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Classification of Fire Resistance Performance, Smoke Control and Self-closing Characteristics in accordance with EN 13501-2:2016

# K-5052-DMT-DO

| Customer  | Kegro Deuren B.V.<br>Industrieweg 25<br>6562 AP Groesbeek<br>The Netherlands  |
|---|---|
| Compiled by   | DMT GmbH & Co. KG<br>DMT Test Laboratory for Fire Protection, Test Body for Fire Protection<br>Hermann-Kemper-Straße 12a<br>49762 Lathen<br>Germany   |
| Number of notified body   | 2509  |
|   |   |
| Product   | Single and double leaved wooden framed doorset with glazing and/or panel filling, with or without side and/or transom panels, in various supporting constructions   |
| Product<br>Product designation  | Single and double leaved wooden framed doorset with glazing and/or panel<br>filling, with or without side and/or transom panels, in various supporting con-<br>structions<br>KegaWood                     |
| Product<br>Product designation<br>Nr. of the classifica-<br>tion report                               | Single and double leaved wooden framed doorset with glazing and/or panel<br>filling, with or without side and/or transom panels, in various supporting con-<br>structions<br>KegaWood<br>K-5052-DMT-DO    |
| Product<br>Product designation<br>Nr. of the classifica-<br>tion report<br>Issue number               | Single and double leaved wooden framed doorset with glazing and/or panel<br>filling, with or without side and/or transom panels, in various supporting con-<br>structions<br>KegaWood<br>K-5052-DMT-DO    |
| Product<br>Product designation<br>Nr. of the classifica-<br>tion report<br>Issue number<br>Issue date | Single and double leaved wooden framed doorset with glazing and/or panel<br>filling, with or without side and/or transom panels, in various supporting con-<br>structionsKegaWoodK-5052-DMT-DO125.10.2022 |







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### 1 Introduction

This classification report of smoke control defines the classification assigned to a smoke control door with designation "KegaWood" in accordance with the procedures given in EN 13501-2:2016.

### 2 Details of classified product

### 2.1 General

The building component "KegaWood" belongs to the product type smoke protection doors according to EN 16034.

The building component "KegaWood" is provided for the appropriation as single- and doubleleaved smoke control door. It fulfils the criterion of smoke leakage S (section 5.2.7 of EN 13501-2) and thereby reduces or excludes the leakage of gas or smoke from one side to the other, both at ambient temperature ( $S_a$ ) as also with a temperature of 200 °C ( $S_{200}$ ).

Single leave doorsets and the active leaf of a double leaved doorset of the product "KegaWood" fulfils the requirements of the self-closing characteristics C (section 5.2.6) with the ability to close completely out of the opened position.

An exposed side is not defined, the exposed side can either be the opening side as also the closing side/face.

### 2.2 Detailed product description

The product "KegaWood" is a single and double leaved optionally glazed wood frame door optional with side panels and top panel, optionally glazed. The building component is described completely in the test reports and the reports of extended application, which are referred to in section 3.1 for verification of classification, as also the annexes 1 to 6.3 of this classification report.



# 3 <u>Test reports / reports of extended classification and test results for verification of classification</u>

### 3.1 Test reports

### 3.1.1 Test reports according to EN 1634-3

| No. | Name of Laboratory<br>No. of Notified Body | Name of sponsor   | Test report no.<br>dated    | Test method    |
|-----|--|-------------------|-----------------------------|----------------|
| S1  | DMT GmbH & Co. KG<br>NB 2509               | Kegro Deuren B.V. | DMT-DO-52-427<br>31.08.2021 | EN 1634-3:2004 |
| S2  | DMT GmbH & Co. KG<br>NB 2509               | Kegro Deuren B.V. | DMT-DO-52-429<br>29.07.2021 | EN 1634-3:2004 |
| S3  | DMT GmbH & Co. KG<br>NB 2509               | Kegro Deuren B.V. | DMT-DO-52-440<br>20.07.2021 | EN 1634-3:2004 |

