

Number	19-004356-PR06 (NW-A01-02-en-01)
Owner	Uniform S.p.A. Via dell Agricoltura 36 37046 Minerbe VR Italy
Product	Double tilt and turn window with central opening meeting style
Designation	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 DIN left (opening) to the inside; Overall dimensions (W x H) 150
Special features	The vapour pressure equalisation of the glazing rebate has to be ensured. Material compatibility must be taken into account. 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: E1350**

### Basis \*)

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

Test report: 19-004356-PR06 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.

ift Rosenheim  
29.10.2020



Thomas Stefan, Dipl.-Ing. (FH)  
Head of Testing Department  
Building Component Testing



Maximilian Denk  
Operating Testing Officer  
Building Component Testing

### Identity-Check



[www.ift-rosenheim.de/ift-geprueft](http://www.ift-rosenheim.de/ift-geprueft)  
ID: DF5-70988

# ift-Nachweis

## Klassifizierungsbericht



Nummer	19-004356-PR06 (NW-A01-02-de-01)
Inhaber	Uniform S.p.A. Via dell Agricoltura 36 37046 Minerbe VR Italien
Produkt	Zweiflügeliges Dreh-Drehkippenstermit offenbarem Mittelstück
Bezeichnung	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 1500 mm
Besonderheiten	Der Dampfdruckausgleich des Glasfalzes ist sicherzustellen. Auf die Verträglichkeit der eingesetzten Materialien ist zu achten. 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: E1350**

ift Rosenheim  
29.10.2020

Thomas Stefan, Dipl.-Ing. (FH)  
Prüfstellenleiter  
Bauteilprüfung

Maximilian Denk  
Prüfingenieur  
Bauteilprüfung

### Grundlagen \*)

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

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

Prüfbericht: 19-004356-PR06 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: DF5-70988

# Test Report



Number	19-004356-PR06 (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 window with opening meeting stile</b>
Designation	Shipping name: <b>uni_one Magis40</b>
Details	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 1500 mm</b>
Special features	The vapour pressure equalisation of the glazing rebate has to be ensured. Material compatibility must be taken into account. 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 (13 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-PBO-4390-en/ (01.11.2019)

## Test Report

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No. 19-004356-PR06 (PB-A01-02-en-01) dated 29.10.2020  
Owner (client) Uniform S.p.A., 37046 Minerbe VR (Italy)

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-PK06 / WE: 51856-001

### 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

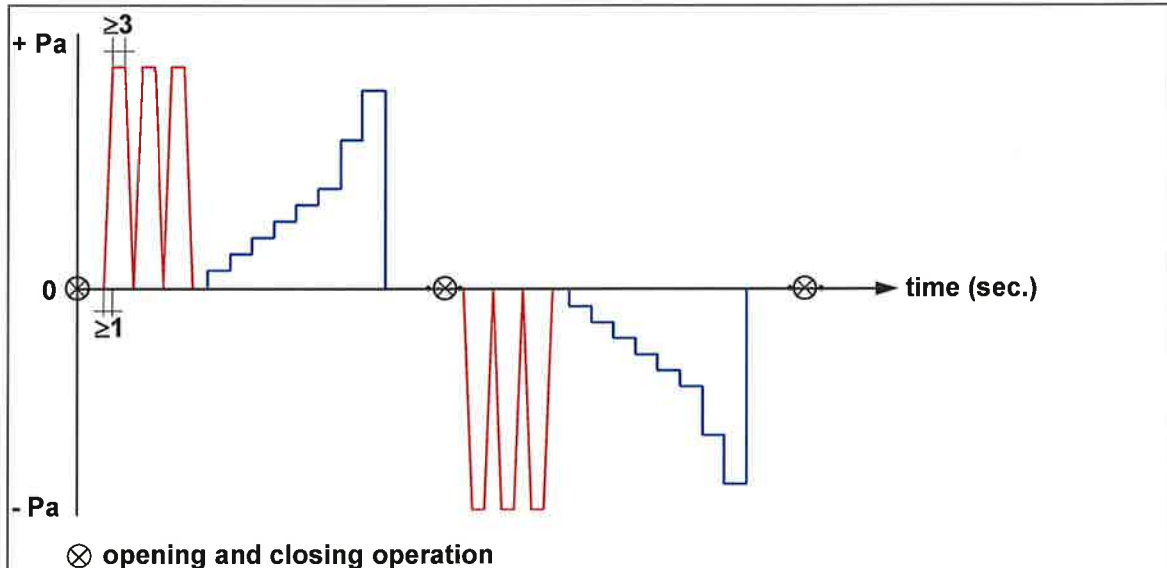


Illustration Test sequence for air permeability

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 p1. The test specimen was exposed to three pressure pulses  $Dp1 + 10\%$ . This was followed by determination of the frontal deflection of test specimen for each pressure step when exposed to positive test pressure  $Dp1$  and negative test pressure  $-Dp1$ . Then the test specimen was subjected to 50 cycles including alternating positive and negative pressures of  $\pm Dp2 = Dp1 - 50\%$ .

