPa  
The ambient conditions are in accordance with the standard/basis requirements.

**Measurement data/Results**

Closing condition



**Test Report**

No. 19-004356-PR05 (PB-A01-02-en-01) dated 27.10.2020  
 Owner (client) Uniform S.p.A., 37046 Minerbe VR (Italy)

Testing of air permeability, resistance to wind load, watertightness



Maximum test pressure:  $\pm 2000$  Pa                      3 pressure pulses of 2200 Pa

The deflection was not measured because, due to the perimeter locking and the existing locking distance at the existing specimen, the loads are directly conducted into the frame and no deformation of the frame members  $> l/300$  is likely to occur at the specified wind loads.

The test specimen was exposed to a load  $\pm$  Pa as specified by EN 12211.

Table: Maximum deflection for classification at effective span  $l = 2347$  mm

Class		maximum permissible relative deflection in mm
A	( $l/150$ )	15.6
B	( $l/200$ )	11.7
C	( $l/300$ )	7.8

Table: Measured results of frontal deflection in mm at negative / positive wind pressures

	$p_1$ in Pa	Positive wind pressure					Negative wind pressure				
		400	800	1200	1600	2000	-400	-800	-1200	-1600	-2000
Measured results of frontal deflection in mm	M1 in mm				4.0	5.3				4.8	5.5
	M2 in mm				7.7	10.0				8.2	10.2
	M3 in mm				1.5	2.1				8.2	2.2
	$f_{rel}$ in mm				4.9	6.3				1.7	6.4
	$l/f_{rel}$				482	374				1389	370

Table: Permanent deformation measured at 0 Pa after 60 seconds

		Positive pressure		Negative pressure	
Permanent deflection	M1 in mm	0.0		0.0	
	M2 in mm	0.0		0.0	
	M3 in mm	0.0		0.0	
	$f_{rel}$ in mm	0.0		0.0	

**Key**

$p_1, p_2$  Test pressure  
 M1, M2, M3 Frontal dislodgement at measurement points M1, M2, M3  
 $f_{rel}$  Frontal deflection  
 $l$  Effective span

**Dynamic wind loads (negative / positive pressures)**

Table: pressure pulses

$p_2$ in Pa	200	400	600	800	1000
passed					✓

50 cycles at  $p_2 \pm 1000$  Pa

**Malfunctions at test specimen**

At the test specimen were no malfunctions detected.

**Comment**

The test was made with maximum hold of hardware

**Test Report**

Page 10 of 14

No. 19-004356-PR05 (PB-A01-02-en-01) dated 27.10.2020  
Owner (client) Uniform S.p.A., 37046 Minerbe VR (Italy)

Testing of air permeability, resistance to wind load, watertightness

**Air permeability - Repetition of test after wind load according to EN 1026:2016-03**

Project-No.	19-004356-PR05		
Basis	EN 1026:2016-03 Windows and doors - Air permeability - Test method		
Test equipment	Pst/020920 - Window and facade test rig		
Test specimen	Double tilt and turn casement door with opening meeting stile		
Test specimen No.	51857-001		
Date of test	20.10.2020		
Test engineer In charge	Maximilian Denkl		
Test engineer	Maximilian Denkl		
Implementation of tests Deviations	There have been no deviations from the test method as specified in the standard/basis.		
Ambient conditions	Temperature	19 °C	Air humidity 37,3 %
	Air pressure	962 hPa	
	The ambient conditions are in accordance with the standard/basis requirements.		

**Measurement data/Results**

Closing condition	closed and locked		
Size of window frame	1500 mm	x	2400 mm
Rated joint length of active casement	705 mm	x	2347 mm
Rated joint length of inactive casement	705 mm	x	2347 mm
Area of test specimen	3,60 m <sup>2</sup>		
Length of opening joints	9,86 m		

Subsequent to the test of resistance to wind load by application of test pressures  $p_1$  and  $p_2$ , the upper limit of the achieved air permeability class must not be exceeded by more than 20% as set out by EN 12207.

The requirements were fulfilled.

**Comment**

The test was made with maximum hold of hardware

## Test Report

No. 19-004356-PR05 (PB-A01-02-en-01) dated 27.10.2020  
Owner (client) Uniform S.p.A., 37046 Minerbe VR (Italy)

Testing of air permeability, resistance to wind load, watertightness



### Watertightness according to EN 1027:2016-03

Project-No. 19-004356-PR05  
Basis EN 1027:2016-03  
Windows and doors - Watertightness - Test method  
Test equipment Pst/020920 - Fenster- und Fassadenprüfstand  
Test specimen Double tilt and turn casement door with opening meeting stile  
Test specimen No. 51857-001  
Date of test 20.10.2020  
Test engineer in charge Maximilian Denkl  
Test engineer Maximilian Denkl

Implementation of tests  
Deviations There have been no deviations from the test method as specified in the standard/basis.