### 3.1.2 Test results of test reports according to EN 1634-3

| Test report number<br>Brief description of the test specimen  | Parameter  | results                  |
|---|--|--------------------------|
| (S1) DMT-DO-50-427<br>Double-leaved glazed wooden frameed   | Sa – Smoke control at ambient tempera-<br>ture           | 0,61 m <sup>3</sup> /m/h |
| doorset in wooden block frame with a<br>thickness of 54 mm, with an open clear-<br>ance (W x H) of 2112 mm x 2397 mm<br>and frame outside dimensions (W x H)<br>of 2240 mm x 2490 mm. Tested from the<br>opening and closing side/face                                  | S <sub>m</sub> – Smoke control at a temperature of 200°C | 8,98 m <sup>3</sup> /h   |
| (S2) DMT-DO-50-429<br>Single-leaved glazed wooden framed  | Sa – Smoke control at ambient tempera-<br>ture           | 0,25 m <sup>3</sup> /m/h |
| doorset in wooden block frame with a<br>thickness of 38 mm, with side- and tran-<br>som panel, with an open clearance (W x<br>H) of 1043 mm x 2385 mm and frame<br>outside dimensions (W x H) of 1667 mm<br>x 2967 mm. Tested from the opening<br>and closing side/face | S <sub>m</sub> – Smoke control at a temperature of 200°C | 12,47 m <sup>3</sup> /h  |
| (S3) DMT-DO-50-440  | Sa – Smoke control at ambient tempera-                   | 0,54 m <sup>3</sup> /m/h |



| Single-leaved glazed wooden framed<br>doorset in wooden block frame with a<br>thickness of 39 mm, with an open clear-<br>ance (W x H) of 1049 mm x 2400 mm<br>and frame outside dimensions (W x H)<br>of 1161 mm x 2454 mm. Tested from the<br>opening and closing side/face | S <sub>m</sub> – Smoke control at a temperature of 200°C | 4,40 m <sup>3</sup> /h |
|--|--|------------------------|
| opening and closing side/race  |  |                        |

The smoke protection tests of the reports S1 to S3 were tested according to the current standard EN 1634-3 edition 2004 and can therefore be used without restrictions.

### 3.2 Reports of extended application

| Nr. | Test report no.<br>dated    | Name of Test Body<br>Notified Body | Name of sponsor   | Standard of extended application |
|-----|-----------------------------|------------------------------------|-------------------|----------------------------------|
| E1  | E-5041-DMT-DO<br>25.10.2022 | DMT GmbH & Co. KG<br>2509          | Kegro Deuren B.V. | EN 15269-20:2020                 |

### 4 <u>Classification and field of application</u>

### 4.1 Reference of classification

This classification was carried out in accordance with EN 13501-2:2016, section 7.5.6.

### 4.2 Classification

The building component "KegaWood" of Kegro Deuren B.V., may be classified according to the following combinations of performance parameters and classes as appropriate.





C: only for single leave doorsets and the active leaf of double leafed doorsets

### DMT GmbH & Co. KG

DMT-Test Laboratory for Fire Protection - Test Body for Fire Protection Classification report K-5052-DMT-DO 25.10.2022



### 4.3 Field of application

This classification is valid for the following practical application (final application):

EN 16034

The scope of the classified component with direct and extended field of application is given in the test reports, the reports of extended application and the annexes 1 to 6.3 of this classification report.

### 5 Limitations

This classification document does not represent type approval or certification of the product.

Lathen, 25.10.2022

ONT-Pris Herbers Otte deputy head of test lab) (case worker)



### **Annotations**

Documents without stamp and sign have no validity. The cover page and the sign page of this document are signed with the stamp.

This classification report has to be used and reproduced unchanged and entirely only. Extracts or abridgements are subjected to a written permission by DMT GmbH & Co. KG, Test Body for Fire Protection.

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A publication requires the written approval of DMT GmbH & Co. KG, Test Body for Fire Protection.

Translations of this classification report have to include the annotation "Translation of the german original version not proven by DMT GmbH & Co. KG, Test Body for Fire Protection". In cases of doubt the german original version of the report is valid.



# 1.1 Overview of doorset configuration and sizes Double leaf doorset





### Allowable size for double doorsets

|  | Width  | Height | Area   |
|--|--------|--------|--------|
|  | (mm)   | (mm)   | (m2)   |
| Active doorleaf S <sub>a</sub> / S <sub>200</sub>          | ≤ 1067 | ≤ 2405 | ≤ 2.57 |
| Passive doorleaf S <sub>a</sub> / S <sub>200</sub>         | ≤ 1082 | ≤ 2405 | ≤ 2.60 |
| Frame opening size S <sub>a</sub> / S <sub>200</sub>       | ≤ 2112 | ≤ 2400 | ≤ 5.08 |
| Frame rebate size S <sub>a</sub> / S <sub>200</sub>        | ≤ 2142 | ≤ 2412 | ≤ 5.17 |
| Toplight opening size S <sub>a</sub> / S <sub>200</sub>    | ≤ 2112 | ≤ 900  |        |
| Side screen opening size S <sub>a</sub> / S <sub>200</sub> | ≤900   | ≤ 2400 |        |





