



Prüfzentrum für Bauelemente

Dipl.-Ing. (FH) Rüdiger Müller

Fenster • windows
 Rollläden • shutters
 Türen + Tore • doors
 Fassaden • curtain walling
 Baubeschlüsse • building hardware

TEST CERTIFICATE No 13/01-A013-Z1.1

Version 2.de

Initial Type Test (ITT) according to DIN EN 14351-1 : 2010 "Windows and doors - Product standard, performance characteristics - Part 1: Windows and external pedestrian doorsets without resistance to fire and/or smoke leakage characteristics – German Version EN 14351-1:2010"

Applicant	TSM GmbH- Die Marke Tischler Schreiner Kreuzstrasse 108 - 110 44137 Dortmund	Optimal - European Windows & Doors Sam Burges 467 Takou Bay Road RD2 NZ - 0294 Kerikeri
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Design	Inwards-opening 1-, 2- and 3-sash windows and 1- and 2-sash French doors without/with tilt sashes, each rectangular head, angled head, rounded head or segmental arch, without/with fixed glazing or non-transparent fillings in the window breast, fanlight or side panel, each as a single or multi-part window/French door element. Profile system at least IV 56 of solid timber, bulk density at least 350 g/m ³ . Seals, weather bars and hardware as per system manual.
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Product Designation	CE-plus timber windows IV 56, IV 63, IV 68, IV 78, IV 88, IV 92, IV 110
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Dimensions	Max. sash size and number of locking points as per CE-plus system manual
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Classification	As per expert report No 13/01-A013-G1
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EN 1026 Air permeability	EN12207	Class 4
EN 1027 Watertightness (1- and 2-sash) 3-sash windows with openable centre piece	EN 12208	Class 9A Class 7A
EN 12211 Wind resistance, 1-sash 2-/3-sash window / 2-sash French doors, depending on size Likewise, posts/rails according to dimension/reinforcement up to	EN 12210	Class C5 Class C5

Expiry	31 July 2018
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 M.Eng. Dipl.-Ing. (FH) Andreas Wastlhuber
 Testing Centre Deputy Manager

Stephanskirchen
 5 March 2013

[Signature]
 Dipl.-Ing. (FH) Christoph Geiger
 Test Engineer

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Fenster • windows
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 Fassaden • curtain walling
 Baubeschläge • building hardware

TEST CERTIFICATE No 13/01-A013-Z2.1

Version 2.de

Initial Type Test (ITT) according to DIN EN 14351-1 : 2010 "Windows and doors - Product standard, performance characteristics - Part 1: Windows and external pedestrian doorsets without resistance to fire and/or smoke leakage characteristics – German Version EN 14351-1:2010"

Applicant	TSM GmbH- Die Marke Tischler Schreiner Kreuzstrasse 108 - 110 44137 Dortmund	Optimal - European Windows & Doors Sam Burges 467 Takou Bay Road RD2 NZ - 0294 Kerikeri
Design	Inwards-opening one- and two-sash windows and French doors (side-hung sash / tilt & turn sashes) with flat sill without/with tilt-fanlight, each rectangular head, angled head, rounded head or segmental arch, without/with fixed glazing or filling in the window breast, fanlight or side panel, also connected as a multi-part element as the case may be. Profile system at least IV 68 of solid timber, bulk density at least 350 kg/[m] ³ . Seals, weather bars and hardware as per system manual.	
Product Designation	CE-plus timber windows IV 68, IV 78, IV 88, IV 92, IV 110	
Dimensions	Max. sash size and number of locking points as per CE-plus system manual	
Classification	As per expert report No 13/01-A013-G1	
	EN 1026 Air permeability	EN12207 Class 4
	EN 1027 Watertightness (1- and 2-sash) 3-sash windows with openable centre piece	EN 12208 Class 9A Class 7A
	EN 12211 Wind resistance, 1-sash 2-[sash] windows / French doors, depending on size Likewise, posts/rails according to dimension/reinforcement up to	EN 12210 Class C5 Class C5
Expiry	31 July 2018	

