



Notified Body No. 2434

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CENTRUM TECHNIKI OKRĘTOWEJ S.A.

PRODUCT CERTIFICATION DIVISION



AC 170

CERTIFICATE OF CONSTANCY OF PERFORMANCE

2434-CPR-0156

In compliance with Regulation (EU) No. 305/2011 of the European Parliament and of the Council of 9th March 2011 (the Construction products Regulation or CPR) as amended, this Certificate applies to the construction product:

External fire resistant and/or smoke control doors without¹⁾/with²⁾ the possibility of use on escape routes of Janisol® 2 and Janisol® C4 systems

with fire resistance class, acc. to EN 13501-2:2016

**EI₂30 (Janisol® 2 and Janisol® C4),
EI₂60 (Janisol® C4)**

with smoke control class according to EN 13501-2:2016

S_a, S₂₀₀

placed on the market under the name or trade mark of :

RENE OSSENBLOK INTERNATIONAL

Nowe Żabno 18A, 67-100 Nowa Sól

and produced in the manufacturing plant:

RENE OSSENBLOK INTERNATIONAL

Nowe Żabno 18A, 67-100 Nowa Sól

This certificate attests that all provisions concerning the assessment and verification of constancy of performance described in Annex ZA of the standard:

EN 16034:2014¹⁾

or EN 16034:2014 and EN 14351-1:2006+A2:2016²⁾

under system 1 for the performance set out in this certificate are applied and that the factory production control conducted by the manufacturer is assessed to ensure the constancy of performance of the construction product.

This certificate first issued on **12.10.2020** and will remain valid as long as neither the harmonised standard, the construction product, the assessment and verification of constancy of performance methods nor the manufacturing conditions in the plant are modified significantly, unless suspended or withdrawn by the notified product certification body.

Magdalena Laskowska

Head of the Product Certification Division of CTO S.A.

Gdańsk, 12.10.2020

Performance characteristics of the product: fire resistant doors of Janisol 2 and Janisol C4 systems

Essential characteristics	Requirements of EN 16034:2014^{1), 2)} standard	Level, class and/or description
Resistance to fire	4.1	El230 (Janisol 2, Janisol C4) El260 (Janisol C4)
Smoke control	4.2	S _a , S ₂₀₀
Ability to release	4.3	NPD
Self-closing	4.4	C
Durability of ability to release	4.5.1	NPD
Durability of self-closing against degradation	4.5.2.1	class 5
Durability self-closing against ageing (corrosion)	4.5.2.2	achieved
Essential characteristics	Requirements of EN 14351-1:2006 + A2:2016²⁾ standard	Level, class and/or description
Resistance to wind load	4.2	C1-C5 (single-leaf doors)* C1-C3 (double-leaf doors)
Watertightness	4.5 i 4.15	NPD-7A (single-leaf doors)** NPD-4A (double-leaf doors)
Dangerous substances	4.6	meets the requirements
Impact resistance	4.7 i 4.24.1	450 mm
Load-bearing capacity of safety devices	4.8	350 N (for leaves with opaque fillings)
Height	4.9	as described below
Ability to release	4.10 i 4.15	meets the requirements of EN 179/EN 1125 /EN 1135
Acoustic performance	4.11	NPD
Thermal transmittance	4.12 i 4.15	1,0 W/m ² K (Janisol 2) or higher 1,2 W/m ² K (Janisol C4) or higher
Radiation properties	4.13	NPD
Air permeability	4.14 i 4.15	NPD-4 (single-leaf doors)*** NPD-2 (double-leaf doors)

* - depending on dimensions, glazing and steel type

** - depending on dimensions, threshold configuration, steel type, presence and location of the drip cap, exposure side

*** - depending on dimensions, threshold configuration, steel type

The performance characteristics following from the standard PN-EN 14351-1:2006+A2:2016, as part of the system of assessment and verification of constancy of performance 3, should be derived from the declaration of performance of the product manufacturer (applies to fire and/or smoke protection doors not to be used on escape routes).

