



DECLARATION OF PERFORMANCE

Cpr: Dopcpr01

1) Unique identification code of the product-type: **Metal Chimney System EN 1856-1:2009**

2) Trade name of the product: **EDW25, DW25, DWC25, Extetic, DW25AL**

(Designation 1)	EN 1856-1	T200	P1	W	V2	L50040	O30	for DN	80÷200	for DW25, DWC25, Extetic, DW25AL
(Designation 2)	EN 1856-1	T200	H1	W	V2	L50040	O30	for DN	80÷200	for DW25, DWC25, DW25AL
(Designation 1a)	EN 1856-1	T200	P1	W	V2	L50050	O30	for DN	250÷300	for DW25, DWC25, Extetic, DW25AL
(Designation 2a)	EN 1856-1	T200	H1	W	V2	L50050	O30	for DN	250÷300	for DW25, DWC25, DW25AL
(Designation 3)	EN 1856-1	T200	P1	W	V2	L50050	O45	for DN	350÷450	for DW25, DWC25, Extetic, DW25AL
(Designation 4)	EN 1856-1	T200	P1	W	V2	L50050	O60	for DN	500÷550	for DW25, DWC25, Extetic, DW25AL
(Designation 5)	EN 1856-1	T600	N1	W	V2	L50040	G70	for DN	80÷200	for DW25, DWC25, Extetic, DW25AL
(Designation 5a)	EN 1856-1	T600	N1	W	V2	L50050	G70	for DN	200÷300	for DW25, DWC25, Extetic, DW25AL
(Designation 6)	EN 1856-1	T600	N1	W	V2	L50050	G105	for DN	350÷450	for DW25, DWC25, Extetic, DW25AL
(Designation 7)	EN 1856-1	T600	N1	W	V2	L50050	G140	for DN	500÷550	for DW25, DWC25, Extetic, DW25AL
(Designation 8)	EN 1856-1	T600	N1	W	V2	L50060	G140	for DN	550÷600	for DW25, DWC25, Extetic, DW25AL
(Designation 9)	EN 1856-1	T600	N1	W	V2	L50060	G280	for DN	600÷800	for DW25, DWC25, Extetic, DW25AL
(Designation 10)	EN 1856-1	T600	N1	W	Vm	L20040	G70	for DN	80÷200	for EDW25
(Designation 10a)	EN 1856-1	T600	N1	W	Vm	L20050	G70	for DN	250÷300	for EDW25
(Designation 11)	EN 1856-1	T600	N1	W	Vm	L20050	G105	for DN	350÷450	for EDW25
(Designation 12)	EN 1856-1	T600	N1	W	Vm	L20050	G140	for DN	500÷550	for EDW25
(Designation 13)	EN 1856-1	T600	N1	W	Vm	L20060	G140	for DN	550÷600	for EDW25
(Designation 14)	EN 1856-1	T600	N1	W	Vm	L20060	G280	for DN	650÷800	for EDW25

3) Intended use or uses of the construction product, in accordance with the applicable harmonised technical specification, as foreseen by the manufacturer: Chimney System for convey the products of combustion from heating appliances to the outside atmosphere

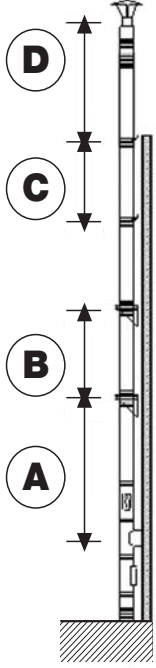
4) Name and contact address of the manufacturer: **Expo Inox S.p.a**, Viale Artigianato 6, Borgo San Siro (PV) - Italy

5) Name and contact address of the authorised representative: Not applicable

6) System or systems of assessment and verification of constancy of performance of the construction product: System 2+

7) The notified body KIWA CERMET ITALIA S.p.a, with identification number 0476, performed in accordance of System 2+ 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:

ESSENTIAL CHARACTERISTICS	PERFORMANCE	HARMONISED TECHNICAL SPECIFICATION																																																																																																																																																												
Compressive strength	 <p>A: maximum height reachable, using the Tee 90° element with a starting plate as base element B: maximum height supported by the intermediary plate element with supports pair C: maximum distance between two wall band D: maximum height reachable from last wall band</p> <table border="1"> <thead> <tr> <th rowspan="2">Diameter (mm)</th> <th colspan="4">Meters</th> </tr> <tr> <th>A</th> <th>B</th> <th>C</th> <th>D</th> </tr> </thead> <tbody> <tr><td>80</td><td>108</td><td>40</td><td>4</td><td>2</td></tr> <tr><td>100</td><td>92</td><td>35</td><td>4</td><td>2</td></tr> <tr><td>130</td><td>73</td><td>18</td><td>4</td><td>2</td></tr> <tr><td>150</td><td>66</td><td>15</td><td>4</td><td>2</td></tr> <tr><td>180</td><td>68</td><td>14</td><td>4</td><td>2</td></tr> <tr><td>200</td><td>62</td><td>13</td><td>4</td><td>2</td></tr> <tr><td>250</td><td>39</td><td>11</td><td>4</td><td>2</td></tr> <tr><td>300</td><td>33</td><td>9</td><td>3</td><td>2</td></tr> <tr><td>350</td><td>23</td><td>8</td><td>1</td><td>1*</td></tr> <tr><td>400</td><td>20</td><td>7</td><td>1</td><td>1*</td></tr> <tr><td>450</td><td>18</td><td>6</td><td>1</td><td>1*</td></tr> <tr><td>500</td><td>17</td><td>5</td><td>1</td><td>1*</td></tr> <tr><td>550</td><td>27</td><td>14</td><td>1</td><td>1</td></tr> <tr><td>600</td><td>26</td><td>13</td><td>1</td><td>1</td></tr> <tr><td>650</td><td>25</td><td>12</td><td>1</td><td>1</td></tr> <tr><td>700</td><td>23</td><td>11</td><td>1</td><td>1</td></tr> <tr><td>750</td><td>20</td><td>10</td><td>1</td><td>1</td></tr> <tr><td>800</td><td>20</td><td>8</td><td>1</td><td>1</td></tr> </tbody> </table> <p>* Use guy wire brackets These values are valid only in case of standard product, refer to the following table</p> <table border="1"> <thead> <tr> <th>Diameter</th> <th>Inlet thickness</th> <th>Outlet thickness</th> </tr> </thead> <tbody> <tr><td>80</td><td>4/10</td><td>4/10</td></tr> <tr><td>100</td><td>4/10</td><td>4/10</td></tr> <tr><td>130</td><td>4/10</td><td>4/10</td></tr> <tr><td>150</td><td>4/10</td><td>4/10</td></tr> <tr><td>180</td><td>4/10</td><td>4/10</td></tr> <tr><td>200</td><td>4/10</td><td>4/10</td></tr> <tr><td>250</td><td>5/10</td><td>5/10</td></tr> <tr><td>300</td><td>5/10</td><td>5/10</td></tr> <tr><td>350</td><td>5/10</td><td>5/10</td></tr> <tr><td>400</td><td>5/10</td><td>5/10</td></tr> <tr><td>450</td><td>5/10</td><td>5/10</td></tr> <tr><td>500</td><td>5/10</td><td>5/10</td></tr> <tr><td>550</td><td>6/10</td><td>6/10</td></tr> <tr><td>600</td><td>6/10</td><td>6/10</td></tr> <tr><td>650</td><td>6/10</td><td>6/10</td></tr> <tr><td>700</td><td>6/10</td><td>6/10</td></tr> <tr><td>750</td><td>6/10</td><td>6/10</td></tr> <tr><td>800</td><td>6/10</td><td>6/10</td></tr> </tbody> </table> <p>For further different thickness from table please contact Expo Technical Dept.</p>	Diameter (mm)	Meters				A	B	C	D	80	108	40	4	2	100	92	35	4	2	130	73	18	4	2	150	66	15	4	2	180	68	14	4	2	200	62	13	4	2	250	39	11	4	2	300	33	9	3	2	350	23	8	1	1*	400	20	7	1	1*	450	18	6	1	1*	500	17	5	1	1*	550	27	14	1	1	600	26	13	1	1	650	25	12	1	1	700	23	11	1	1	750	20	10	1	1	800	20	8	1	1	Diameter	Inlet thickness	Outlet thickness	80	4/10	4/10	100	4/10	4/10	130	4/10	4/10	150	4/10	4/10	180	4/10	4/10	200	4/10	4/10	250	5/10	5/10	300	5/10	5/10	350	5/10	5/10	400	5/10	5/10	450	5/10	5/10	500	5/10	5/10	550	6/10	6/10	600	6/10	6/10	650	6/10	6/10	700	6/10	6/10	750	6/10	6/10	800	6/10	6/10	EN 1856-1:2009