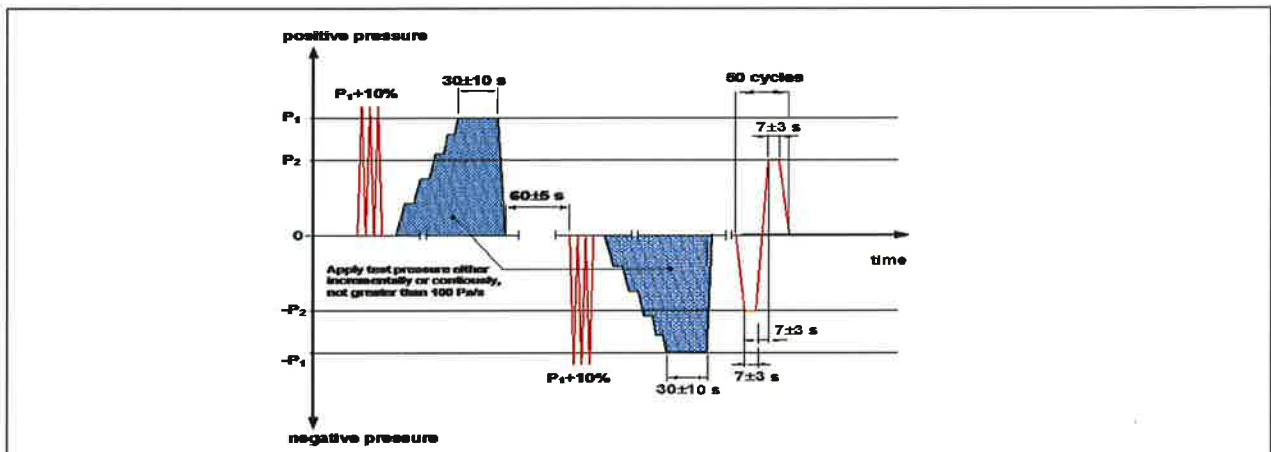


Illustration Test sequence for resistance to wind load - Deflection and alternating positive/negative pressures

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.

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.

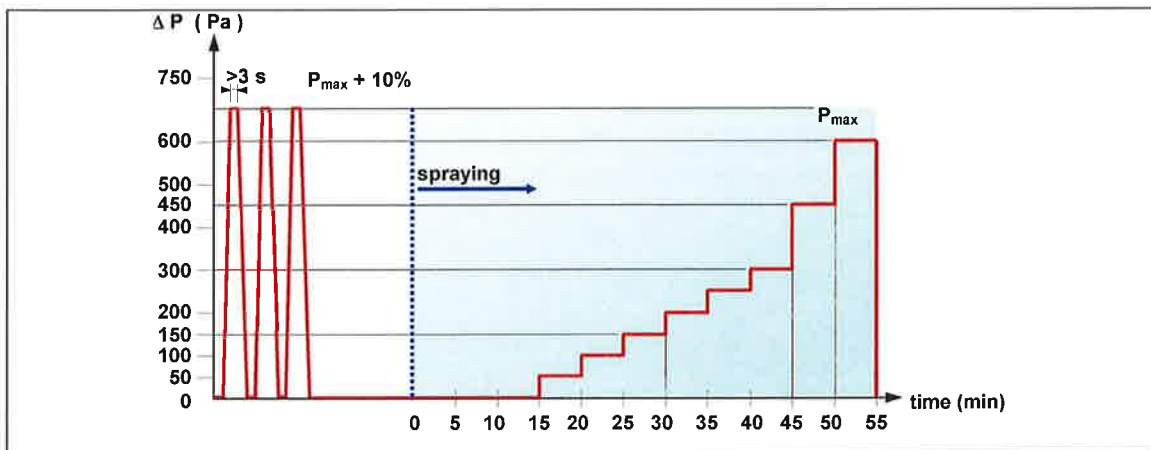


Illustration Test sequence for watertightness

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  $\Delta p_3 = \Delta p_1 + 50 \%$ .

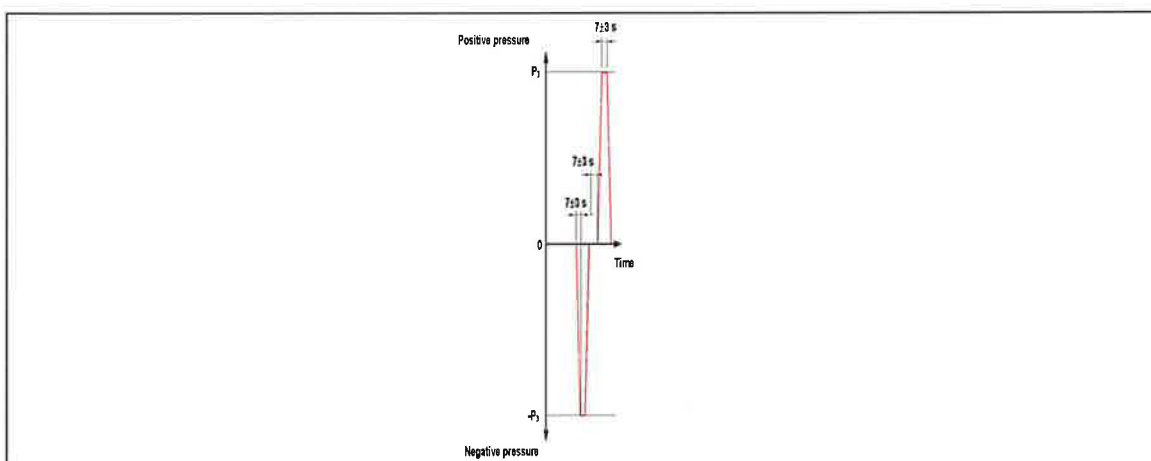


Illustration Test sequence for resistance to wind load - safety test

## Test Report

No. 19-004356-PR06 (PB-A01-02-en-01) dated 29.10.2020  
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-PR06  
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 window with opening stile  
Test specimen No. 51856-001  
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 19,2 °C Air humidity 40 % 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 1500 mm  
Rated joint length of active casement 706 mm x 1442 mm  
Rated joint length of inactive casement 706 mm x 1442 mm  
Area of test specimen 2,25 m<sup>2</sup>  
Length of opening joints 7,15 m

Table: Measurement of operating forces


Individ. measured result	1	2	3	Average value
In Nm	4,8	4,7	4,5	4,6




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

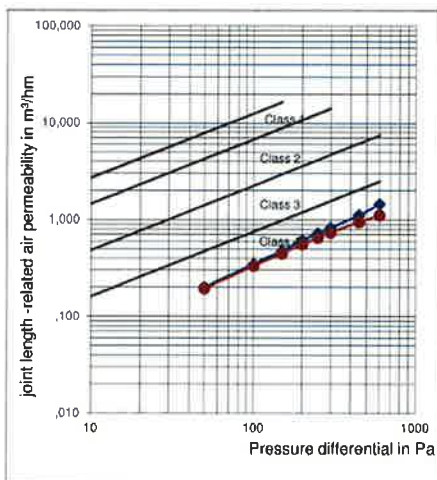
Measured results at positive wind pressure 	Pressure differential Pa	50	100	150	200	250	300	450	600
	Flow rate (volume) m³/h	1,4	2,5	3,4	4,4	5,2	5,9	8,0	10,4
	Joint length-related m³/hm	0,20	0,35	0,48	0,61	0,72	0,82	1,12	1,45
	Overall area-related m³/hm²	0,63	1,11	1,51	1,94	2,29	2,61	3,56	4,60