Doorleaf type KegaWood for single doorsets • thickness ≥54mm

-- wood species softwood ≥450 kg/m<sup>3</sup>



Additonal configurations, sizes accordingly



FRH: Frame rebate height FOH: Frame opening height TOH: Top light opening height SOH: Sidescreen opening height FRW: Frame rebate width FOW: Frame opening width TOW: Top light opening width SOW: Sidescreen opening width

### Double doorset overview

DMT GmbH & Co. KG Plant for Product Safety Test Body for Fire Protection annex 1.1

# 1.2 Basic principle option horizontal sections of single doorssets with or without sidescreen



Details see Annex:

- 2. Doorleaf construction
  - 2.1. Edge profiles and rebates
  - 2.2. Meeting edge double doors
  - 2.3. Glass/panel fitting
  - 2.4. Mouldings
  - 2.5. Kick plates
- 3. Frame construction
  - 3.1. Rebates
  - 3.2. Side and overhead panels
  - 3.3. 3.3 Tresholds
- 4. Wall-Frame meeting edge and fixation
- 5. Seals

4

≥100 ≥90

- 6. Door hardware
  - 6.1. Hinges
  - 6.2. Locks
  - 6.3. Doorclosers

| *Gap size                      | Nominal<br>(mm) | Max<br>(mm) |  |
|--------------------------------|-----------------|-------------|--|
| Hinge side edge                | 2               | ≤3,5        |  |
| Lock side edge                 | 3               | ≤4,5        |  |
| **: Blockframe width max 300mm |                 |             |  |









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1.3 Basic principle option horizontal sections of double doorssets with or without sidescreen





Details see Annex:

2.1. 2.2.

3.2.

3.3.

- **Doorleaf construction** 2.
  - Edge profiles and rebates

Side and overhead panels

- Meeting edge double
- doors
- Glass/panel fitting 2.3.
- Mouldings 2.4.
- 2.5. **Kick** plates
- 3. Frame construction

Tresholds

Rebates 3.1.

- 4. Wall-Frame meeting edge and fixation
- 5. Seals
- 6. Door hardware
  - Hinges 6.1.
  - Locks 6.2.
  - Doorclosers 6.3.



| *Gap size       | Nominal<br>(mm) | Max<br>(mm) |
|-----------------|-----------------|-------------|
| Hinge side edge | 2               | ≤4          |
| Meeting edge    | 4               | ≤ 4.5       |
|                 |                 |             |

\*: Blockframe width max 300mm



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# Horizontal section double leaf doorset

test report no.

annex 1.3

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# 1.5 Basic principle vertical sections of sidescreens with or without transom



**Details see Annex:** 

### Doorleaf construction 2.

- 2.1. Edge profiles and rebates
- 2.2. Meeting edge double doors
- Glass/panel fitting 2.3.
- 2.4. Mouldings
- **Kick plates** 2.5.



\*\* Blockframe width max 300mm

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3. Frame construction

- 3.1. Rebates
- Side and overhead panels 3.2.
- Tresholds 3.3.
- 4. Wall-Frame meeting edge and fixation
- 5. Seals
- 6. Door hardware
  - 6.1. Hinges
  - Locks 6.2.
  - 6.3. Doorclosers



DMT GmbH & Co. KG Plant for Product Safety **Test Body for Fire Protection**  annex 1.5

# 2.0 - Doorleaf construction $S_a + S_{200}$





Doorleaf construction S<sub>a</sub> + S<sub>200</sub> DMT GmbH & Co. KG Plant for Product Safety

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annex 2.0

# 2.1 Profiles for door-Frame meeting edge rebate



Head of door





Plain edge with inner rebate





Plain edge with inner rebate

> Optional additional seal 5.11

1.5

Seal 5.01, 5.04\*

≥54

\_5



12-16\*

≥30

# Vertical edges



16-26\* Seal 5.02, 5.03, <u>,</u>8 5.05 - 5.08\*\* ->54-≥34 Lockside edge slanted 3



Plain edge innerrebate for seal in frame or doorleaf



11-16\*

Plain edge double rebate for seal(s) in frame or doorleaf

# Bottom edges



Plain with notch for threshold dropseal. "Z" adapted to frame seal or inner rebate in vertical edges

Seal 5.03 L6-26\*\*\* ≥30

≥38

Plain edge with inner rebate for threshold with rebate



Plain edge with inner rebate for threshold with rebate



Plain without rebated threshold, only for Sa

\*: width of rebate to be in relation to frame rebate. Frame rebate +1mm is door rebate.