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TEST CERTIFICATE No 13/01-A013-Z3.1

Version 2.de

Initial Type Test (ITT) according to DIN EN 14351-1 : 2010 "Windows and doors - Product standard, performance characteristics - Part 1: Windows and external pedestrian doorsets without resistance to fire and/or smoke leakage characteristics – German Version EN 14351-1:2010"

Applicant TSM GmbH- Die Marke Tischler Schreiner Kreuzstrasse 108 - 110 44137 Dortmund
 Optimal - European Windows & Doors Sam Burges 467 Takou Bay Road RD2 NZ - 0294 Kerikeri

Design Outwards-opening one- and two-sash windows and French doors (side-hung sash) without/with top-hung window, each rectangular head, angled head, rounded head or segmental arch, without/with fixed glazing or non-transparent fillings in the window breast, fanlight or side panel, each also as a single or multi-part element. Profile system at least IV 56 of solid timber, bulk density at least 350 kg/m³. Seals, weather bars and hardware as per system manual.

Product Designation CE-plus timber windows IV 56, IV 63, IV 68, IV 78, IV 88, IV 92, IV 110

Dimensions Max. sash size and number of locking points as per CE-plus system manual

Classification As per expert report No 13/01-A013-G1



EN 1026 Air permeability	EN12207	Class 4
EN 1027 Watertightness (1- and 2-sash)	EN 12208	To Class 9A
EN 12211 Wind resistance, 1-sash	EN 12210	Class C5
Posts/rails according to dimension/reinforcement up to		Class C5

Expiry 31 July 2018

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TEST CERTIFICATE No 13/01-A013-Z4.1

Version 2.de

Initial Type Test (ITT) according to DIN EN 14351-1 : 2010 "Windows and doors - Product standard, performance characteristics - Part 1: Windows and external pedestrian doorsets without resistance to fire and/or smoke leakage characteristics – German Version EN 14351-1:2010"

Applicant TSM GmbH- Die Marke Tischler Schreiner Kreuzstrasse 108 - 110 44137 Dortmund
 Optimal - European Windows & Doors Sam Burges 467 Takou Bay Road RD2 NZ - 0294 Kerikeri

Design Inwards-opening 1-, 2- and 3-sash windows and 1- and 2-sash French doors without/with tilt sashes, each rectangular head, angled head, rounded head or segmental arch, without weather bars ("listed buildings"), without/with fixed glazing or non-transparent fillings in the window breast, fanlight or side panel, each as a single or multi-part window/door element. Profile system at least IV 56 of solid timber, bulk density at least 350 g/m³. Seals, weather bars and hardware as per system manual.

Product Designation CE-plus windows for listed buildings IV 56, IV 63, IV 68, IV 78, IV 88, IV 92, IV 110

Dimensions Max. sash size and number of locking points as per CE-plus system manual

Classification As per expert report No 13/01-A013-G1



EN 1026 Air permeability	EN12207	Class 4
EN 1027 Watertightness (1- and 2-sash) 3-sash windows with openable centre piece	EN 12208	Class 9A Class 7A
EN 12211 Wind resistance, 1-sash 2-/3-sash windows / 2-sash French doors, depending on size Likewise, posts/rails according to dimension/reinforcement up to	EN 12210	Class C5 Class C5

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 Baubeschläge • building hardware

TEST CERTIFICATE No 13/01-A013-Z5.1

Version 2.de

Initial Type Test (ITT) according to DIN EN 14351-1 : 2010 "Windows and doors - Product standard, performance characteristics - Part 1: Windows and external pedestrian doorsets without resistance to fire and/or smoke leakage characteristics – German Version EN 14351-1:2010"