Ambient conditions Temperature 19 °C Air humidity 37,3 % Air pressure 962 hPa  
The ambient conditions are in accordance with the standard/basis requirements.

### Measurement data/Results

Closing condition closed and locked  
Threshold situation without additional floor simulation  
Size of window frame 1500 mm x 2400 mm

Spray method A (Spray angle 24°)

Number of spray nozzles 4  
Water amount 480 l/h  
0,48 m³/h

Initial load was applied before testing.

View of test specimen - watertightness

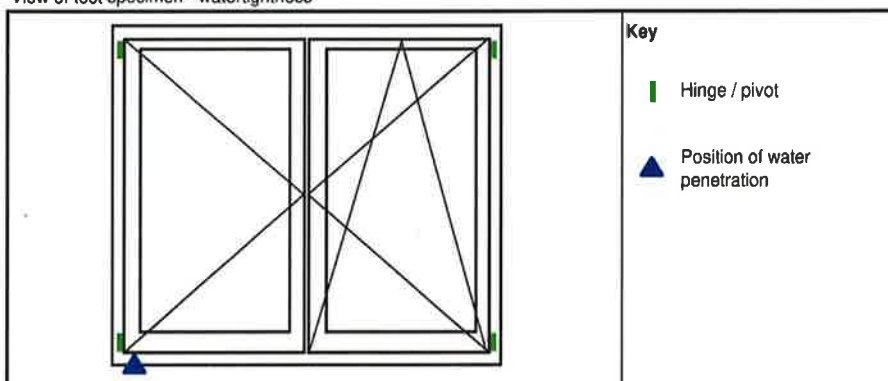


Table: Test

Pressure/Pa	Notice
0	no water penetration
50	no water penetration
100	no water penetration
150	no water penetration

**Test Report**

No. 19-004356-PR05 (PB-A01-02-en-01) dated 27.10.2020  
Owner (client) Uniform S.p.A., 37046 Minerbe VR (Italy)

Testing of air permeability, resistance to wind load, watertightness



200	no water penetration
250	no water penetration
300	no water penetration
450	no water penetration
600	no water penetration
750	no water penetration
900	no water penetration
1050	no water penetration
1200	no water penetration
1350	water penetration after 2 min

No water penetration at up to 1200 Pa detected.

**Comment**

The test was made with maximum hold of hardware

**Test Report**

No. 19-004356-PR05 (PB-A01-02-en-01) dated 27.10.2020  
 Owner (client) Uniform S.p.A., 37046 Minerbe VR (Italy)

Testing of air permeability, resistance to wind load, watertightness

**Resistance to wind load - Safety test according to EN 12211:2016-03**

Project-No. 19-004356-PR05  
 Basis EN 12211:2016-03  
 Windows and doors - Resistance to wind load - Test method  
 Test equipment Pst/020920 - Window and facade test rig  
 Test specimen Double tilt and turn casement door with opening meeting stile  
 Test specimen No. 51857-001  
 Date of test 20.10.2020  
 Test engineer in charge Maximilian DenkI  
 Test engineer Maximilian DenkI

Implementation of tests  
 Deviations There have been no deviations from the test method as specified in the standard/basis.

Ambient conditions Temperature 19 °C Air humidity 37 % Atmospheric pressure 962 hPa  
 The ambient conditions are in accordance with the standard/basis requirements.

**Measurement data/Results****Safety test****Table: Pressure steps**

		Positive wind pressure						Negative wind pressure					
p <sub>3</sub>	Pa	600	1200	1800	2400	3000	xxxx	-600	-1200	-1800	-2400	-3000	xxxx
passed					✓	✓					✓	✓	

Safety test passed at up to p<sub>3</sub> ± 3000 Pa.

**Malfunctions at test specimen**

At the test specimen were no malfunctions detected.

**Comment**

The test was made with maximum hold of hardware

## Test Report

No. 19-004356-PR05 (PB-A01-02-en-01) dated 27.10.2020  
Owner (client) Uniform S.p.A., 37046 Minerbe VR (Italy)

Page 14 of 14

Testing of air permeability, resistance to wind load, watertightness



## 3 Summary

### 3.1 Result

The test results are shown in the measuring data sheet, see item "Detailed results".

### 3.2 Instructions for use

This test/evaluation does not allow any statement to be made on further characteristics of the present structure regarding performance and quality, in particular the effects of weathering and ageing.

The test was performed according to standard and the details for identification of the test specimen are complete; on the basis of this Test Report an "ift-Nachweis" (Evidence) can be issued.

ift Rosenheim  
27.10.2020

A handwritten signature in blue ink that reads 'Thomas Krichbaumer'.

Thomas Krichbaumer  
Deputy Head of Testing Department  
Building Component Testing

A handwritten signature in blue ink that reads 'Denkl'.