Product description:

External door, steel, profile, single leaf or double leaf, swinging, with transparent glazings or non-transparent panels, fire resistant and/or smoke control, with or without side and upper transom windows. Door leaves as well as transom windows may have horizontal, vertical and diagonal divisions.

The maximum external height of each door unit (made of black or galvanized steel profiles) with upper transom window, as well as with upper transom window and side transom window(s) is 4280 mm.

The maximum external height of each door unit (made of stainless-steel profiles) with upper transom window, as well as with upper transom window and side transom window(s) is 3960 mm.

External dimensions of the leaves of fire door units made of black or galvanized steel are: height 1800 ÷ 3000 mm, width 600 ÷ 1420 mm (single-leaf door) with a single-point main lock and upper leaf bolt lock, with a two-point main lock with upper bolt lock, or three-point lock.

External dimensions of the leaves of fire door units made of black or galvanized steel are: height 1800 ÷ 3000 mm, width of active leaf: 600 ÷ 1420 mm, width of passive leaf 270 ÷ 1420 mm (double-leaf door) with a single-point main lock and upper leaf bolt lock, with a two-point main lock with upper bolt lock, or three-point lock.

External dimensions of the leaves of fire door units made of stainless steel are: height 1880 ÷ 2515 mm, width 600 ÷ 1420 mm (single-leaf door) with a single-point main lock and upper leaf bolt lock, with a two-point main lock with upper bolt lock, or three-point lock.

External dimensions of the leaves of fire door units made of stainless steel are: height 1880 ÷ 2515 mm, width of active leaf: 600 ÷ 1420 mm, width of passive leaf 535 ÷ 1420 mm (double-leaf door) with a single-point main lock and upper leaf bolt lock, with a two-point main lock with upper bolt lock, or three-point lock.

External dimensions of the leaves of fire door units of Janisol 2 system made of black or galvanized steel with a two-point main lock with lower bolt lock are: height 1895 ÷ 2525 mm, width of active leaf: 625 ÷ 1255 mm, width of passive leaf 625 ÷ 1255 mm (double-leaf door).

The maximum external dimensions of the leaves of smoke control door unit of Janisol 2 system made of black or galvanized steel are height 2615 mm, width 1420 mm or height 3000 mm, width 1420 mm (depending on the type of lock and the way of bolting single-leaf doors).

The maximum external dimensions of the leaves of smoke control door unit of Janisol 2 system made of black or galvanized steel are height 2615 mm, width of active leaf 1420 mm, width of passive leaf 1420 mm or height 3000 mm, width of active leaf 1420 mm, width of passive leaf 1420 mm (depending on the type of lock and the way of bolting double-leaf doors).

The maximum external dimensions of the leaves of smoke control door units of Janisol C4 made of black or galvanized steel are: height 2515 mm, width 1420 mm (single-leaf door) with a single-point main lock and upper leaf bolt lock, with a two-point main lock with upper bolt lock, or three-point lock.

The maximum external dimensions of the leaves of smoke control door units of Janisol C4 made of black or galvanized steel are: height 2515 mm, width of active door 1420 mm, width of passive door 1420 mm (double-leaf door) with a single-point main lock and upper leaf bolt lock, with a two-point main lock with upper bolt lock, or three-point lock.

External dimensions of the leaves of fire door units of Janisol 2 system, "safe rebate" version, made of black or galvanized steel are: height 1900 ÷ 2540 mm, width: 650 ÷ 1290 mm (single-leaf door) with a single-point main lock and upper leaf bolt lock, with a two-point main lock with upper bolt lock, or three-point lock.

External dimensions of the leaves of fire door units of Janisol 2 system, "safe rebate" version, made of black or galvanized steel are: height 2000 ÷ 2670 mm, width of active leaf: 600 ÷ 1210 mm, width of passive leaf: 600 ÷ 1210 (double-leaf door) with a single-point main lock and upper leaf bolt lock, with a two-point main lock with upper bolt lock, or three-point lock.

External dimensions of the leaves of fire door units of Janisol 2 system, "jacket door" version, made of black or galvanized steel are: height 1885 ÷ 2615 mm, width: 710 ÷ 1420 mm (single-leaf door) with a single-point main lock and upper leaf bolt lock, with a two-point main lock with upper bolt lock, or three-point lock.