Applicant	TSM GmbH- Die Marke Tischler Schreiner Kreuzstrasse 108 - 110 44137 Dortmund	Optimal - European Windows & Doors Sam Burges 467 Takou Bay Road RD2 NZ - 0294 Kerikeri
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Design	Inwards-opening 1-, 2- and 3-sash timber-aluminium windows and 1- and 2-sash timber-aluminium French doors without/with tilt sashes, each rectangular head, angled head, rounded head or segmental arch, without/with fixed glazing or non-transparent fillings in the window breast, fanlight or side panel, each as a single or multi-part window/French door element. Profile system at least IV 56 of solid timber, bulk density at least 350 g/m ³ with additional exterior aluminium covers ("renovation systems"). Seals, weather bars and hardware as per system manual
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Product Designation	CE-plus timber-aluminium windows IV 56, IV 63, IV 68, IV 78, IV 88, IV 92, IV 110
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Dimensions	Max. sash size and number of locking points as per CE-plus system manual
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Classification	As per expert report No 13/01-A013-G1
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EN 1026 Air permeability	EN12207	Class 4
EN 1027 Watertightness (1- and 2-sash) 3-sash windows with openable centre piece	EN 12208	Class 9A Class 7A
EN 12211 Wind resistance, 1-sash 2-/3-sash window / 2-sash French doors, depending on size Likewise, posts/rails according to dimension/reinforcement up to	EN 12210	Class C5 Class C5

Expiry	31 July 2018
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 Testing Centre Deputy Manager

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 5 March 2013

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 Fassaden • curtain walling
 Baubeschlüsse • building hardware

TEST CERTIFICATE No 13/01-A013-Z6.1

Version 2.de

Initial Type Test (ITT) according to DIN EN 14351-1 : 2010 "Windows and doors - Product standard, performance characteristics - Part 1: Windows and external pedestrian doorsets without resistance to fire and/or smoke leakage characteristics – German Version EN 14351-1:2010"

Applicant	TSM GmbH- Die Marke Tischler Schreiner Kreuzstrasse 108 - 110 44137 Dortmund	Optimal - European Windows & Doors Sam Burges 467 Takou Bay Road RD2 NZ - 0294 Kerikeri
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Design	One-sash double windows and French doors (side-hung sash / tilt & turn sash) without/with tilt sashes, each rectangular head, angled head, rounded head or segmental arch, without/with fixed glazing or non-transparent fillings in the window breast, fanlight or side panel, each also connected as a multi-part element, inner sash with seal. Profile system at least IV 56, timber bulk density at least 350 kg/m ³ with additional exterior sashes, at least 42 mm thick without seals. Seals for inner sashes and hardware as per system manual.
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Product Designation	CE-plus double windows IV 56, IV 63, IV 68, IV 78, IV 88, IV 92, IV 110
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Dimensions	Max. sash size and number of locking points as per CE-plus system manual
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Classification	As per expert report No 13/01-A013-G1
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EN 1026 Air permeability	EN12207	Class 4
EN 1027 Watertightness, unprotected Protected mounting position	EN 12208	Class 6A Class 7B
EN 12211 Wind resistance, 1-sash Posts/rails according to dimension/reinforcement up to	EN 12210	Class C5 Class C5

Expiry	31 July 2018
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 Fassaden • curtain walling
 Baubeschläge • building hardware

TEST CERTIFICATE No 13/01-A013-Z7.1

Version 2.de

Initial Type Test (ITT) according to DIN EN 14351-1 : 2010 "Windows and doors - Product standard, performance characteristics - Part 1: Windows and external pedestrian doorsets without resistance to fire and/or smoke leakage characteristics – German Version EN 14351-1:2010"

