SCHÜCO

Schüco Window System TropTec™ AW 40.NI

General System Information

Contents

Schüco TropTec™ AW 40.NI
The outward-opening Schüco TropTec™ AW 40.NI window system is developed to meet architectural requirements with basic depth of 40 mm.
The system offers convenient fabrication and is simple to operate.
A wide range of openings for both private homes and commercial properties.

This edition supersedes the previous documentation for Schüco TropTec™ AW 40.NI, issued October 2015.

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Technical properties

Example for Schüco TropTec™ AW 40.NI

An ideal choice thanks to an elegant appearance with narrow face widths. The cost-effective profile range is modular and allows a wide range of designs with a manageable amount of profiles.

Side-hung, projected side-hung, projected top-hung and double-vent window (SH/SH) opening options are available. Single-point locking with handles or multi-point locking with espagnolettes can be selected as locking options.

A construction designed for minimal tool usage and the simplest possible production guarantees excellent fabrication quality. In doing so, Schüco gives the fabricator extensive documentation with easy-to-understand step-by-step assembly instructions.

Schüco TropTec™ AW 40.NI can withstand high wind loads and is watertight up to 600 Pa (class 9A in accordance with EN 1027/EN 12208), meaning that installation in exposed locations is possible. The whole system is tested and certified for its properties.

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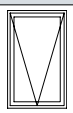
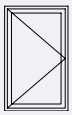
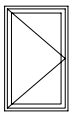
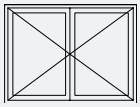
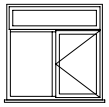
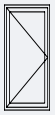
Product benefits

Schüco TropTec™ AW 40.NI

- Non-insulated aluminum window system with a narrow face width of 74 mm
- Outward opening aluminum window with 40 mm basic depth
- Wide range of outward opening types:
  - » projected side hung,
  - » side hung,
  - » projected top hung
  - » double vent
- Aluminium window system with concealed fittings
- Maximum height up to 1800 mm for projected top hung windows and 2400 mm for side hung windows
- Maximum width up to 1500 mm

Options of Schüco TropTec™ AW 40.NI

- Single-point and multi-point locking
- Choice of side-hung with butt hinge or friction stay
- Solution for a double vent window
- Solution for a Bay Window design
- Optional façade integrations
- Solution for a window corner
- Optional top / bottom light
- New handle options
- Glazing thickness of single and double glazing 4 mm - 26 mm

Tests and standards	Schüco TropTec™ AW 40.NI		
Type of Test unit	**Standards**	**Class**	
	Air permeability in accordance with EN 12207 and AAMA 101 / ASTM E 283	3	
	Water tightness in accordance with EN 1027 / EN 12208 and AAMA 101 / ASTM E 331	E1500	1500 Pa
	Wind load resistance in accordance with EN 12210 and AAMA TIR A11-A15 / ASTM E 330	C5/B5	2000 Pa
 with side-hung stay	Air permeability in accordance with EN 12207 and AAMA 101 / ASTM E 283	4	
	Water tightness in accordance with EN 1027 / EN 12208 and AAMA 101 / ASTM E 331	E1200	1200 Pa
	Wind load resistance in accordance with EN 12210 and AAMA TIR A11-A15 / ASTM E 330	C5/B5	2000 Pa
 with hinge	Air permeability in accordance with EN 12207 and AAMA 101 / ASTM E 283	4	
	Water tightness in accordance with EN 1027 / EN 12208 and AAMA 101 / ASTM E 331	E1200	1200 Pa
	Wind load resistance in accordance with EN 12210 and AAMA TIR A11-A15 / ASTM E 330	C3/B3	1200 Pa
	Air permeability in accordance with EN 12207 and AAMA 101 / ASTM E 283	4	
	Water tightness in accordance with EN 1027 / EN 12208 and AAMA 101 / ASTM E 331	9A	600 Pa
	Wind load resistance in accordance with EN 12210 and AAMA TIR A11-A15 / ASTM E 330	C3/B3	1200 Pa
	Air permeability in accordance with EN 12207 and AAMA 101 / ASTM E 283	4	
	Water tightness in accordance with EN 1027 / EN 12208 and AAMA 101 / ASTM E 331	E1200	1200 Pa
	Wind load resistance in accordance with EN 12210 and AAMA TIR A11-A15 / ASTM E 330	C3/B3	1200 Pa
	Air permeability in accordance with EN 12207 and AAMA 101 / ASTM E 283	4	
	Water tightness in accordance with EN 1027 / EN 12208 and AAMA 101 / ASTM E 331	E750	750 Pa
	Wind load resistance in accordance with EN 12210 and AAMA TIR A11-A15 / ASTM E 330	C3/B3	1200 Pa

