

# Declaration of Performance according regulation (EU) Nr. 305/2011 for building products (CPR-Construction Products Regulation) 0432

DOP-No. 0432 CPR 00117-10/DOP\_EW\_GB/February 2017

## 1 Single wall system chimney according EN 1856-1:2009 of type

Product designation:

**EW**

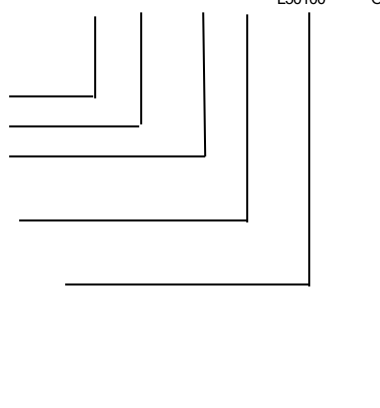
(Tradename)

## 2 Type-, charge or serial no. or other mark for identification of the building product according article 11 paragraph 4:

Product information of the manufacturer

|            |                      |        |     |    |   |        |        | DN      |   |  |
|------------|----------------------|--------|-----|----|---|--------|--------|---------|---|--|
| <b>0.1</b> | Metal system chimney | EN     | T   | P1 | W | V2     | O(20)  | 80-300  | Single wall metal chimney with EPDM sealing                 |  |
|            |                      | 1856-1 | 120 |    |   | L50060 | O(30)  | 301-450 | ventilated, without shaft                                   |  |
|            |                      |        |     |    |   | L50100 | O(40)  | 451-600 |   |  |
| <b>0.2</b> | Metal system chimney | EN     | T   | H1 | W | V2     | O(60)  | 80-300  | Single wall metal chimney with VITON sealing inside/outside |  |
|            |                      | 1856-1 | 200 |    |   | L50060 | O(90)  | 301-450 | ventilated, without shaft                                   |  |
|            |                      |        |     |    |   | L50100 | O(120) | 451-600 |   |  |
| <b>0.3</b> | Metal system chimney | EN     | T   | N1 | D | V2     | G(300) | 80-300  | Single wall metal chimney                                   |  |
|            |                      | 1856-1 | 600 |    |   | L50060 | G(450) | 301-450 | ventilated, without shaft                                   |  |
|            |                      |        |     |    |   | L50100 | G(600) | 451-600 |   |  |
| <b>0.4</b> | Metal system chimney | EN     | T   | N1 | D | V3     | G(60)  | 80-300  | Single wall metal chimney with 30 mm insulation             |  |
|            |                      | 1856-1 | 600 |    |   | L50060 | G(90)  | 301-450 | ventilated, without shaft                                   |  |
|            |                      |        |     |    |   | L50100 | G(120) | 451-600 |   |  |
| <b>0.5</b> | Metal system chimney | EN     | T   | N1 | W | V2     | O(80)  | 80-300  | Single wall metal chimney                                   |  |
|            |                      | 1856-1 | 400 |    |   | L50060 | O(120) | 301-450 | ventilated, without shaft                                   |  |
|            |                      |        |     |    |   | L50100 | O(160) | 451-600 |   |  |

Product description  
 No. of standard  
 Temperature class  
 Pressure class  
 Condensate resistance  
 (W:wet or D: dry)  
 Corrosion class  
 (durability against corrosion)  
 Material of the inner liner  
 Sootfire resistance  
 G: yes/ O: no  
 Distance to combustible materials  
 (in mm)



## 3 Intended use or uses of the construction product, in accordance with the applicable harmonised technical specification, as foreseen by the manufacturer:

**Convey the products of combustion from heating appliances to the outside atmosphere**

## 4 Name, registered trade name or registered trade mark and contact address of the manufacturer as required under Article 11 (5):

**Joseph Raab GmbH & Cie. KG**  
 Gladbacher Feld 5, D-56566 Neuwied  
 Tel.: +49(0) 2631 913-0 Fax: +49(0) 2631 913-145  
 E-Mail: info@raab-gruppe.de  
 Internet: www.raab-gruppe.de

## 5 Where applicable, name and contact address of the authorised representative whose mandate covers the tasks specified in Article 12(2):

**Not applicable**

## 6 System or systems of assessment and verification of constancy of performance of the construction product as set out in CPR, Annex V:

**System 2+**

## 7 Notified factory production control certification body

**MPA NRW**  
 Materialprüfungsamt Nordrhein-Westfalen  
 Marsbruchstraße 186  
 D-44287 Dortmund

performed the initial inspection of the manufacturing plant and of factory production control and the continuous surveillance, assessment and evaluation of factory production control and issued the certificate of conformity of the factory production control.