Maximilian Denkl  
Operating Testing Officer  
Building Component Testing



**Attachment 1: Description of the test specimen**

Blatt 1 von 4

Test Report

Nr. 19-004356-PR05 (PB-A01-02-en-01) vom 27.10.2020

Inhaber Uniform S.p.A., 37046 Minerbe VR (Italy)  
(Auftraggeber)

Die Beschreibung des geprüften Probekörpers dient der normkonformen Identifizierung des Produkttyps, für den die festgestellten Werte gelten.

Alle \*Mindest-Angaben des Auftraggebers werden vom ift auf Plausibilität geprüft; ggf. festgestellte Abweichungen und/oder ergänzende Feststellungen werden dokumentiert.

The description of the specimen to be tested serves to identify, in conformity with the standards, the product type, for which the values determined will apply.

All \*minimum details provided by the client will be checked for plausibility by ift, any deviations observed and/or additional findings will be documented.

\* Mindestangaben  
\* minimum details

Alle Maßangaben in mm  
All dimensions in mm

Wareneingang-Nr.: 51857-001  
ID of goods received :

ift Mitarbeiter: dem  
ift staff member :

<b>Eigenschaft</b> Characteristic	<b>Angaben des Auftraggebers</b> Information provided by client
<b>Produkt</b> Product	*Double tilt and turn casement door with opening meeting stile
Hersteller Manufacturer	*Uniform spa
Bezeichnung Designation	*uni_one Magis40
Profilsystem Profile system	*uni_one Magis40
Öffnungsart, Öffnungs- richtung Type of opening, opening direction	*Tilt and turn, Active casement DIN right (opening) to the inside, Inactive casement DIN left (opening) to the inside
Rahmenmaterial Frame material	*Wood-Aluminium
Blendrahmenaußenmaß (B x H) Overall frame dimensions (W x H)	*1500x2400mm
Flügelaußenmaß (B x H) Overall casement dimensions (W x H)	*705x2347mm
<b>Blendrahmen</b> Frame member	
Bezeichnung / Typ / Art.-Nr. Designation / type / item no.	*FD675
Rahmenverbindung Frame joint	Butt-jointed
Zusatzprofile (falls vorhanden): Supplementary profiles (if appropriate):	
Bezeichnung Designation	*External aluminium cover profile item n. LA691 Threshold profile at bottom item n. PA288T
Rahmenverbindung Frame joint	*Clipped with item n. LC4
<b>Flügelrahmen</b> Casement member	
Bezeichnung / Typ /	*FD671

Test Report

Nr. 19-004356-PR05 (PB-A01-02-en-01) vom 27.10.2020

Inhaber Uniform S.p.A., 37046 Minerbe VR (Italy)  
(Auftraggeber)

<b>Eigenschaft</b> Characteristic	<b>Angaben des Auftraggebers</b> Information provided by client
<b>Art.-Nr.</b> Designation / type / item no.	
<b>Flügelgewicht (in kg)</b> Casement weight (in kg)	* Approx. 114 kg
<b>Rahmenverbindung</b> Frame joint	* Butt-jointed
<b>Zusatzprofile</b> (falls vorhanden) Supplementary profiles (if appropriate)	
<b>Bezeichnung</b> Designation	* Dummy mullion profile item n. FD673 with overlap end cap item n. LC855 Outer aluminium cover profile item n. LA855, clipped on dummy mullion with LC50/5 External aluminum cover profile item n. LA690, clipped on dummy mullion with LC188 External aluminium cover profile item n. La691, clipped on casement with LC4
<b>Rahmenverbindung</b> Frame joint	* Clipped, sealed with elastic sealant
<b>Falzausbildung</b> Rebate design	
<b>Falzentwässerung</b> Rebate drainage	* Inside rebate: n°8 slots 5x20mm
<b>Druckausgleich</b> Pressure equalisation	* External rebate seal, 100 mm notched at top centre
<b>Falzdichtung außen</b> External rebate seal	
<b>Hersteller / Lieferant</b> Manufacturer / supplier	Trelleborg
<b>Artikelnummer</b> Item no.	* Casement: DE125 Dummy mullion: DE174
<b>Material</b> Material	* EPDM
<b>Eckausbildung</b> Corner design	* Seal on 3 sides, at top mitred and bonded, at bottom butt jointed
<b>Eckausbildung Standflügel</b> Corner design dummy mullion	* At bottom and top butt jointed to overlap end caps
<b>Falzdichtung Mitte</b> Centre rebate seal	
<b>Hersteller / Lieferant</b> Manufacturer / supplier	Schlegel
<b>Artikelnummer</b> Item no.	* DE181: internal rebate seal DE180: external rebate seal
<b>Material</b> Material	* EPDM
<b>Eckausbildung</b> Corner design	* DE180: welded DE181: mitred
<b>Eckausbildung Standflügel</b> Corner design inactive casement	* On three sides, on lock side butt-jointed to dummy mullion profile

**Attachment 1: Description of the test specimen**

Test Report

Nr. 19-004356-PR05 (PB-A01-02-en-01) vom 27.10.2020

Inhaber Uniform S.p.A., 37046 Minerbe VR (Italy)  
(Auftraggeber)