Fulfillment of anti-corrosion class 4 (240 h) according to DIN EN 1670.

	Tests and standards	
 154 810	Air permeability in accordance with EN 12207 and AAMA 101 / ASTM E 283	600 Pa [Class 4]
	Water tightness in accordance with EN 12208 and AAMA 101 / E 331	600 Pa
	Wind load resistance in accordance with EN 12210 and AAMA TIR A11-A15 / E 330	1200 - 2000 Pa
	Long term functionality in accordance with EN 12400	10000

Air permeability in accordance with EN 12207		
Class 1	+	low performance ↑
Class 2	++	
Class 3	+++	
Class 4	++++	best performance ↓

Tests and standards	Schüco TropTec™ AW 40.NI		
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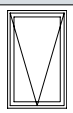
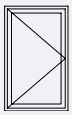
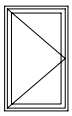
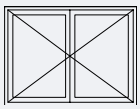
	Air permeability in accordance with EN 12207 and AAMA 101 / ASTM E 283	4	
	Water tightness in accordance with EN 1027 / EN 12208 and AAMA 101 / ASTM E 331	9A	600 Pa
	Wind load resistance in accordance with EN 12210 and AAMA TIR A11-A15 / ASTM E 330	CE2500	2500 Pa
 with side-hung stay	Air permeability in accordance with EN 12207 and AAMA 101 / ASTM E 283	4	
	Water tightness in accordance with EN 1027 / EN 12208 and AAMA 101 / ASTM E 331	9A	600 Pa
	Wind load resistance in accordance with EN 12210 and AAMA TIR A11-A15 / ASTM E 330	CE2500	2500 Pa
 with hinge	Air permeability in accordance with EN 12207 and AAMA 101 / ASTM E 283	4	
	Water tightness in accordance with EN 1027 / EN 12208 and AAMA 101 / ASTM E 331	9A	600 Pa