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

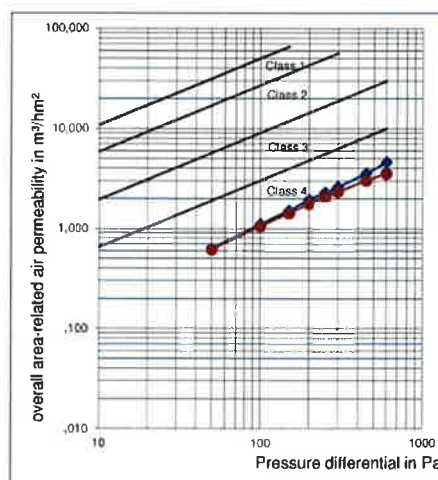
Measured results at negative wind pressure 	Pressure differential Pa	50	100	150	200	250	300	450	600
	Flow rate (volume) m³/h	1,4	2,4	3,2	4,0	4,6	5,2	6,8	8,0
	Joint length-related m³/hm	0,19	0,33	0,45	0,55	0,65	0,73	0,95	1,11
	Overall area-related m³/hm²	0,62	1,06	1,42	1,76	2,06	2,33	3,02	3,54

**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	1,4	2,4	3,3	4,2	4,9	5,6	7,4	9,2
	Joint length-related m³/hm	0,2	0,3	0,5	0,6	0,7	0,8	1,0	1,3
	Overall area-related m³/hm²	0,6	1,1	1,5	1,9	2,2	2,5	3,3	4,1



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



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

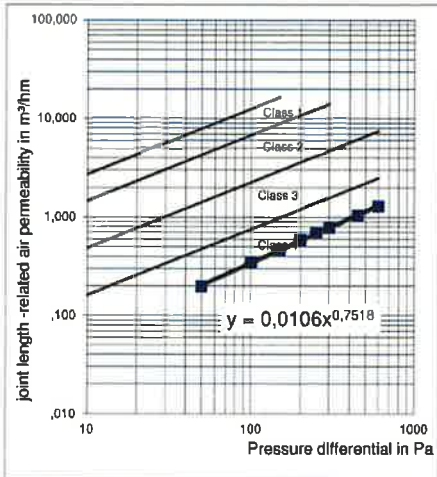


**Test Report**

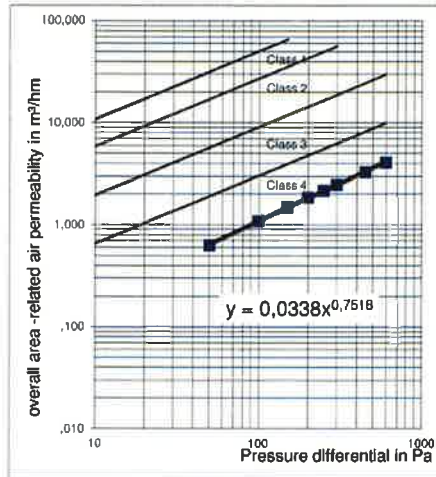
No. 19-004356-PR06 (PB-A01-02-en-01) dated 29.10.2020  
 Owner (client) Uniform S.p.A., 37046 Minerbe VR (Italy)



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 = 0,34 m³/hm
Reference air permeability related to overall area	Q100 = 1,08 m³/hm²

## Test Report

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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

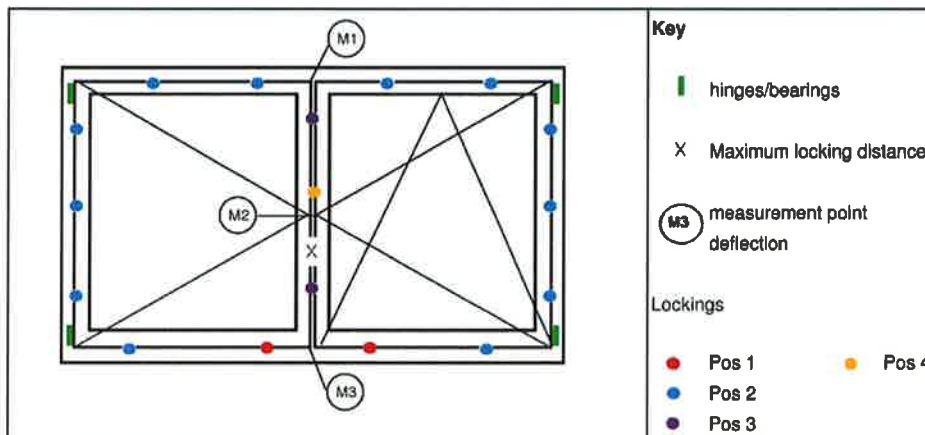
**Project-No.** 19-004356-PR06  
**Basis** EN 12211:2016-03  
Windows and doors - Resistance to wind load - Test method  
**Test equipment** Pst/020920 - Window and facade test rig  
**Test specimen** Double tilt and turn window with opening stile  
**Test specimen No.** 51856-001  
**Date of test** 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 19,2 °C Air humidity 40 % Air pressure 962 hPa  
The ambient conditions are in accordance with the standard/basis requirements.

### Measurement data/Results

Closing condition



**Test Report**

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Testing of air permeability, resistance to wind load, watertightness



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

Table: Maximum deflection for classification at effective span  $l = 1442$  mm

Class		maximum permissible relative deflection in mm
A	( $l/150$ )	9.6
B	( $l/200$ )	7.2
C	( $l/300$ )	4.8

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					2.2					2.7
	M2 in mm					3.1					3.5
	M3 in mm					2.1					2.3
	$f_{rel}$ in mm					1.0					1.0
	$l/n_{rel}$					1449					1471

Table: Permanent deformation measured at 0 Pa after 60 seconds

		Positive pressure	Negative pressure
		M1 in mm	0.0
Permanent deflection	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.