\*\*: Seal optionally in frame. Notch for seal in door optionally omitted in such a case.

\*\*\*: width of rebate underside of door to be in relation to threshold rebate. Threshold rebate - door rebate = ≤ 3 <sup>v</sup> : All edges can optionally contain an exposed or concealed intumescent seal (fire door situation)

| A DMT          | Edge profiles and rebates doorleaf   | annex 2.1                        |
|----------------|--|----------------------------------|
| 2 5. Okt. 2022 | DMT GmbH & Co. KG<br>Plant for Product Safety<br>Test Body for Fire Protection | test report no.<br>K-5052-DMT-DO |

# 2.2 Profiles for double doorset meeting edge



15 / 17

44

Type DS-1d

≥11\*

5.02 / 5.05

≥10

46 6

40 / 44 / 54

6.2 passive

door lock

5.12

26



annex 2.2

5.04

5.12

21

67

46

6.2 flushbolt

and strikers

in passive door

# 2.3 Glazing and opaque panel fitting



### Doorleaf consctruction according annex 2.0



Large glass/panel opening doors

Single glass opening or multiple glazings fitted possible. Maximum sizes and glass types see table below Minimum size 150 x 150 mm or 0.0225m<sup>2</sup> area Glass fitting detail see annex 2.3a

|               | Thickness | Width | Height | Area              |
|---------------|-----------|-------|--------|-------------------|
| Glastype*     | (mm)      | (mm)  | (mm)   | (m <sup>2</sup> ) |
| Tempered      | ≥5        | ≤ 865 | ≤2181  | ≤ 1.887           |
| Laminated     | ≥6        | ≤ 865 | ≤2181  | ≤ 1.887           |
| IGU-1 float** | ≥ 18      | ≤ 779 | ≤ 480  | ≤ 0,38            |
| IGU safety*** | ≥ 18      | ≤ 865 | ≤2181  | ≤ 1.887           |
| Panel****     | ≥ 26.5    | ≤ 865 | ≤2181  | ≤ 1.887           |



Doors with (multiple) glass/panel openings

Index:

GRW: glazing rebate width GOW: glazing opening width GRH: glazing rebate height GOH: glazing opening height POW: panel opening width POH: panel opening height

4. Glazing setting block position, see 2.3a

\* Fire rated glass or glass that will not fracture at temperatures up to 200 °C are also possible

\*\* Insulated glass unit, double or triple, with at least 1 sided tempered and/or laminated glass

\*\*\* Insulated glass unit, double or triple, with 2 sided tempered and/or laminated glass.

\*\*\*\*Opaque woodbased sandwich panel. >26.5mm thickness. Construction see annex 2.3a



### Doorleaf glazing overview

DMT GmbH & Co. KG Plant for Product Safety Test Body for Fire Protection annex 2.3

# 2.3a Glass fitting in doorleaf





≥17

# 2.3a Panel fitting in doorleaf





### Materials:

- 1. Glazing sealant silicon based o.e.
- 2. PE foam backing or Ceramic backing size  $4^{+/-1}x \ge 9 \text{ mm}$
- 3. Glued and sealed
- 4. Setting blocks, PVC of Fitherm SB (for fire doors)
- 5. Optional: Fitherm GB Intumescent 0.8 x 10 mm or 0.8 x 20 mm in glass base
- 6. Glass bead screw Ø3.5 x 40 mm, distance  $50^{+25}$  mm from corner and  $\leq 250$  mm apart
- 7. Steel nail 1.2 x 30 mm distance 50 mm from corner and ≤ 150 mm apart.
- 8. Glass bead hardwood
- Optionally ventilation ducts 40x8mm, 50+/- 25 mm from glass corner
- 10. Optional 4-sided (water)seal in glass base with 1.