	Wind load resistance in accordance with EN 12210 and AAMA TIR A11-A15 / ASTM E 330	CE2500	2500 Pa
	Air permeability in accordance with EN 12207 and AAMA 101 / ASTM E 283	4	
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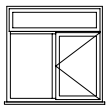	Air permeability in accordance with EN 12207 and AAMA 101 / ASTM E 283	4	
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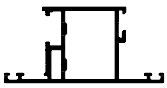
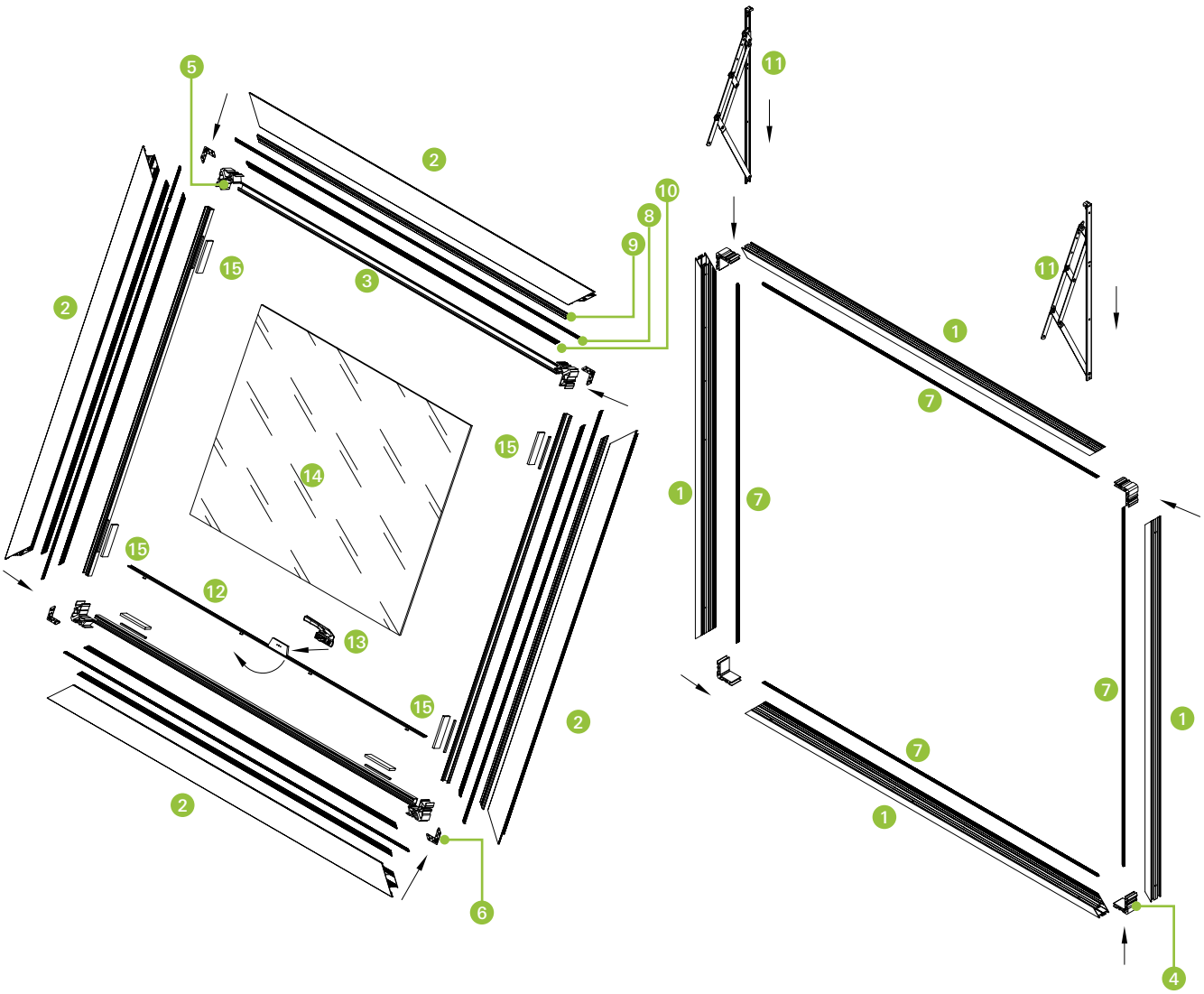
	Wind load resistance in accordance with EN 12210 and AAMA TIR A11-A15 / ASTM E 330	CE2500	2500 Pa

Fulfillment of anti-corrosion class 4 (240 h) according to DIN EN 1670.

	Tests and standards	
 511 350	Air permeability in accordance with EN 12207 and AAMA 101 / ASTM E 283	600 Pa [Class 4]
	Water tightness in accordance with EN 12208 and AAMA 101 / E 331	600 Pa
	Wind load resistance in accordance with EN 12210 and AAMA TIR A11-A15 / E 330	2500 Pa
	Long term functionality in accordance with EN 12400	10000
	Sound insulation with DGU 26 mm in accordance with EN 717-1	34 dB

System components

System illustration



1 Outer frame

2 Vent frame

3 Glazing bead

4 Corner cleat for outer frame

5 Corner cleat for vent frame

6 Corner chevron

7 Rebate gasket (outer frame)

8 Rebate gasket (vent frame)

9 Glazing gasket

10 Glazing rebate gasket

11 Projected top-hung stay

12 Multipoint locking

13 Handle for multipoint locking

14 Glass

15 Glazing blocks

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