External dimensions of the leaves of fire door units of Janisol 2 system, "jacket door" version, made of black or galvanized steel are: height 1885 ÷ 2615 mm, width of active leaf: 710 ÷ 1420 mm, width of passive leaf: 605 ÷ 1420 or height 1885 ÷ 2510 mm, width of active leaf: 605 ÷ 1210 mm, width of passive leaf: 605 ÷ 1210 mm (depending on the type of lock and the way of bolting double-leaf doors).

The maximum external dimensions of the leaves of smoke control door unit of Janisol 2 system, "jacket door" version, made of black or galvanized steel are height 2615 mm, width 1420 mm (a single-leaf door) with a three-point main lock.

The maximum external dimensions of the leaves of smoke control door unit of Janisol 2 system, "jacket door" version, made of black or galvanized steel are height 2615 mm, width of active door 1420 mm, width of passive door 1420 mm (a double-leaf door) with a single-point main lock and upper leaf bolt lock, with a two-point main lock with upper bolt lock, or three-point lock.

External dimensions of the leaves of fire door units made of black or galvanized steel with corner or inner door frames made of cold-formed profiles are: height 1575 ÷ 2100 mm, width: 575 ÷ 1100 mm (single-leaf door) with a two-point main lock with upper bolt lock, or three-point lock.

External dimensions of the leaves of fire door units made of black or galvanized steel with corner or inner door frames made of cold-formed profiles are: height 1575 ÷ 2100 mm, width of active leaf: 550 ÷ 1100 mm, width of passive leaf: 550 ÷ 1100 mm (double-leaf door) with a two-point main lock with upper bolt lock, or three-point lock.

Frames, leaf frames, bars and thresholds are made of steel profiles. The doors are made with the use of structural profiles of thickness 60 mm (Janisol 2) or 70 mm (Janisol C4) made of black, galvanized or stainless steel, divided by composite spacers eliminating thermal bridges.

For fire protection / smoke protection door leaves the glazing of leaves class EI₂₃₀, S_a, S₂₀₀ is Pyrobel 16, Pyrobel 16 EG, Pyrostop 30-10, Pyrostop 30-20, Pyrostop 30-101, Contraflam 30, Contraflam 30-2, Polflam EI30 pane. They can be combined with other types of panes to form composite glazing (single- or double-chamber) or glued with PVB foil.

For fire protection / smoke protection door leaves the glazing of leaves class EI₆₀, S_a, S₂₀₀ is Pyrobel 25, Pyrostop 60-101, Contraflam 60, Polflam EI60 pane. They can be combined with other types of panes to form a composite glazing (single- or double-chamber) or glued with PVB foil.

For smoke protection door leaves the glazing of leaves class S_a, S₂₀₀ is ESG pane and composite glass unit 5 ESG / OMS 6 ÷ 16 / 5 ESG, 6 ESG / OMS 6 ÷ 16 / 6 ESG, 44.2 / OMS 6 ÷ 16 / 44.2. ESG pane can be combined with other types of glazing to form a composite glazing (single- or double-chamber) or glued with PVB foil.

Contraflam 30, Contraflam 30-2, Pyrobel 16, Pyrobel 16 EG, Pyrostop 16-10, Pyrostop 30-20, Pyrostop 30-101, Polflam EI30 panes are used as transparent glazing in side and upper transoms of class EI₂₃₀, S_a, S₂₀₀ door units.

Contraflam 60, Pyrobel 25, Pyrobel 25 EG, Pyrostop 60-101, Pyrostop 60-201, Polflam EI60 panes are used as transparent glazing in side and upper transoms of class EI₆₀, S_a, S₂₀₀ door units.

Non-transparent glazing of class EI₂₃₀, S_a, S₂₀₀ door units has minimum thickness 25.5 mm, while for door units of class EI₆₀, S_a, S₂₀₀, the minimum thickness is 39.0 mm.