**Test Report**

No. 19-004356-PR06 (PB-A01-02-en-01) dated 29.10.2020  
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-PR06  
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 window with opening stile  
Test specimen No. 51856-001  
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 19,2 °C Air humidity 40 % 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	1500 mm
Rated joint length of active casement	706 mm	x	1442 mm
Rated joint length of inactive casement	706 mm	x	1442 mm
Area of test specimen	1,23 m <sup>2</sup>		
Length of opening joints	4,44 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.

**Test Report**

No. 19-004356-PR06 (PB-A01-02-en-01) dated 29.10.2020  
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-PR06  
**Basis** EN 1027:2016-03  
Windows and doors - Watertightness - Test method  
**Test equipment** Pst/020920 - Fenster- und Fassadenprüfstand  
**Test specimen** Double tilt and turn window with opening stile  
**Test specimen No.** 51856-001  
**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 19,2 °C Air humidity 40 % Air pressure 962 hPa  
The ambient conditions are in accordance with the standard/basis requirements.

**Measurement data/Results**

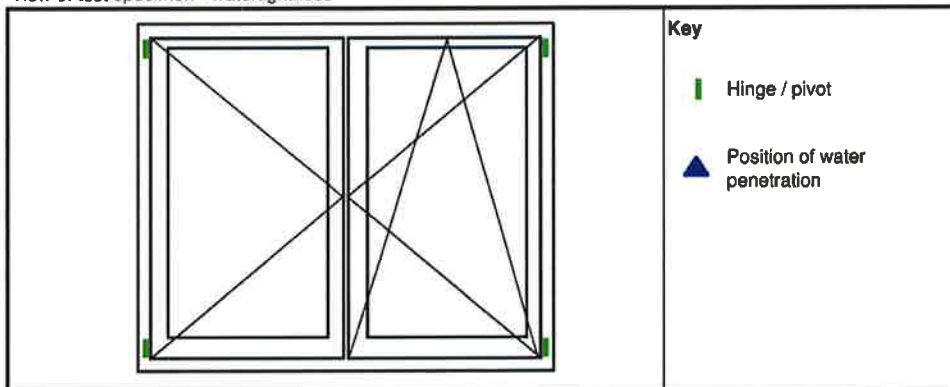
**Closing condition** closed and locked  
**Threshold situation** without additional floor simulation  
**Size of window frame** 1500 mm x 1500 mm

**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



**Test Report**

No. 19-004356-PR06 (PB-A01-02-en-01) dated 29.10.2020  
Owner (client) Uniform S.p.A., 37046 Minerbe VR (Italy)

Testing of air permeability, resistance to wind load, watertightness

**Table: Test**

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

No water penetration at up to 1350 Pa detected.

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 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-PR06  
 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 window with opening stile  
 Test specimen No. 51856-001  
 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 19,2 °C Air humidity 40 % Air pressure 962 hPa  
 The ambient conditions are in accordance with the standard/basis requirements.

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

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

Safety test passed at up to p<sub>3</sub> ± 0 Pa.

**Malfunctions at test specimen**

At the test specimen were no malfunctions detected.

## Test Report

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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  
29.10.2020

A handwritten signature in blue ink, appearing to read 'Thomas Stefan'.

Thomas Stefan, Dipl.-Ing. (FH)  
Head of Testing Department  
Building Component Testing

A handwritten signature in blue ink, appearing to read 'Denkl'.

Maximilian Denkl  
Operating Testing Officer  
Building Component Testing



## Test Report

no. 19-004356-PR06 (PB-A01-02-en-01) dated 29.10.2020  
 owner (client) Uniform S.p.A., 37046 Minerbe VR (Italy)



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.: 51856-001  
 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 window 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, DIN right inward opening
Rahmenmaterial Frame material	*Wood-Aluminium
Blendrahmenaußenmaß (B x H) Overall frame dimensions (W x H)	*1500 mm x 1500mm
Flügelaußenmaß (B x H) Overall casement dimensions (W x H)	*706 mm x 1442mm
<b>Blendrahmen</b> Frame member	
Bezeichnung / Typ / Art.-Nr. Designation / type / item no.	*FD675
Rahmenverbindung Frame joint	*Countered, bonded and screwed
Zusatzprofile (falls vorhanden): Supplementary profiles (if appropriate):	
Bezeichnung Designation	*LA691
Rahmenverbindung Frame joint	*Clipped with LC4

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

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Test Report

no. 19-004356-PR06 (PB-A01-02-en-01) dated 29.10.2020

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



<b>Flügelrahmen</b> Casement member	
Bezeichnung / Typ / Art.-Nr. Designation / type / item no.	*FD671
Flügelgewicht (in kg) Casement weight (in kg)	*Approx. 70 kg
Rahmenverbindung Frame joint	*Countered, bonded and screwed
Zusatzprofile (falls vorhanden) Supplementary profiles (if appropriate)	
Bezeichnung Designation	*Dummy mullion profile item n. FD673 with overlap end caps item n. LC855 Outer aluminium cover profile item n. LA855, clipped on dummy mullion with LC50/5 Outer aluminium cover profile item n. LA690, clipped on dummy mullion with LC188 Outer aluminium cover profile item n. LA691, clipped on dummy mullion with LC4
Rahmenverbindung Frame joint	*Clipped
<b>Falzausbildung</b> Rebate design	
Falzentwässerung Rebate drainage	*Inside rebate: n° 8 slots 5x20mm
Druckausgleich Pressure equalisation	*External rebate seal notche
<b>Falzdichtung außen</b> External rebate seal	
Hersteller / Lieferant Manufacturer / supplier	Trelleborg
Artikelnummer Item no.	*Casement art n. DE125 Dummy mullion art. N. DE174
Material Material	*EPDM
Eckausbildung Corner design	*Mitred and bonded
Eckausbildung stulp Corner design central meeting style	*At bottom and top butt jointed on overlaps end caps
<b>Falzdichtung Mitte</b> Centre rebate seal	
Hersteller / Lieferant Manufacturer / supplier	Schlegel
Artikelnummer Item no.	*DE181:inner rebate seal DE180:outer rebate seal
Material Material	*EPDM
Eckausbildung Corner design	*DE180: Vulcanised frame DE181:mitred