<b>Falzdichtung innen</b> Internal rebate seal	
Hersteller / Lieferant Manufacturer / supplier	Trelleborg
Artikelnummer Item no.	*DE182+DE182-E
Material Material	*EPDM
Eckausbildung Corner design	*Active casement: continuous, corners notched, at top centre butt jointed Inactive casement: on hinge side continuous, corners notched, on lock side butt-end
Eckausbildung Standflügel Corner design inactive casement	*On three sides, on lock side butt-jointed to dummy mullion profile
<b>Füllung</b> Infill panel	IGU
Glasaufbau Glass configuration	*33.1/15/5/15/33.1
Gesamtdicke Total thickness	*47.7mm
<b>Einbau der Füllungen</b> Installation of infill panels	
<b>Verglasungsdichtung außen</b> External glazing gasket	
Hersteller / Lieferant Manufacturer / supplier	Trelleborg
Artikelnummer Item no.	*DE86
Material Material	*EPDM
Eckausbildung Corner design	*Continuous, at top centre butt-jointed
<b>Verglasungsdichtung innen</b> Internal glazing gasket	
Hersteller / Lieferant Manufacturer / supplier	Lohmann
Artikelnummer Item no.	*LCN20-2BT
Material Material	*Double-sided closed cell polyethylene copolymer foam tape
Eckausbildung Corner design	*Mitred and bonded
Hersteller Klebstoff Adhesive manufacturer	*Dow Corning
Typ, Position Type, position	*Bonding on external rebate base
Material Material	*1C adhesive sealant
<b>Glashalteleiste</b> Glazing bead	Glazing without glazing beads
<b>Dampfdruckausgleich</b> Vapour pressure equalisation	*No pressure equalisation

**Attachment 1: Description of the test specimen**

Blatt 4 von 4

Test Report

Nr. 19-004356-PR05 (PB-A01-02-en-01) vom 27.10.2020

Inhaber (Auftraggeber) Uniform S.p.A., 37046 Minerbe VR (Italy)



<b>Beschlag</b> Hardware	* Tilt and turn hardware
<b>Typ</b> Type	* Concealed hardware
<b>Hersteller</b> Manufacturer	* SIEGENIA
<b>Lager</b> Bearings	* Active casement: 1 corner pivot, 1 tilt mechanism pivot Inactive casement: 1 corner pivot, 1 turn mechanism pivot
<b>Anzahl Verriegelungen</b> (wo vorhanden): Number of locking devices (where appropriate):	
<b>Unten</b> At bottom	* 4
<b>Oben</b> At top	* 4
<b>Bandseitig</b> On hinge side	* 4+4
<b>Schließseitig</b> On lock side	* 4
<b>Max. Verriegelungs- abstand</b> Max. locking distance	* 800 mm
<b>Stellung der Verriege- lung</b> Position of locking device	* Locking points under maximum hold
<b>Befestigung des Probekörpers am Montagerahmen / an die Tragkonstruktion</b> Fixing of test specimen to sub- frame / supporting construc- tion	
<b>Material Mon- tagerahmen</b> Material of subframe	* Wooden frame screwed and sealed with extrudable sealant
<b>Ausführung</b> Design	* Spacer blocks towards steel frame on each fixing point
<b>Füllung der Anschlussfuge</b> Infill of installation gap	* Existent, continuous and open from frame profile to steel surround frame

