



## DECLARATION OF CONFORMITY AND PRODUCT DESCRIPTION

### EN 1856-1

#### Chimneys – Requirements for metal chimneys. Part 1: System chimney products

Manufacturer: **DINAK**  
Camiño do Laranxo, 19. 36216, VIGO (ESPAÑA)

Product commercial name: **DIFLUX PELLETS**

Product description: Concentric double wall metal chimney for room-sealed appliances providing the flue gas outlet through the inner wall and the air supply through the outer wall

Name and function of the responsible person: Íñigo A. Canoa (General Manager)

Notified Body: **TÜV Industrie Service GmbH TÜV SÜD Gruppe**

Certificate number: **0036 CPD 90220 025**



Designations according to EN 1856-1:

|     |  |                      |             |           |          |                  |               |
|-----|--|----------------------|-------------|-----------|----------|------------------|---------------|
| 0.1 | <b>Metal chimney<br/>1.4404/316L</b>               | <b>EN<br/>1856-1</b> | <b>T450</b> | <b>N1</b> | <b>W</b> | <b>V2-L50040</b> | <b>G(120)</b> |
| 0.2 | <b>Metal chimney with<br/>seal<br/>1.4404/316L</b> | <b>EN<br/>1856-1</b> | <b>T200</b> | <b>P1</b> | <b>W</b> | <b>V2-L50040</b> | <b>O(50)</b>  |

|   |  |
|---|--|
| Product description   |  |
| Standard number   |  |
| Temperature level   |  |
| Pressure level  |  |
| Condensate resistance (W: wet;<br>D: dry)   |  |
| Corrosion resistance and inner<br>wall material   |  |
| Sootfire resistance (G: yes; O:<br>no) and distance to combustible<br>materials (in mm) |  |

**Compressive strength**  
Up to 27 m. See Annex

**Flow resistance**  
Inner roughness: 1 mm  
(according to EN 13384-1  
Standard)  
Flow resistance coefficients  $\zeta$   
according to EN 13384-1  
Standard

**Thermal resistance**  
0 m<sup>2</sup> K / W at reference  
temperature

**Mechanical resistance and  
stability**  
Non vertical installation: maximum  
deflection 90° and maximum  
length of the slope 1 m.  
Wind load resistance:  
Maximum length between  
supports 3 m.  
Maximum length from the last  
support 1,5 m. See Annex

**Wet working conditions:** Yes



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|     |  |                     |             |           |          |                  |               |
|-----|--|---------------------|-------------|-----------|----------|------------------|---------------|
| 0.1 | <b>Metal chimney</b><br>1.4521/444           | <b>EN</b><br>1856-1 | <b>T450</b> | <b>N1</b> | <b>W</b> | <b>V2-L99040</b> | <b>G(120)</b> |
| 0.2 | <b>Metal chimney with seal</b><br>1.4521/444 | <b>EN</b><br>1856-1 | <b>T200</b> | <b>P1</b> | <b>W</b> | <b>V2-L99040</b> | <b>O(50)</b>  |

|   |  |
|---|--|
| Product description   |  |
| Standard number   |  |
| Temperature level   |  |
| Pressure level  |  |
| Condensate resistance (W: wet; D: dry)  |  |
| Corrosion resistance and inner wall material                                      |  |
| Sootfire resistance (G: yes; O: no) and distance to combustible materials (in mm) |  |

**Compressive strength**  
Up to 27 m. See Annex

**Flow resistance**  
Inner roughness: 1 mm  
(according to EN 13384-1 Standard)  
Flow resistance coefficients  $\zeta$   
according to EN 13384-1 Standard

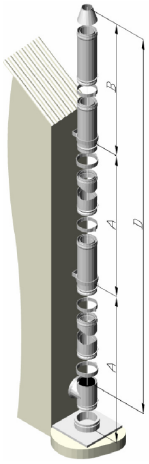
**Thermal resistance**  
0 m<sup>2</sup> K / W at reference temperature

**Mechanical resistance and stability**  
Non vertical installation: maximum deflection 90° and maximum length of the slope 1 m.  
Wind load resistance:  
Maximum length between supports 3 m.  
Maximum length from the last support 1,5 m. See Annex