\* resulting effective rebate depth  $\ge$  12 mm for glass and  $\ge$  15 mm for panels

\*\* Effectice depth of glass bead is the result of the glass- and door thickness

\*\*\* All glass beads optionally as enlarged timber moulding

screwed to surface

Optionally glasbead screw fixed on both sides, combined with 10. only.

### Panel type:

- A. NON-Fire resistant doors:
- MDF / HDF / Tricoya insulated sandwich panel, thickness ≥27mm. optionally with single or double sided moulded rebate edge and or moulded grooves (see annex 2.4)
- B. Panel for fire resistant doors according K-5045-DMT-DO
- MDF/HDF/Tricoya insulated EW/EI30 opaque panel.
- Thickness ≥42.5mm at moulded rebate edge ≥26.5mm

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### Doorleaf glass fitting detail

DMT GmbH & Co. KG Plant for Product Safety Test Body for Fire Protection annex 2.3a





# 2.6 Kickplates on doorleaf



# Limitations regarding face fixed protective elements (kickplates)





### Sidescreen glazing type and allowed glass sizes

| Glastype                    | Th.<br>(mm) | Width<br>(mm)                                  | Height<br>(mm)     |
|-----------------------------|-------------|--|--------------------|
| SGU Tempered                | ≥5          |  |                    |
| SGU laminated, ≥1 PVB layer | ≥6          |  | S < 3582           |
| SGU fire, such as:          |             | S <sub>a</sub> ≤ 900<br>S <sub>200</sub> ≤ 900 | Ja 2 3302          |
| Pyrodur plus 30-106,        | . –         |  | $S_{200} \le 3382$ |
| Pyrodur 30-203              | ≥7          | - 200  | DL* ≤ 2400         |
| Pyrobelite 9/10/12          |             |  |                    |

- \* DL size S<sub>200</sub> or S<sub>a</sub> in case of double leaf door
- \*\* DGU or TGU ISO-glass configurations with at least 1 glass pane as listed above

Meeting edge with support construction and fixation see annex 4

4\*: position of setting blocks glazing. See annex 3.2. Vertical setting blocks generally in area of lock points and hinges.

FOH: Frame opening height TOH: Top light opening height SOH: Sidescreen opening height FOW: Frame opening width TOW: Top light opening width SOW: Sidescreen opening width



0

| aı | Frame construction and sizes overview         | annex 3.0                  |
|----|---|----------------------------|
| ۱S | DMT GmbH & Co. KG<br>Plant for Product Safety | report no.<br>K-5052-DMT-D |
|    | Test Body for Fire Protection                 |                            |

# 3.1 Doorframe rebates



Door frame situation for doorleaf with draught seal incorporated in doorleaf or side/overhead glazing



Door frame situation for doorleaf with rebate without draught seal in doorleaf.



Door frame situation for doorleaf with double draught seal incorporated in doorleaf.



Door frame transom sidescreen situation, rebate opposite side.

 \*: all edges chamfered ≤3 , Radius ≤5 , or square.
 \*\*: block frame width max 300mm Door frame transom overhead sreen situation.



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# 3.2 Doorframe glazing





# 3.3 Doorframe tresholds





Solid material with 1 rebate with skirting blocks



Solid material with 1 rebate slanted, optionally with skirting blocks

≥90



Solid material with double rebate, with skirting blocks

with double Solid kirting blocks

<sup>★</sup><sup>5</sup>\*

Fixation of threshold to frame, including skirting blocks if relevant, with PVC dowels and screw ca 8x120mm according manufacturers instruction



Solid material unrebated.



No threshold in door rebate. For S200, dropseal required. For Sa, no (drop)seal needed.



\*: Gap size according Annex 1.4 \*\*: block frame width max 300mm

### **Doorframe tresholds**

annex 3.3

DMT GmbH & Co. KG Plant for Product Safety Test Body for Fire Protection report no.