Attachment 2: Representation of product/test specimen

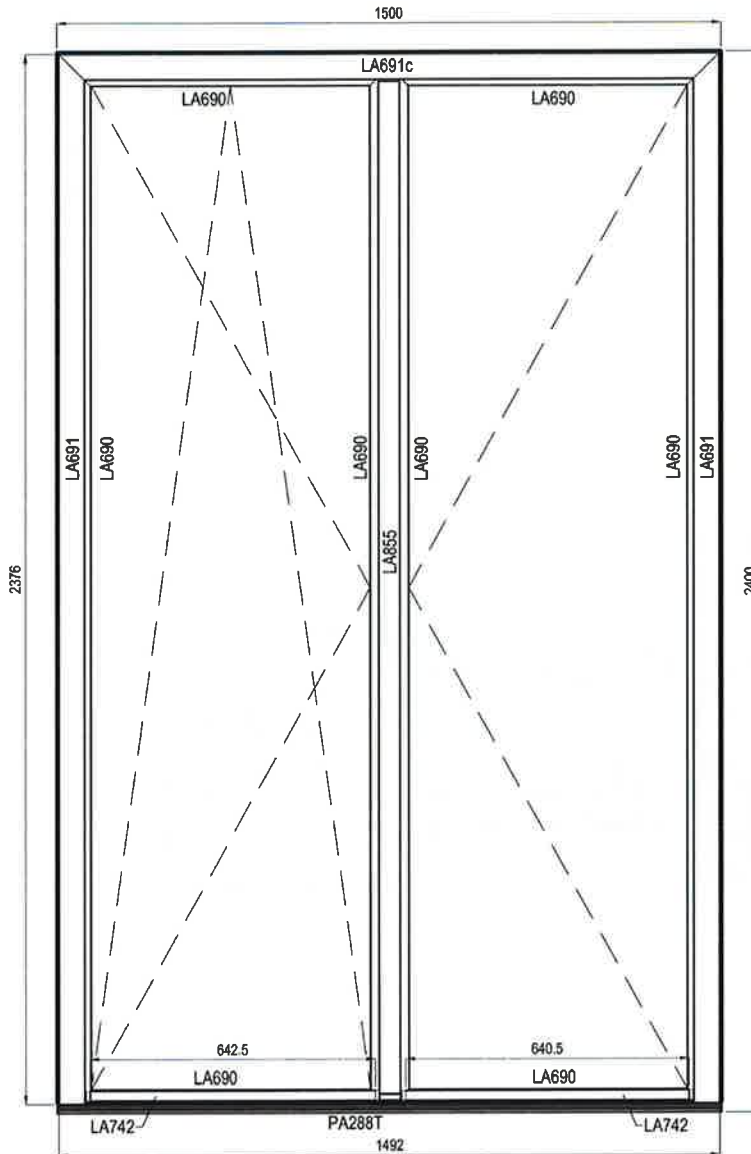
Test Report

no. 19-004356-PR05 (PB-A01-02-en-01) dated 27.10.2020

owner (client) Uniform S.p.A., 37046 Minerbe VR (Italy)



VISTA ESTERNA  
EXTERNAL VIEW



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Scala 1:12

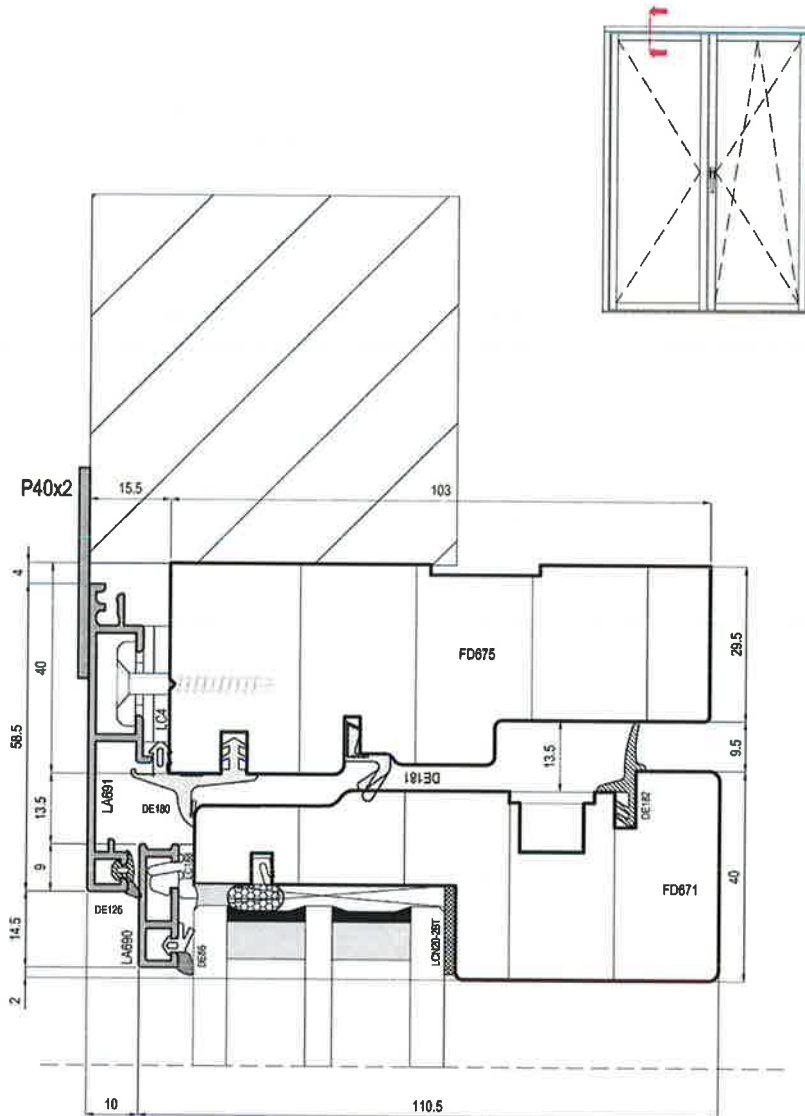


Picture 1 View

Test Report

no. 19-004356-PR05 (PB-A01-02-en-01) dated 27.10.2020

owner (client) Uniform S.p.A., 37046 Minerbe VR (Italy)