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<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 sash: continuous, bonded with shaped corner pieces, at top centre butt jointed Inactive sash: on hinge side continuous, bonded with shaped corner pieces, lock side butt-ended
Füllung Infill panel	IGU
Glasaufbau Glass configuration	*33.1/15/5/15/33.1
Gesamtdicke Total thickness	*47,7mm
<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 tape composed of closed cell polyethylene copolymer foam
Eckausbildung Corner design	*Continuous, at top centre butt-jointed
Glasklebung (falls vorhanden) Glass bonding (if appropriate)	
Hersteller Klebstoff Adhesive manufacturer	*Dow Corning
Typ, Position Type, position	*Bonding on outer rebate base *) *) Material compatibility must be taken into account.
Material Material	*1c Bonding sealant
Glashalteleiste Glazing bead	Glazing without glazing bead

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

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Dampfdruckausgleich Vapour pressure equalisation	*Without vapour pressure equalisation
Beschlag Hardware	*Tilt and turn hardware
Typ Type	*Concealed hardware
Hersteller Manufacturer	*SIEGENIA
Lager Bearings	*Active sash: 1 corner bearing, 1 tilt mechanism pivot Inactive sash: 1 corner bearing, 1 turn mechanism pivot
Anzahl Verriegelungen (wo vorhanden): Number of locking devices (where appropriate):	
Unten At bottom	*Active sash: 2 Inactive sash: 2
Oben At top	*Active sash: 2 Inactive sash: 2
Bandseitig On hinge side	*Active sash: 3 Inactive sash: 3
Schließseitig On lock side	*3
Max. Verriegelungs- abstand Max. locking distance	*720
Stellung der Verriegelung Position of locking device	*Locking points under maximum hold
Befestigung des Probekörpers am Montagerahmen / an die Tragkonstruktion Fixing of test specimen to sub- frame / supporting construc- tion	
Material Mon- tagerahmen Material of subframe	*Wooden frame screwed and sealed with extrudable sealant
Ausführung Design	*Spacer blocks towards steel frame on each fixing point
Füllung der Anschlussfuge Infill of installation gap	*Existent, continuous and open from frame profile to steel surround frame

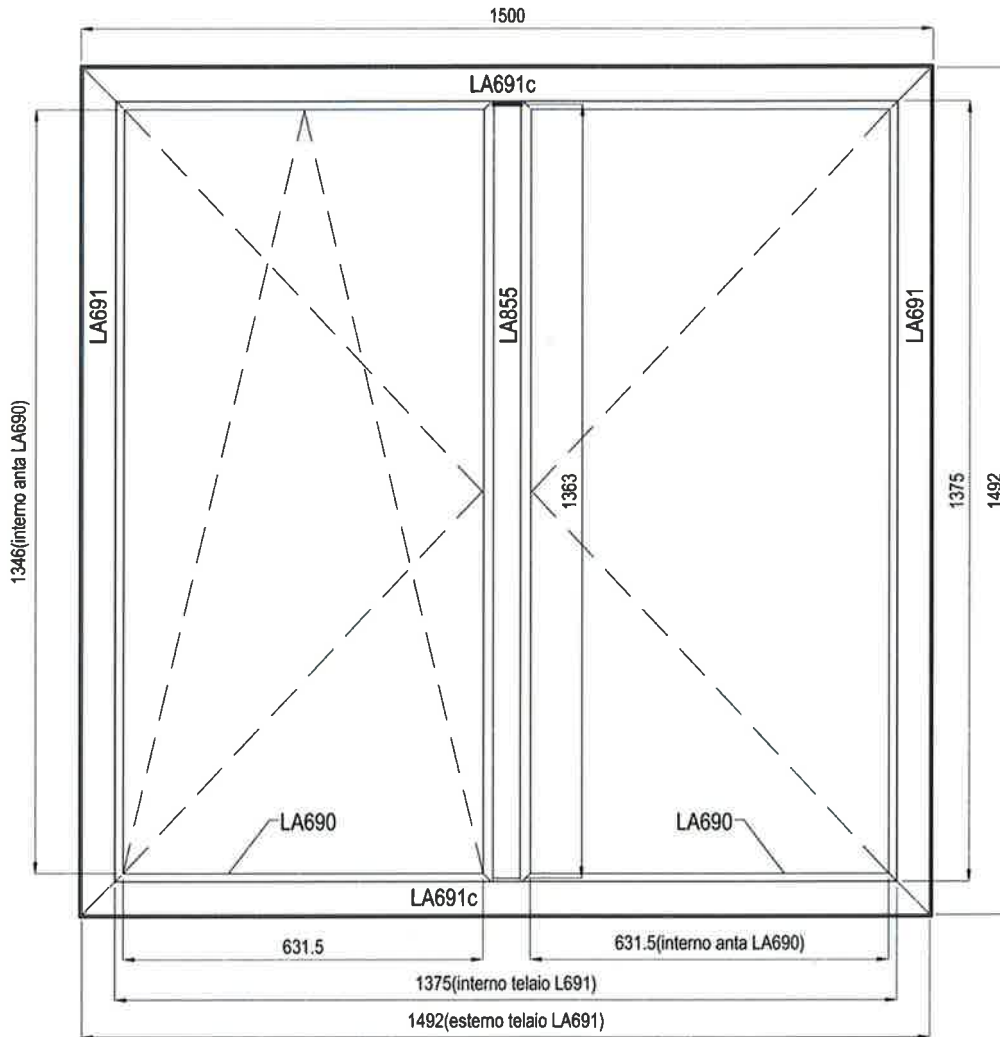
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VISTA ESTERNA