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# 3.4 Sidescreen tresholds





Wood frame profile, optionally mounted on a threshold solid material (continuing from door opening)

Direct glazing on a threshold solid material (continuing from door opening) optionally with skirting blocks

# Glazing rules and materials see annex 3.2

\*\* : block frame width max 300mm

Fixation of threshold to frame, including skirting blocks if relevant, with PVC dowels and screw ca 8x120mm or otherwise according manufacturers instruction

# 3.4 A: Frame protection



# 4 Frame fixation to support construction



Fixation points of timber doorframes in support construction. Details of wall-to frame meeting edge and fixation see annex 4.1

Positioning in wall opening only





### Support constructionoptions:

Rigid ≥100mm density ≥550kg/m<sup>3</sup>

- Aerated concrete
- Concrete
- Masonary bricked wall
- limestone

Flexible partition ≥100mm

- max 5m height
- To support door weight, prescription metal-stud wall: ≥2mm U-profile ≥40 x ≥50 mm around doorframe, fixed to structural floor and ceiling construction. single or double ≥12.5 mm gypsum board
- Or wooden-studs wall: ≥60 x ≥50 mm around doorframe, fixed to structural floor and ceiling construction single or double ≥12.5 mm gypsym board

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# Frame fixation to support construction

annex 4.0

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5 Seals



| Nim  | Soal    | Matarial | Height | Thickness | Gapsize | Position                                |  |
|------|---------|----------|--------|-----------|---------|---|--|
| INT. | Sear    | wateria  | (mm)   | (mm)      | (mm)    | Position                                |  |
| 5.01 | SPV-12  | TPE      | 11,5   | 9         | 6       | Door- or frame rebate                   |  |
| 5.02 | SPV-15  | TPE      | 14,5   | 9         | 6       | Door- or frame rebate and meeting edge  |  |
| 5.03 | SP-5739 | TPE-2K   | 14,5   | 13        | 7       | Door- or frame rebate                   |  |
| 5.04 | KD 1201 | Silicone | 12     | 10,5      | 6       | Door- or frame rebate and meeting edge  |  |
| 5.05 | KD 1501 | Silicone | 15     | 10,5      | 6       | Door- or frame rebate and meeting edge  |  |
| 5.08 | KD 1801 | Silicone | 18     | 10,5      | 6       | Door- or frame rebate                   |  |
| 5.10 | KDA.01  | Silicone | 11     | 6         | 2       | Meeting edge in astragal                |  |
| 5.11 | K.003.3 | TPE      | 7,5    | 10,5      | -       | Door rebate additional lateral to frame |  |
| 5 12 | Sash-   |          | 12/15  | 1         |         | Meeting edge top and bottom corner of   |  |
| 5.12 | barrier |          | 12/15  |           | 0       | double door with integrated seal 5.01 - |  |

# Non-intumescent smoke, draught, acoustic seals

## Automatic drop seals

| Nr   | Seal                   | Material                           | Height | Thickness | Position             |
|------|------------------------|------------------------------------|--------|-----------|----------------------|
| 5.20 | Ellen Matic Soundproof | Aluminium profile with silicone    | 30     | 15        | At the bottom of the |
| 5.21 | Ellen Matic Slimline   | rubber and plastic composite parts | 30     | 10        | doorleaf in cutout   |

Maximum gap under doorleaf for S200 with dropseal ≤ 12mm



Seals

DMT GmbH & Co. KG Plant for Product Safety Test Body for Fire Protection annex 5





| Product      | Producer   | Knot<br>diameter | Height | Width | In-frame<br>thickness | In-leaf<br>thickness | Description                           | Fixation<br>(screws)                     |
|--------------|------------|------------------|--------|-------|-----------------------|----------------------|---------------------------------------|--|
| S2 Ultimax   | Themans BV | 15               | 89     | 89    | 3                     | 3                    | Galvanised butt hinge with integrated | 8x Ø4x35                                 |
|              |            |                  |        |       |                       |                      | security and composite bushings       |  |
| S2 6504 HMR  | Themans BV | 15               | 89     | 89    | 3                     | 3                    | Galvanised steel butt hinge with      | 8x Ø4x 35                                |
| 089          | 089        |                  |        | 0.5   | 0                     | 5                    | composite bushings                    |  |
| Atlas Inside | Buva BV    | 15               | 80     | 80    | 2                     | 2                    | Galvanised butt hinge with integrated | 8v Ø1v35                                 |
| Atlas Inside | Duva Dv    | 15               | - 35   | - 69  | 5                     | 5                    | security and composite bushings       | 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0 |

All steel-/stainless steel butt hinges according to EN1935 with test evidence in similar timber doorset construction, with equal or greater dimensions, can be used.