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Scala 1:1

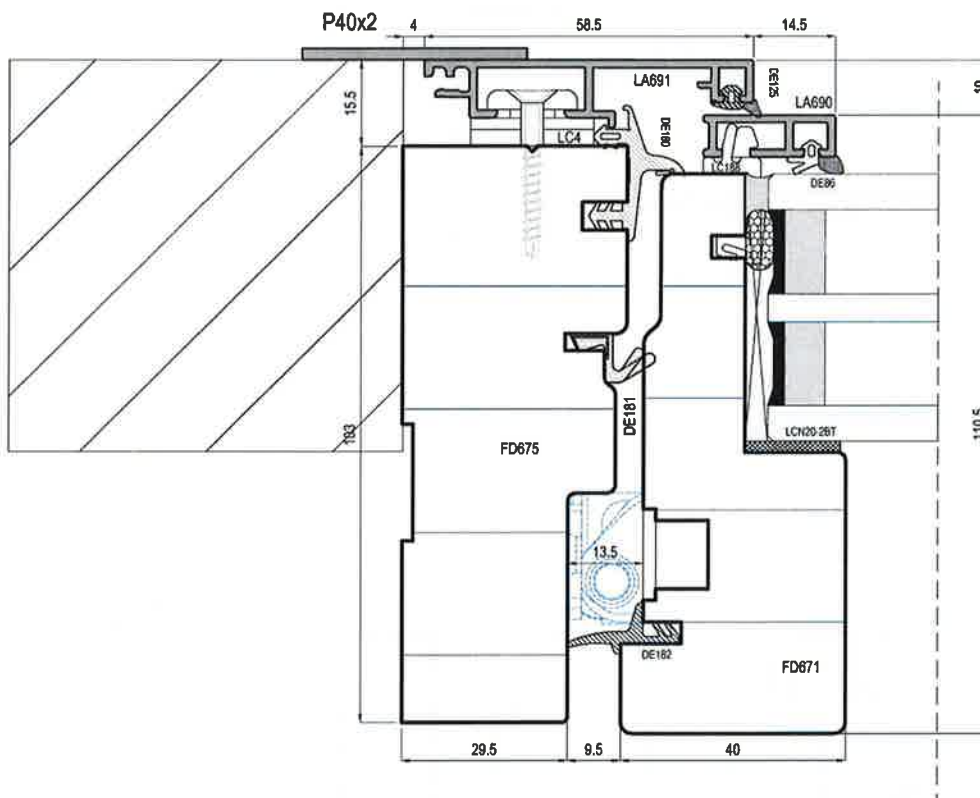
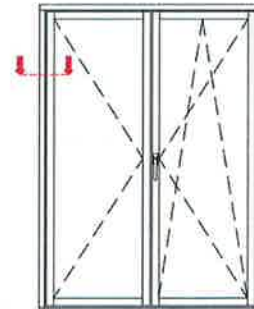
- IT Sezione verticale traverso superiore finestra
- DE Vertikalschnitt Fenster quer oben
- ES Sección vertical travesaño superior de la ventana
- FR Coupe verticale traverse supérieure fenêtre
- UK Vertical section of the window's ledger

Picture 2 Vertical section

Test Report

no. 19-004356-PR05 (PB-A01-02-en-01) dated 27.10.2020

owner (client) Uniform S.p.A., 37046 Minerbe VR (Italy)



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uniform<sup>3</sup>

Scala 1:1

- IT Sezione orizzontale montanti laterali
- DE Horizontalschnitt senkrecht seitlich
- ES Sección horizontal montante lateral
- FR Coupe horizontale montants latéraux
- UK Horizontal section of the lateral jambs