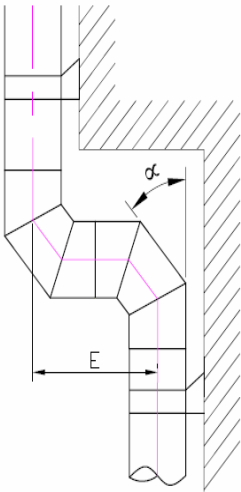
**Wet working conditions:** Yes

|      | Characteristics                              | Units              | Ref. EN 1856-1 | Values / Levels   |              |               | Remarks                  |
|------|--|--------------------|----------------|---|--------------|---------------|--------------------------|
| 1.0  | Nominal dimensions                           | mm                 | 4, 5           | 80, 100, 130  |              |               | See Annex                |
| 2.0  | Inner/outer diameter                         |                    |                | 80/125, 100//150, 130/200   |              |               |                          |
| 3.0  | Inner diameter (minimum)                     | mm                 | 4, 5           | 78,4; 98,4; 128,4   |              |               |                          |
| 4.0  | Inner wall material                          |                    | 4, 5, 6.5.2    |   |              |               |                          |
|      | Quality                                      |                    |                | 1.4404 / 316L   |              | 1.4521 / 444  |                          |
|      | Nominal thickness (minimum thickness)        | mm                 |                | 0,4 (0,34)  |              | 0,4 (0,34)    |                          |
|      | Description according to EN 1856-1           |                    |                | L50040  |              | L99040        |                          |
| 5.0  | Outer wall material                          |                    | 4, 5, 6.5.2    |   |              |               |                          |
|      | Quality                                      |                    |                | 1.4301 / 304  |              | 1.4404 / 316L |                          |
|      | Nominal thickness (minimum thickness)        | mm                 |                | 0,4 (0,34)  |              | 0,4 (0,34)    |                          |
|      | Description according to EN 1856-1           |                    |                | L20040  |              | L50040        |                          |
|      | Quality                                      |                    |                | 1.4521 / 444  | 1.4509 / 441 | 1.4075 / 430  |                          |
|      | Nominal thickness (minimum thickness)        | mm                 |                | 0,4 (0,34)  | 0,4 (0,34)   | 0,4 (0,34)    |                          |
|      | Description according to EN 1856-1           |                    |                | L99040  | L99040       | L99040        |                          |
| 6.0  | Insulation                                   |                    | 7.2            | None  |              |               |                          |
| 7.0  | Seals  |                    | 7.2            |   |              |               | <b>RP: IMQ-01SG00017</b> |
|      | Designation according to EN 14241-1 standard |                    |                | EN 14241-1 T200 W 2 K2 I  |              |               |                          |
|      | Density                                      | g/c m <sup>3</sup> |                | 1.20 ± 0.1  |              |               |                          |
|      | Hardness                                     | ShA                |                | 55-60   |              |               |                          |
|      | Lengthening strength to 100%                 | N/m m <sup>2</sup> |                | ≥ 1.2   |              |               |                          |
|      | Tensile strength                             | N/m m <sup>2</sup> |                | ≥ 4.5   |              |               |                          |
|      | Permanent deformation                        | %                  |                | ≤ 25  |              |               |                          |
|      | Nominal dimensions                           |                    |                | 80, 100, 130  |              |               |                          |
|      | <b>Mechanical resistance and stability</b>   |                    | 6.1            |   |              |               |                          |
| 8.0  | Compressive strength                         |                    | 6.1.1          | Up to 27 m.   |              |               | See Annex                |
| 9.0  | Tensile strength                             |                    | 6.1.2          | Up to 23 m.   |              |               | See Annex                |
| 10.0 | Wind load resistance                         |                    | 6.1.3.2        | Maximum length from the last support: 1,5 m.<br>Maximum length between supports: 3 m. |              |               | See Annex                |
|      | <b>Non vertical installation</b>             |                    | 6.1.3.1        |   |              |               |                          |