## Hinges and hinge positions

DMT GmbH & Co. KG Plant for Product Safety Test Body for Fire Protection annex 6.1

# 6.2 Locks and furniture system index



# A : Locks

|     | Product     | Producer   | type          | cutout size main<br>lock (w x d x h) | cutout size<br>sidelock<br>(w x d x h) | Forend size | Lever<br>height | Top lockcase<br>height in<br>doorleaf |
|-----|-------------|------------|---------------|--------------------------------------|--|-------------|-----------------|---------------------------------------|
| A.1 | H542        | Themans BV | MP-lock with  | 85x18x269                            | 55x15x146                              | 3x20x1989   | 1050            | 2009                                  |
|     | Easy2Safe   |            | 1 latch       |                                      |  |             | (+/- 200)       |                                       |
| ٨ ٥ | C2 DC110/12 | Thomans BV | Mortise latch | 01v19v192                            |  | 2220225     | 1050            |                                       |
| A.Z | 32 830 945  | memans BV  | lock          | 91X10X10Z                            | -                                      | 3XZUXZ33    | (+/- 200)       | -                                     |

- Other locks allowed if ≤ cut out size, it has at least 1 metal latch (≥500°C melting point).

# B : Strikers to be fixed in frame

|     | Product              | Producer   | cutout size<br>(wxdxh) | Туре                        | Material           | Max. height position<br>in doorframe |
|-----|----------------------|------------|------------------------|-----------------------------|--------------------|--------------------------------------|
| B.1 | S2 Flexikom hoofdkom | Themans BV | 24 x 23 x 190          | Box type main striker       | Steel box, plastic | As main lock position                |
| B.2 | S2 Flexikom          | Themans BV | 24 x 21 x 130          | Box type additional striker | Steel + plastic    | 2034                                 |

• Other strikers allowed if  $\leq$  cut out size and is out of (stainless) steel.

# C : Passive doorleaf lock systems double doorsets

|     | Product          | Producer   | Leaf-cutout size<br>(w x d x h)      | Туре  | Material | Max. height position<br>in doorframe |
|-----|------------------|------------|--------------------------------------|---|----------|--------------------------------------|
| C.1 | S2 V0207 CEU29-8 | Themans BV | Forend: 29 x 8<br>Lever casing: 21 x | Forend passive doorlock<br>with integrated strikers | Steel    | Full length of door                  |
|     |                  |            | 56 x 140                             | "Contra-espagnolet"                                 |          | _                                    |

Other passive doorleaf lock systems allowed if ≤ cut out size and made out of (stainless) steel, with ≥500 C melting point of bolts and strike plates .

# D : Door furniture

|     | Product         | Producer    | Туре                        | Material                  | Max. height position<br>in doorframe |
|-----|-----------------|-------------|-----------------------------|---------------------------|--------------------------------------|
| D.1 | S2 402121       | Themans BV  | Security leverset SKG**     | Aluminium                 | 1050 +/-200                          |
| 2   | S2 CIL S6 45/30 | Thomans BV  | Euro profilo gylindor SKG** | Brace                     | Dependent on                         |
| D.2 | S2 CIL S6 30/30 | Inemails by |                             | DI dSS                    | leverset                             |
| D.3 | DRS 2140B       | Dulimex BV  | Door viewer                 | brass case / plastic lens | -                                    |

- Other door furniture and cylinders possible if suitable for door thickness and furniture fully covers and seals the cutouts in the doorleaf.



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# 6.3 Door closers and coordinators



| Туре                | Product                   | Producer         | Rail or arm       | EN 1154 size | Installation   |
|---------------------|---------------------------|------------------|-------------------|--------------|----------------|
| Closer              | ECO TS 41                 | ECO Schulte GmbH | Rail GS-B         | EN 1-4       | Door leaf or   |
| Closer              | ECO TS 62                 | ECO Schulte GmbH | Rail GS-B         | EN 2-5       | frame on       |
| Closer              | TS3000                    | GEZE             | Rail              | EN 1-4       | hinge or hinge |
| Closer              | TS5000 (EFS)              | GEZE             | Rail              | EN 2-6       | opposite face  |
| Closing coordinator | ECO SR III /<br>SR III BG | ECO Schulte GmbH | Rail GS inegrated | -            | Face fixed on  |
| Closing coordinator | ISM / ISM-BG              | GEZE             | Rail GS inegrated | -            | frame          |

- All closers with EN 1154 and EN 1634-1 test evidence are allowed, considering size ≤ above, equal position and fixation

- Face fixed on doorleaf or frame, on both opening and closing face possible



Normal installation closing face (hinge side)



Installation opening face (non-hinge side)



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| Doorclosers and coordinators                  | annex             |
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