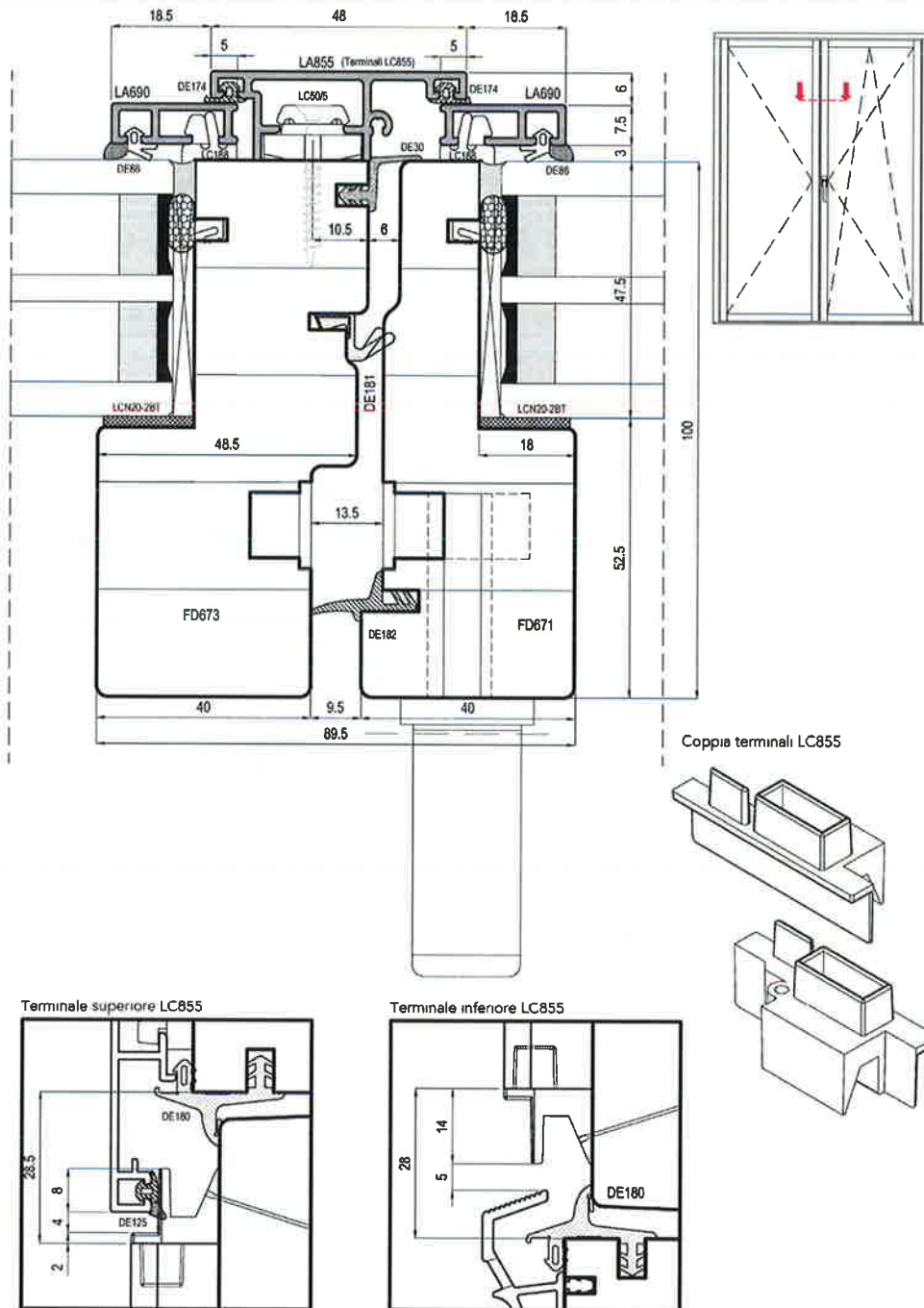
Picture 3 Horizontal section

Attachment 2: Representation of product/test specimen

Test Report

no. 19-004356-PR05 (PB-A01-02-en-01) dated 27.10.2020

owner (client) Uniform S.p.A., 37046 Minerbe VR (Italy)



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uniform

Scala 1:1

- (IT) Sezione orizzontale chiusura centrale
- (DE) Horizontalschnitt Stulpprofil
- (ES) Sección horizontal del cierre central
- (FR) Coupe horizontale fermeture central
- (UK) Horizontal section of the middle clamp

Picture 4 Horizontal section

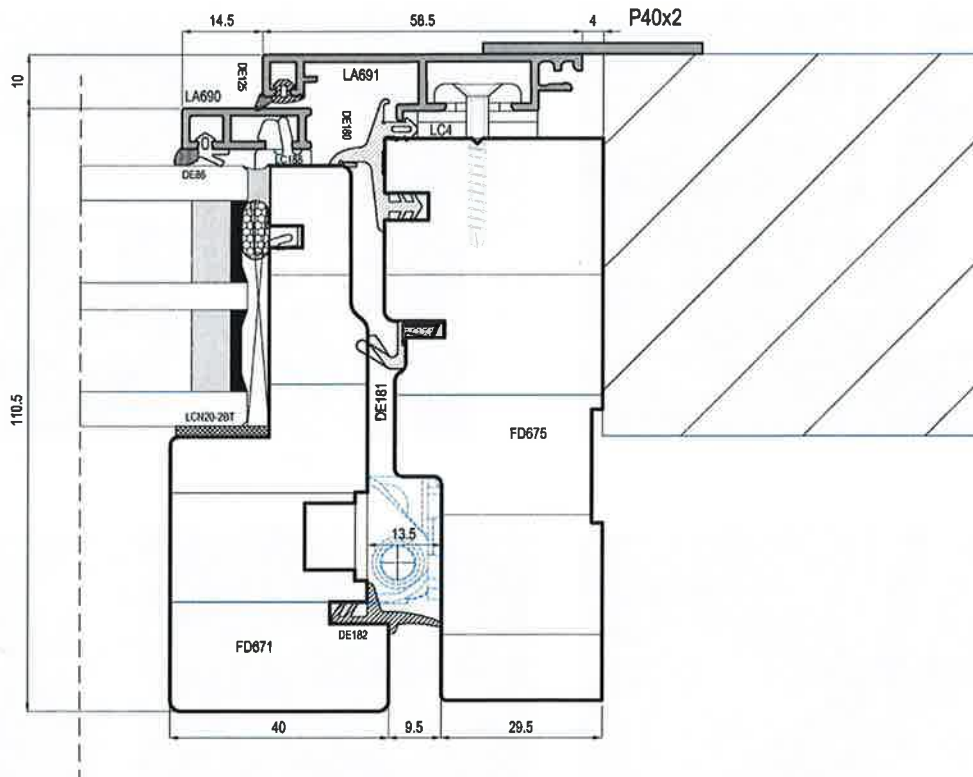
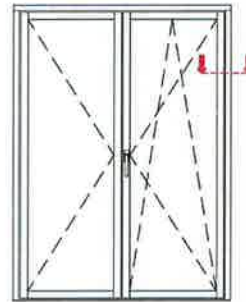