Non-transparent glazing in side and upper transoms of class EI₂₃₀, S_a, S₂₀₀ door units has minimum thickness 25.5 mm, while for door units of class EI₆₀, S_a, S₂₀₀, S_a the minimum thickness is 37.5 mm.

For fire protection doors with the possibility of use on escape routes of class EI₂₃₀ and EI₆₀, the glazing of leaves, top panels, side panels is a composite glazing package consisting of the panes listed above and a pane meeting the requirements of the standard EN 179:2008 / EN 1125:2008, Annex A, Section A.8 (tempered or laminated glazing).

The glazing is installed by means of system glazing steel strips with mounting seals made of EPDM, CR chloroprene rubber, ceramic fibres or alkaline earth silicate fibres.

A single ventilation grille with a cover with the maximum insert size of 600 × 300 mm, located at a maximum height of 500 mm from the lower edge of leaf or side transom frame may be fitted in the leaves and/or side transoms of EI₂₃₀ door units (without smoke control properties).

System rebate seals made of CR chloroprene rubber are fitted in the rebates of leaves and framing profiles.

Fire protection door leaves are fitted with at least 2 pcs of Jansen or Simonswerk hinges, main mechanical mortise lock, ratchet bolt, single-point, two-point or three-point, double-sided bolt of passive leaf.

Detailed technical parameters and requirements for final classification can be found in the *Classification assessment of fire resistance and smoke tightness of single and double leaf door systems Janisol 2, Janisol 2-70, Janisol 3, Janisol 3-70, Janisol C3, Janisol C4 in accordance with PN-EN 13501-2:2016-07* (No 01586/18/R34NZP issued on 29.10.2018 by Building Research Institute).

The maximum dimensions of fire and/or smoke protection doors used on escape routes result from the dimensions given above and depend on the type of door (fire protection, smoke protection) and the steel used (see above).

Fire resistant doors for use on escape routes are equipped with BKS panic closures complying with EN 1125:2008 or BKS emergency closures complying with EN 179:2008. The doors may be fitted with JANSEN or Simonswerk hinges complying with EN 1935:2002 and EN 1935:2002/AC:2003. Possible configurations of leaf sizes, types of closures, latches, actuation elements and hinges are according to report no. 11-001499-PR02 (PB-C01-03-de-06) issued on 07.12.2016 by ift Rosenheim.

Conditions of use:

For installation in public buildings and other facilities.

Door units of class EI₂₃₀ (with or without smoke protection) can be installed in building elements of minimum resistance class EI30:

- made of ceramic or silicate brick with a thickness of not less than 150 mm,
- made of concrete or reinforced concrete with a thickness of not less than 150 mm,
- made of cellular concrete with a thickness of not less than 150 mm,
- made of steel, profile-type, of the following systems: VISS ® Fire TV, VISS ® Fire TVS, VISS ® Fire DV, Janisol ® 2, Janisol ® 2-70, Janisol ® 3, Janisol ® 3-70, Janisol ® C3, Janisol ® C4, Janisol ® C3PL, Janisol ® C4PL, Janisol ® C5,
- made of plasterboards type F or DF, Promatect-H, Promaxon type A or gypsum-fibre Fermacell type on grating made of steel profiles or wooden elements.

Door units of class EI₆₀ (with or without smoke protection) can be installed in building elements of minimum resistance class EI60:

- made of ceramic or silicate brick with a thickness of not less than 200 mm,
- made of concrete or reinforced concrete with a thickness of not less than 200 mm,
- made of cellular concrete with a thickness of not less than 200 mm,

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- made of steel, profile-type, of the following systems: VISS ® Fire TV, VISS ® Fire TVS, VISS ® Fire DV, Janisol ® 3, Janisol ® 3-70, Janisol ® C3, Janisol ® C4, Janisol ® C3PL, Janisol ® C4PL, Janisol ® C5,
- made of plasterboards type F or DF, Promatect-H, Promaxon type A or gypsum-fibre Fermacell type on grating made of steel profiles or wooden elements.

Intended use:

To be used as external doors for closing openings in walls where fire and/or smoke protection is required, with or without possibility of use on escape routes.