Applicant	TSM GmbH- Die Marke Tischler Schreiner Kreuzstrasse 108 - 110 44137 Dortmund	Optimal - European Windows & Doors Sam Burges 467 Takou Bay Road RD2 NZ - 0294 Kerikeri
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Design	Inwards-opening 1-, 2- and 3-sash coupled windows and 1- and 2-sash French doors without/with tilt sashes, each rectangular head, angled head, rounded head or segmental arch, without/with fixed glazing or non-transparent fillings in the window breast, fanlight or side panel, each also connected as a single or multi-part window or door element. Profile system at least IV 56, of solid timber, bulk density at least 350 g/m ³ with additional exterior timber (at least 40 mm thick) or aluminium secondary sash. Seals, weather bars and hardware as per system manual
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Product Designation	CE-plus coupled windows IV 56, IV 63, IV 68, IV 78, IV 88, IV 92, IV 110
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Dimensions	Max. sash size and number of locking points as per CE-plus system manual
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Classification	As per expert report No 13/01-A013-G1
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EN 1026 Air permeability	EN12207	Class 4
EN 1027 Watertightness (1- and 2-sash) 3-sash windows with openable centre piece	EN 12208	Class 9A Class 7A
EN 12211 Wind resistance, 1-sash 2-/3-sash window / 2-sash French doors, depending on size Likewise, posts/rails according to dimension/reinforcement up to	EN 12210	Class C5 Class C5

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 Fassaden • curtain walling
 Baubeschlüsse • building hardware

TEST CERTIFICATE No 13/01-A013-Z8.1

Version 1.de

Initial Type Test (ITT) according to DIN EN 14351-1 : 2010 "Windows and doors - Product standard, performance characteristics - Part 1: Windows and external pedestrian doorsets without resistance to fire and/or smoke leakage characteristics – German Version EN 14351-1:2010"

Applicant	TSM GmbH- Die Marke Tischler Schreiner Kreuzstrasse 108 - 110 44137 Dortmund	Optimal - European Windows & Doors Sam Burges 467 Takou Bay Road RD2 NZ - 0294 Kerikeri
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Design	Inwards[-opening] horizontally pivoted sash window, rectangular or round, rectangular also without/with fixed glazing or non-transparent fillings in the window breast, fanlight or side panel, each also connected as a multi-part element. Profile system at least IV 56, bulk density at least 350 kg/m ³ . Seals and hardware as per system manual.
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Product Designation	CE-plus horizontally pivoted sash window IV 56, IV 63, IV 68, IV 78, IV 88, IV 92, IV 110
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Dimensions	Max. sash size and number of locking points as per CE-plus system manual
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Classification	As per expert report No 13/01-A013-G1
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EN 1026 Air permeability	EN12207	Class 4
EN 1027 Watertightness	EN 12208	Class 8A
EN 12211 Wind resistance	EN 12210	Class C5

Expiry	31 July 2018
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Optimal – European Windows & Doors
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 Baubeschläge • building hardware

TEST CERTIFICATE No 13/01-A013-Z9.1

Version 2.de

Initial Type Test (ITT) according to DIN EN 14351-1 : 2010 "Windows and doors - Product standard, performance characteristics - Part 1: Windows and external pedestrian doorsets without resistance to fire and/or smoke leakage characteristics – German Version EN 14351-1:2010"

Applicant TSM GmbH- Optimal - European Windows & Doors
 Die Marke Tischler Schreiner Sam Burges
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 44137 Dortmund NZ - 0294 Kerikeri

Design One- and two-sash parallel slide/tilt windows and French doors, also connected as a multi-part window element.
 Profile system at least IV 56, timber bulk density at least 350 g/m³. Seals, weather bars and hardware as per system manual.
 Opening systems with and without forced control as per system manual and expert report No 13/01-A013-G1

Product Designation CE-plus parallel slide/tilt French door IV 56, IV 63, IV 68, IV 78, IV 88, IV 92, IV 110

Dimensions Max. sash size and number of locking points as per CE-plus system manual