Attachment 2: Representation of product/test specimen

Test Report

no. 19-004356-PR05 (PB-A01-02-en-01) dated 27.10.2020

owner (client) Uniform S.p.A., 37046 Minerbe VR (Italy)



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Scala 1:1

- (IT) Sezione orizzontale montanti laterali
- (DE) Horizontalschnitt senkrecht seitlich
- (ES) Sección horizontal montante lateral
- (FR) Coupe horizontale montants latéraux
- (UK) Horizontal section of the lateral jambs

Picture 5 Horizontal section

**Attachment 3: Photo documentation of test specimen**

Test Report

no. 19-004356-PR05 (PB-A01-02-en-01) dated 27.10.2020

owner (client) Uniform S.p.A., 37046 Minerbe VR (Italy)



Picture 1 View of test specimen



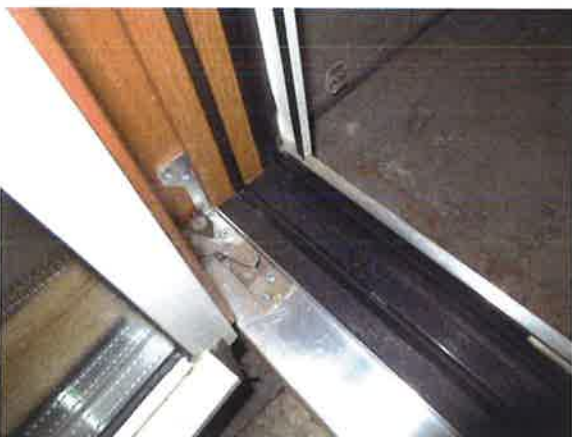
Picture 2 Corner detail frame



Picture 3 Corner design, inactive casement



Picture 4 Stay arm bearing, rebate view, turn-tilt leaf



Picture 5 Corner pivot, rebate view



Picture 6 Casement member, rebate view at the top

**Attachment 3: Photo documentation of test specimen**

Test Report

no. 19-004356-PR05 (PB-A01-02-en-01) dated 27.10.2020

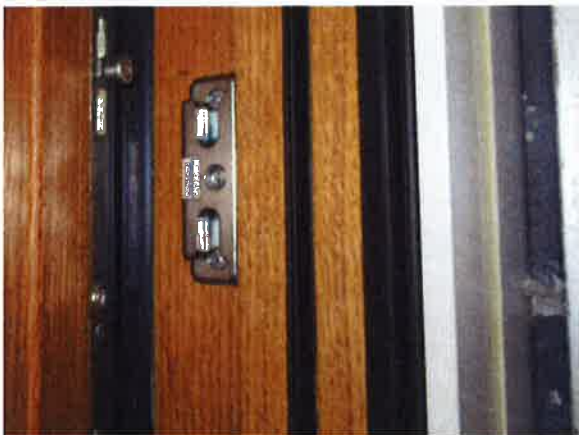
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Picture 7 Locking situation frame member 1



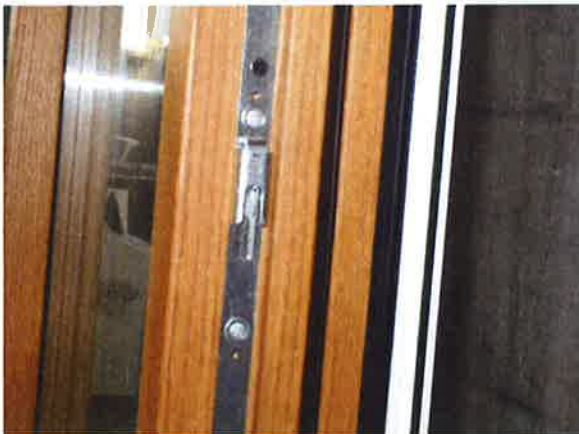
Picture 8 Locking situation casement member 1



Picture 10 Locking situation frame member 2



Picture 11 Locking situation frame member 2+3



Picture 12 Locking situation frame member 3