8 Declared performance

| lfd. Nr | Essential characteristics | Performance according EN 1856-1  | Values / Classes   | harmonised technical specification/other informations                      |
|---------|---------------------------|--|--|--|
| 1.0     | Compressive strength      | Version 0.1-0.5<br>for<br>Tubes, fittings and<br>wall bands  | <b>L50060</b><br>DN80-300 up to 169 m<br>DN301-450 up to 35 m<br>DN451-600 up to 29 m<br><b>L50100</b><br>DN80-300 up to. 257 m<br>DN301-450 up to 116 m<br>DN451-600 up to 68 m | EN 1856-1<br><br>Consider anchor forces/<br>distance to the wall<br>Height |
| 2.1     | Resistance to fire        | Version 0.1<br>Distance to combustible<br>materials with T120<br>and positive pressure P1                              | O(20) DN80-200 20mm,<br>O(30) DN301-450 30mm,<br>O(40) DN351-600 40mm,<br><br>ventilated, without shaft  | EN 1856-1<br>with EPDM sealing   |
| 2.2     | Resistance to fire        | Version 0.2<br>Distance to combustible<br>materials with T200<br>and positive pressure H1                              | O(60) DN80-300 60mm,<br>O(90) DN301-450 90mm,<br>O(120) DN351-600 120mm,<br><br>ventilated, without shaft  | EN 1856-1<br>with VITON sealing inside/outside                             |
| 2.3     | Resistance to fire        | Version 0.3<br>Distance to combustible<br>materials with T600,<br>and negative pressure N1<br>and soot fire resistance | G(300) DN80-300 300mm,<br>G(450) DN301-450 450mm,<br>G(600) DN351-600 600mm,<br><br>ventilated, without shaft  | EN 1856-1  |
| 2.4     | Resistance to fire        | Version 0.4<br>Distance to combustible<br>materials with T600,<br>and negative pressure N1<br>and soot fire resistance | G(60) DN80-300 300mm,<br>G(90) DN301-450 450mm,<br>G(120) DN351-600 600mm,<br><br>ventilated, without shaft  | EN 1856-1  |
| 2.5     | Resistance to fire        | Version 0.5<br>Distance to combustible<br>materials with T400,<br>and negative pressure N1                             | O(80) DN80-300 80mm,<br>O(120) DN301-450 120mm,<br>O(160) DN351-600 160mm,<br><br>ventilated, without shaft  | EN 1856-1  |
| 3.1     | Gas tightness             | Version 0.1<br>T120  | O(20) DN80-300 P1<br>O(30) DN301-450 P1<br>O(40) DN351-600 P1  | EN 1856-1<br>with EPDM sealing   |
| 3.2     | Gas tightness             | Version 0.2<br>T200  | O(50) DN80-300 N1<br>O(75) DN301-450 N1<br>O(100) DN351-600 N1   | EN 1856-1<br>with VITON sealing inside/outside                             |
| 3.3     | Gas tightness             | Version 0.3<br>T600  | G(300) DN80-300 N1<br>G(450) DN301-450 N1<br>G(600) DN351-600 N1   | EN 1856-1  |
| 3.4     | Gas tightness             | Version 0.4<br>T600  | G(60) DN80-300 N1<br>G(90) DN301-450 N1<br>G(120) DN351-600 N1   | EN 1856-1  |
| 3.5     | Gas tightness             | Version 0.5<br>T400  | O(80) DN80-300 N1<br>O(120) DN301-450 N1<br>O(160) DN351-600 N1  | EN 1856-1  |
| 4.1     | Flow resistance stand     | Version 0.1-0.5<br>tubes   | according EN13384-1, R=1mm<br>table B.4  | EN 1856-1<br>Normative value   |