Classification As per expert report No 13/01-A013-G1



EN 1026 Air permeability	EN12207	Class 4
EN 1027 Watertightness, 1- and 2-sash without forced control	EN 12208	Class 9A
2-sash parallel slide/tilt French doors with forced control		Class 4A
2-sash parallel slide/tilt French doors with forced control		Class 9A
EN 12211 Wind resistance, without forced control	EN 12210	To Class 5
With forced control 1-sash / 2-sash		To Class 4/3
Deflection according to profile system and element dimensions		To Class C

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 Fassaden • curtain walling
 Baubeschläge • building hardware

TEST CERTIFICATE No 13/01-A013-Z10.1

Version 2.de

Initial Type Test (ITT) according to DIN EN 14351-1 : 2010 "Windows and doors - Product standard, performance characteristics - Part 1: Windows and external pedestrian doorsets without resistance to fire and/or smoke leakage characteristics – German Version EN 14351-1:2010"

Applicant TSM GmbH- Optimal - European Windows & Doors
 Die Marke Tischler Schreiner Sam Burges
 Kreuzstrasse 108 - 110 467 Takou Bay Road RD2
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Design One- and two-sash lift/slide windows and French doors, also connected as multi-part window element. Profile system at least IV 56, timber solid density at least 350 kg/m³. Seals, rails and guide rails and hardware as per system manual.
 Opening systems as per system manual and expert report No 13/01-A013-G1

Product Designation CE-plus lift/slide door IV 56, IV 63, IV 68, IV 78, IV 88, IV 92, IV 110

Dimensions Max. sash size and number of locking points as per CE-plus system manual

Classification As per expert report No 13/01-A013-G1



EN 1026 Air permeability	EN12207	Class 4
EN 1027 Watertightness, 1-sash 2-sash lift/slide windows and French doors	EN 12208	Up to Class 9A Class 7A
EN 12211 Wind resistance 1-sash and 2-sash, depending on dimensions Deflection according to profile system and element dimensions	EN 12210	Up to Class 5 Class C

Expiry 31 July 2018

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[Signature]

M.Eng. Dipl.-Ing. (FH) Andreas Wastlhuber
 Testing Centre Deputy Manager

Stephanskirchen
 5 March 2013

[Signature]

Dipl.-Ing. (FH) Christoph Geiger
 Test Engineer

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Accredited Testing
 Laboratory
 State Building
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 No. 1644



Prüfzentrum für Bauelemente

Dipl.-Ing. (FH) Rüdiger Müller

Fenster • windows
 Rollläden • shutters
 Türen + Tore • doors
 Fassaden • curtain walling
 Baubeschläge • building hardware

TEST CERTIFICATE No 13/01-A013-Z11.1

Version 2.de

Initial Type Test (ITT) according to DIN EN 14351-1 : 2010 "Windows and doors - Product standard, performance characteristics - Part 1: Windows and external pedestrian doorsets without resistance to fire and/or smoke leakage characteristics – German Version EN 14351-1:2010"

Applicant TSM GmbH- Optimal - European Windows & Doors
 Die Marke Tischler Schreiner Sam Burges
 Kreuzstrasse 108 - 110 467 Takou Bay Road RD2
 44137 Dortmund NZ - 0294 Kerikeri

Design Multi-sash sliding folding windows and French doors. Profile system at least IV 56, timber solid density at least 350 kg/m³. Seals, rails and guide rails and hardware as per system manual.
 Opening systems as per system manual and expert report No 13/01-A013-G1

Product Designation CE-plus folding sliding door IV 56, IV 63, IV 68, IV 78, IV 88, IV 92, IV 110

Dimensions Max. sash size and number of locking points as per CE-plus system manual

Classification As per expert report No 13/01-A013-G1



EN 1026 Air permeability	EN 12207	Class 4
EN 1027 Watertightness	EN 12208	Class 5A
EN 12211 Wind resistance	EN 12210	
Depending on dimensions	Up to	Class 3
Deflection according to profile system and sash height	Up to	Class C

Expiry 31 July 2018

Optimal – European Windows & Doors
 Sam Burges 467 Takou Bay Road RD 2 NZ – 0294 Kerikeri

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