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Scala 1:10



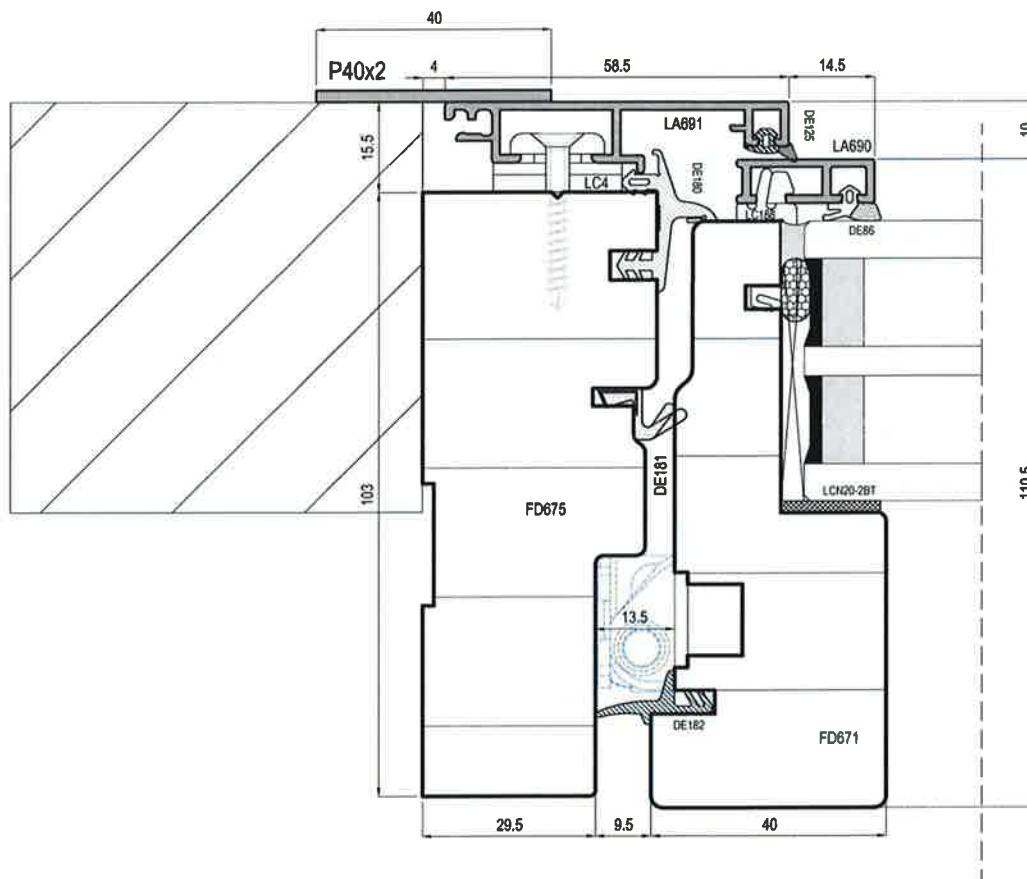
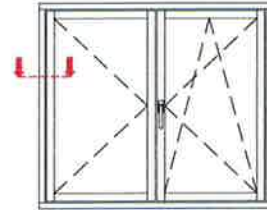
Picture 1 View

**Attachment 2: Representation of product/test specimen**

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Scale 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

Attachment 2: Representation of product/test specimen

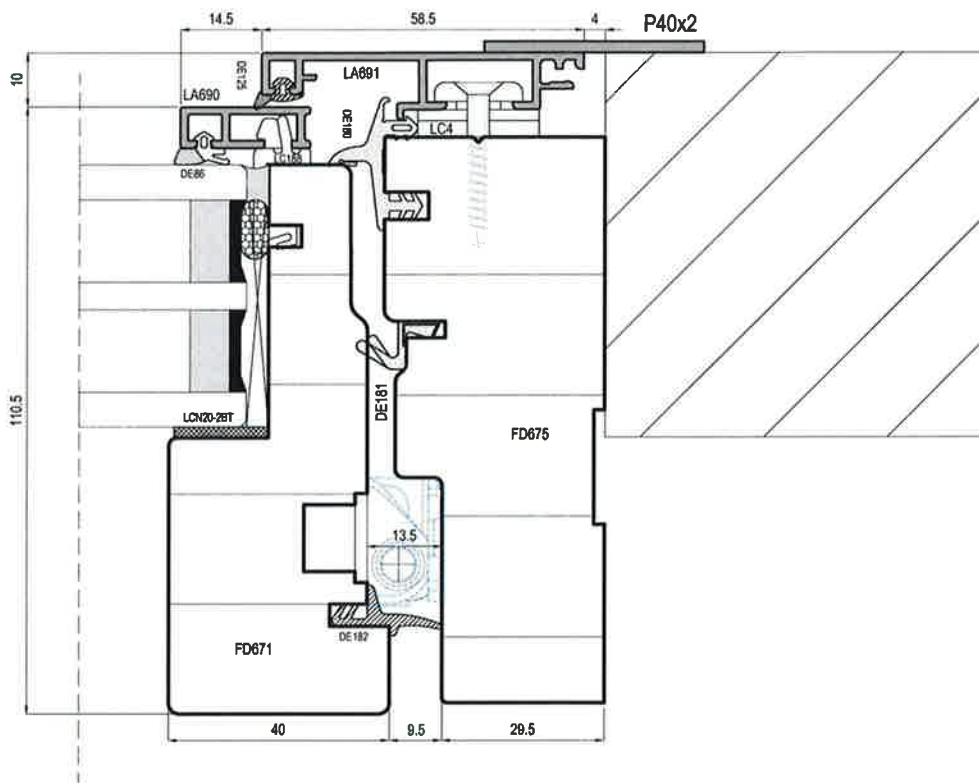
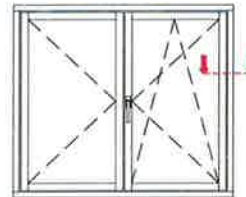
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Picture 2 Horizontal section