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| lfd. Nr. | Essential characteristics       | Performance according EN 1856-1   | Values / Classes   | harmonised technical specification/other informations |
|----------|---------------------------------|---|--|---|
| 4.2      | Flow resistance stand           | Version 0.1-0.5 fittings  | according EN13384-1 Tabelle B.8  | EN 1856-1 Normative value                             |
| 4.3      | Flow resistance stand           | Version 0.1-0.5 terminals   | nach EN13384-1 Tabelle B.8   | EN 1856-1 declaration by the manufacturer             |
| 5.1      | Thermal resistance              | Version 0.1-0.5   | 0,0 m²K/W at 200°C<br>0,41 m²K/W at 200°C wit 30 mm insulation   | EN 1856-1   |
| 6.1      | Thermal shock resistance        | Version 0.1<br>Sootfire resistance<br><br>Thermal performance under normal operating conditions | O(20) DN80-300 No<br>O(30) DN301-450 No<br>O(40) DN351-600 No<br>No - because O<br>O(20) DN80-300 T120<br>O(30) DN301-450 T120<br>O(40) DN351-600 T120     | EN 1856-1   |
| 6.2      | Thermal shock resistance        | Version 0.2<br>Sootfire resistance<br><br>Thermal performance under normal operating conditions | O(50) DN80-300 No<br>O(75) DN301-450 No<br>O(100) DN351-600 No<br>No - because O<br>O(50) DN80-300 T200<br>O(75) DN301-450 T200<br>O(100) DN351-600 T200   | EN 1856-1   |
| 6.3      | Thermal shock resistance        | Version 0.3<br>Sootfire resistance<br><br>Thermal performance under normal operating conditions | G(300) DN80-300 Yes<br>G(450) DN301-450 Yes<br>G(600) DN351-600 Yes<br><br>G(300) DN80-300 T600<br>G(450) DN301-450 T600<br>G(600) DN351-600 T600          | EN 1856-1   |
| 6.4      | Thermal shock resistance        | Version 0.4<br>Sootfire resistance<br><br>Thermal performance under normal operating conditions | G(60) DN80-300 Yes<br>G(90) DN301-450 Yes<br>G(120) DN351-600 Yes<br><br>G(60) DN80-300 T600<br>G(90) DN301-450 T600<br>G(120) DN351-600 T600              | EN 1856-1   |
| 6.5      | Thermal shock resistance        | Version 0.5<br>Sootfire resistance<br><br>Thermal performance under normal operating conditions | O(80) DN80-300 No<br>O(120) DN301-450 No<br>O(160) DN351-600 No<br>No - because O<br>O(80) DN80-300 T400<br>O(120) DN301-450 T400<br>O(160) DN351-600 T400 | EN 1856-1   |
| 7.1      | Flexural tensile strength       | Version 0.1-0.5   | NPD  | EN 1856-1   |
| 8.1      | Non vertical installation       | Version 0.1-0.5<br>Maximum offset between supports  | 90°  | EN 1856-1   |
| 8.2      | Non vertical installation       | Version 0.1-0.5<br>Maximum length between supports  | 3m   | EN 1856-1   |
| 9        | Components subject to wind load | Version 0.1-0.5<br>Wind load  | not given  | EN 1856-1   |
| 10.1     | Durability                      | Water and vapour diffusion resistance<br>Version 0.1/0.2/0.5<br><br>Version 0.3/0.4             | W (Yes)<br><br>D (No)  | EN 1856-1   |

8 Declared performance

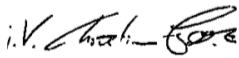
| lfd. Nr. | Essential characteristics | Performance according EN 1856-1   | Values / Classes  | hamonised technical specification/other informations |
|----------|---------------------------|---|-------------------|--|
| 10.2     | Durability                | Condensate penetration resistance<br>Version 0.1/0.2/0.5<br>Version 0.3/0.4 | W (Yes)<br>D (No) | EN 1856-1  |
| 10.3     | Durability                | corrosion resistance<br>Version 0.1-0.3/0.5<br>Version 0.4                  | V2<br>V3          | EN 1856-1  |

- 9 The performance of the product identified in points 1 and 2 is in conformity with the declared performance in point 8. This declaration of performance is issued under the sole responsibility of the manufacturer identified in point 4.

Signed for and on behalf of the manufacturer by:

Christian Freis, Technical director Raab-Group

Neuwied,  
01. February 2017

i.V.   
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(Signature)