|      | Characteristics   | Units                      | Ref. EN 1856-1  | Values / Levels   | Remarks   |
|------|---|----------------------------|-----------------|---|---|
| 11.0 | Maximum deflection                                      |                            |                 | 90° (horizontal installation)   | See Annex   |
| 12.0 | Maximum length of the slope                             |                            |                 | 1 m.  | See Annex   |
| 13.1 | Gas tightness   |                            | 6.3             | Pressure level: N1  |   |
| 13.2 | Gas tightness   |                            | 6.3             | Pressure level: P1  |   |
| 14.1 | Distance to combustible materials at T450 with sootfire | mm                         | 6.2             | 120 (G120)  |   |
| 14.2 | Distance to combustible materials at T200               | mm                         | 6.2             | 50 (O50)  |   |
| 15.0 | Accidental human contact                                |                            | 6.4.2           | Protection in the traffic area is not needed (back ventilated air gap between de inner wall and the outer wall) |   |
| 16.0 | Thermal resistance                                      | m <sup>2</sup><br>K /<br>W | 6.4.3           | 0   |   |
| 17.0 | Condensate resistance                                   |                            | 6.4.4,<br>6.4.5 | Designation: W (wet)  |   |
| 18.0 | Resistance against rainwater penetration                |                            | 6.4.6           | Not apply (not insulated)   |   |
|      | <b>Flow resistance</b>                                  |                            | 6.4.7           |   |   |
| 19.0 | Mean value of roughness                                 | mm                         | 6.4.7.1         | 1 (according to EN 13384-1 standard)  |   |
| 20.0 | Coefficients of flow resistance for fittings            |                            | 6.4.7.2         | Values according to EN 13384-1 standard   |   |
|      | <b>Terminal</b>   |                            |                 |   |   |
| 21.0 | Coefficient of flow resistance                          |                            | 6.4.7.3         | Values according to EN 13384-1 standard   |   |
| 22.0 | Protection against rainwater                            |                            | 6.4.8.1         | N.P.D.  |   |
| 23.0 | Aerodynamic behavior                                    |                            | 6.4.8.2         | N.P.D.  |   |
|      |   |                            |                 |   |   |
| 24.0 | Corrosion resistance at inner wall                      |                            | 6.5.1           | 1.4404 / 316L<br>V2   | 1.4521 / 444<br>V2<br><b>RP: TÜV-A<br/>1439-00/05</b> |
| 25.0 | Freeze / thaw resistance                                |                            | 6.5.3           | Fulfilled according to EN 1856-1  |   |
| 26.0 | Dangerous substances                                    |                            | 7.2             | None  |   |
| 27.0 | Typical installation drawing                            |                            | 7.2             |   | See Annex   |
| 28.0 | Assembly instructions                                   |                            | 7.2             |   | See Annex   |
| 29.0 | Flow direction  |                            | 7.2             | Installation with the outer Female at the top   |   |
| 30.0 | Storage instructions                                    |                            | 7.2             | No corrosive atmosphere   |   |
| 31.0 | Method of application of any sealant required           |                            | 7.2             |   |   |



|         |                | COMPRESSIVE STRENGTH   | TENSILE STRENGTH |
|---------|----------------|--|------------------|
|         |                | Height – Size D (m)  | Height (m)       |
|         | Outer material | 1.4301 /304; 1.4404 / 316L; 1.4521 / 444; 1.4509 / 441; 1.4075 / 430 |                  |
| ND (mm) | 80             | 27   | 23               |
|         | 100            | 22   | 19               |
|         | 130            | 17   | 14               |



| NON VERTICAL INSTALLATION |                |  |  |
|---------------------------|----------------|--|--|
|                           |                | Maximum deflection $\alpha$ (°)                                      | Maximum length of the slope – Size E (m) |
|                           | Outer material | 1.4301 /304; 1.4404 / 316L; 1.4521 / 444; 1.4509 / 441; 1.4075 / 430 |  |
| ND (mm)                   | 80             | 90   | 1  |
|                           | 100            | 90   | 1  |
|                           | 130            | 90   | 1  |

| COMPRESSIVE STRENGTH OF THE SUPPORT |                |  |                             |
|-------------------------------------|----------------|--|-----------------------------|
| Height                              |                |  |                             |
|                                     | Outer material | 1.4301 /304; 1.4404 / 316L; 1.4521 / 444; 1.4509 / 441; 1.4075 / 430 |                             |
|                                     | Model          | Wall support 080   | Adjustable wall support 083 |
| ND (mm)                             | 80             | 6  | 6                           |
|                                     | 100            | 5  | 5                           |
|                                     | 130            | 4  | 4                           |