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Scala 1:1

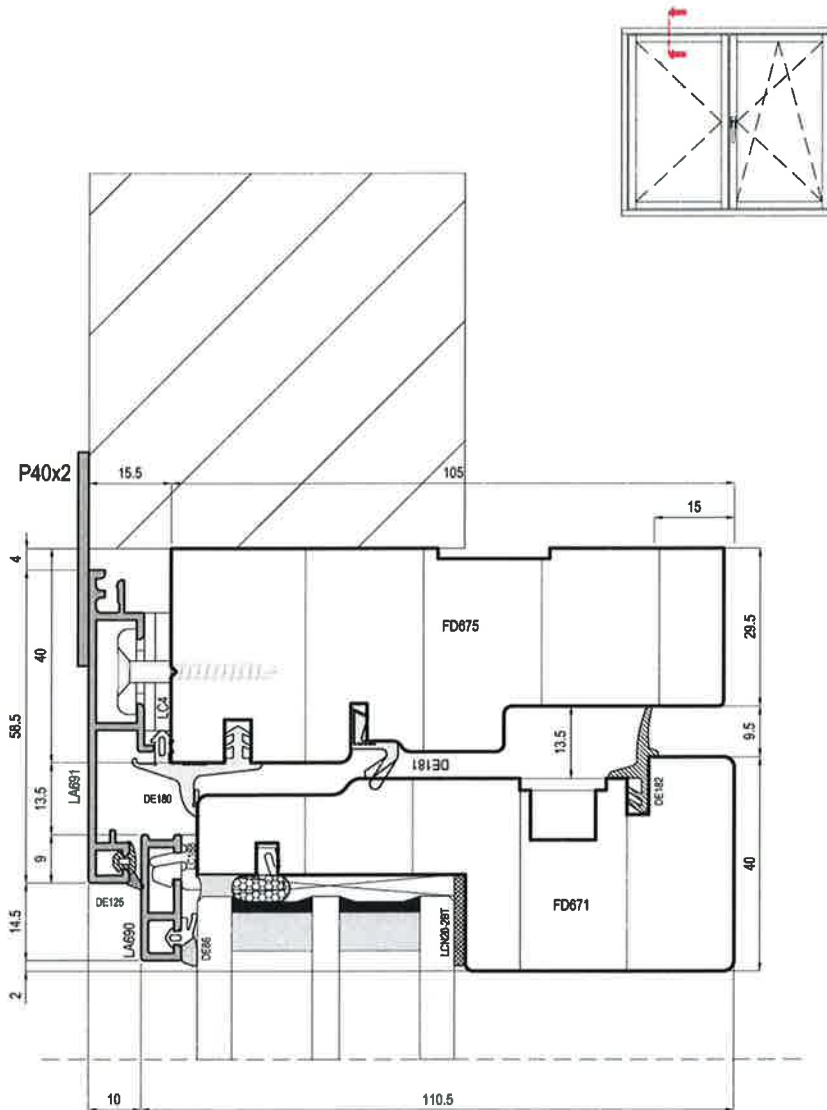
- (IT) Sezione orizzontale montanti laterali
- (DE) Horizontalschnitt senkrecht seitlich
- (ES) Sección horizontal montante lateral
- (FR) Coupe horizontale montants latéraux
- (UK) Horizontal section of the lateral jambs

Picture 3 Horizontal section

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Scala 1:1

- (IT) Sezione verticale traverso superiore finestra
- (DE) Vertikalschnittl 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 4 Vertical section

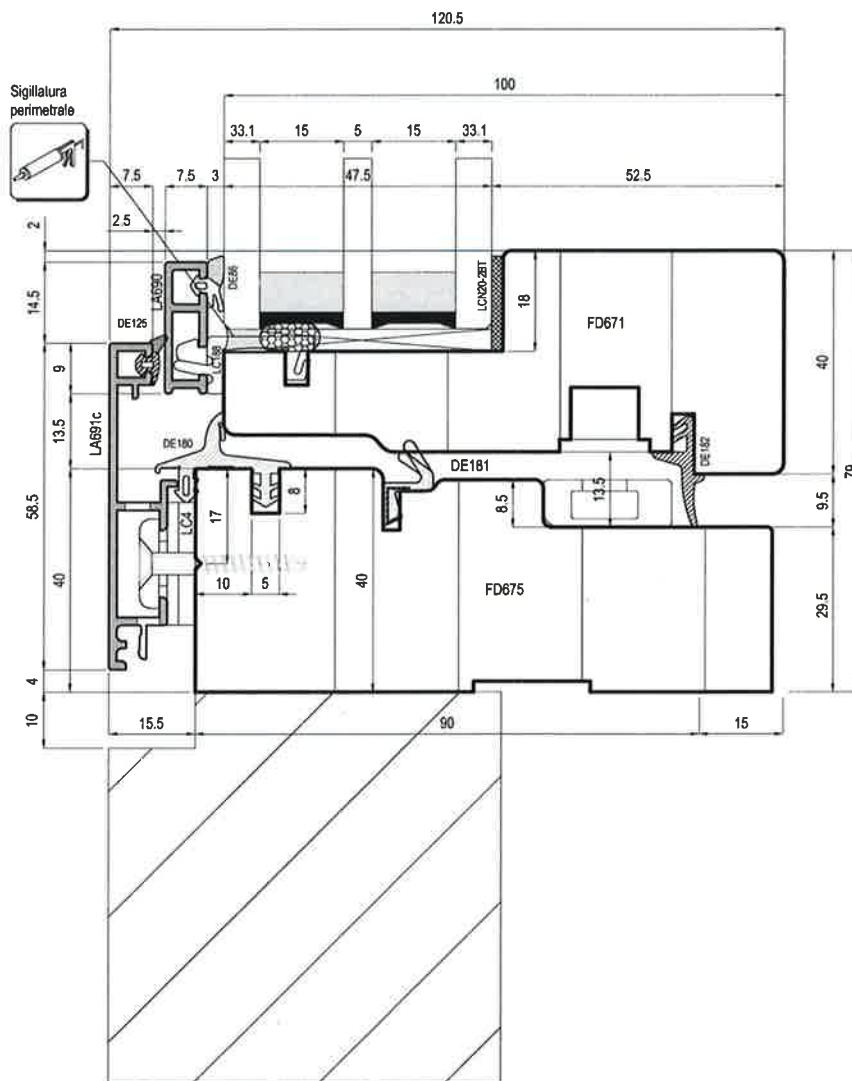
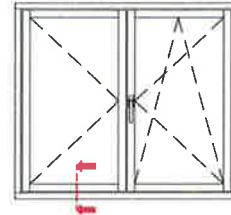


Attachment 2: Representation of product/test specimen

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Scala 1:1

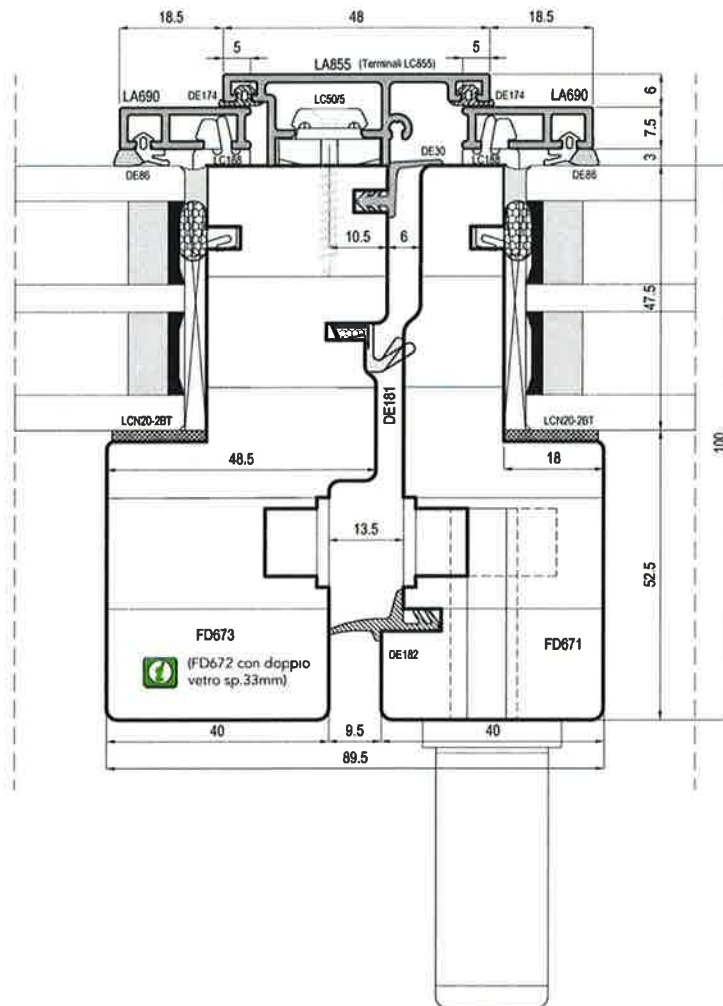
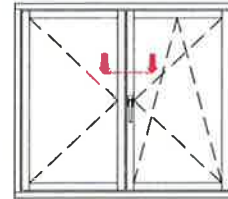
- (IT) Sezione verticale traverso inferiore finestra
- (DE) Vertikalschnitt Fenster quer unten
- (ES) Sección vertical travesaño inferior de la ventana
- (FR) Coupe verticale traverse inférieure fenêtre
- (UK) Vertical section of the window's lower ledger

Picture 5 Vertical section

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Scala 1:1

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

Picture 6 Vertical section

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

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Picture 1 View of test specimen



Picture 2 Internal rebate seal



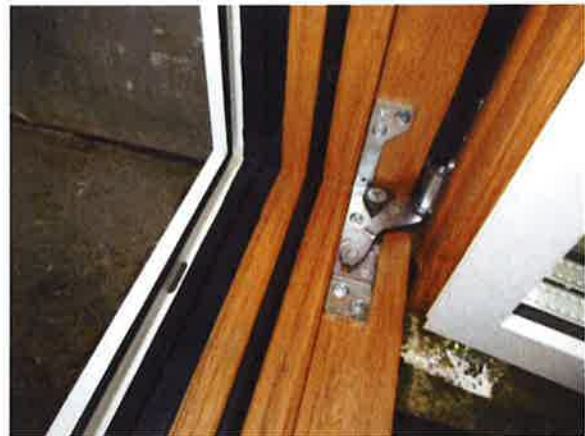
Picture 3 Corner design, active frame



Picture 4 Corner design, inactive frame



Picture 5 Stay arm bearing, turn-tilt leaf



Picture 6 Corner pivot, rebate view

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

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Picture 7 Frame member, rebate view



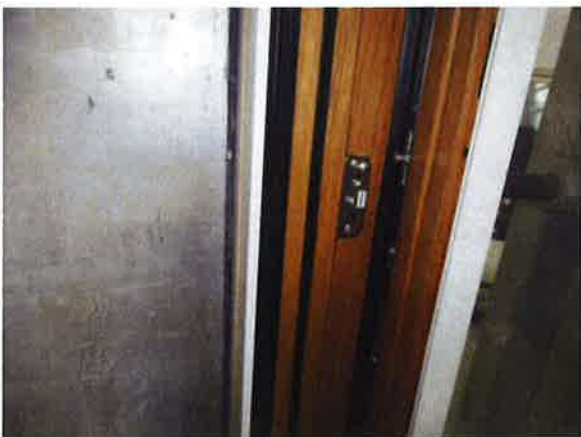
Picture 8 Casement member, rebate view



Picture 9 Locking situation frame member 1



Picture 10 Locking situation casement member 1



Picture 11 Locking situation 2



Picture 12 Locking situation frame member 3

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

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Picture 13 Locking situation casement member 3



Picture 14 Locking situation frame member 4



Picture 15 Locking situation frame member 4