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Resistance to fire	(Designation 5, 5a, 10) G70 (Designation 6, 11) G105 (Designation 7, 8, 12, 13) G140 (Designation 9, 14) G280 (Designation 1, 2, 1a, 2a) O30 (Designation 3) O45, (Designation 4) O60	EN 1856-1:2009																																																																																																																																																												
Gas tightness / leakage	Designation (1, 1a, 3, 4) : P1 Designation (5+14) : N1 Designation (2, 2a) : H1	EN 1856-1:2009																																																																																																																																																												
Value of roughness	1 mm (according to EN 13384-1)	EN 1856-1:2009																																																																																																																																																												
Flow resistance of the elements	According to EN 13384-1	EN 1856-1:2009																																																																																																																																																												
Thermal resistance	0,35 m ² k/W	EN 1856-1:2009																																																																																																																																																												
Thermal shock resistance	(Designation 5, 5a, 6, 7, 8, 9, 10, 10a, 11, 12, 13, 14) : G	EN 1856-1:2009																																																																																																																																																												
Non vertical installation	Yes, maximum angle 90°	EN 1856-1:2009																																																																																																																																																												
Components subject to wind load	Yes, see point D of compressive strength	EN 1856-1:2009																																																																																																																																																												
Water and vapour diffusion resistance	W	EN 1856-1:2009																																																																																																																																																												
Durability against corrosion	Class V2 Class Vm (Designation 9+14)	EN 1856-1:2009																																																																																																																																																												
Freeze-thaw resistance	Pass	EN 1856-1:2009																																																																																																																																																												
Roof passing through module	When the systems EDW25, DW25, DWC25, Extetic, DW25AL is used in combination with the roof passing through module the designation G00 is guaranteed in the roof penetration area. The use of a double-walled system from other suppliers, which has a designation with regard to the distance to combustible materials of less than or equal to 70 mm, is permitted.																																																																																																																																																													

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.

(place and date of issue)
Borgo San Siro 1st of April 2016

(name and function)





DECLARATION OF PERFORMANCE

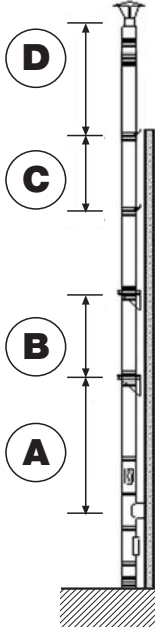
Cpr: Dopcpr02

- 1) Unique identification code of the product-type: **Metal Chimney System EN 1856-2, EN 1856-1**
- 2) Trade name of the product: **SW, ESW, SW BLACK, FEREX PELLET, FEREX LEGNA, SWCLICK, SMALTEX, FERELUX**

(Designation 1)	EN 1856-1 T200 P1 W V2 L50040 O 30	for DN 80+200 for SW, SW BLACK, SWCLICK
(Designation 1a)	EN 1856-1 T200 H1 W V2 L50040 O 30	for DN 80+200 for SW
(Designation 2)	EN 1856-1 T200 P1 W V2 L50050 O30	for DN 220+500 for SW
(Designation 2a)	EN 1856-1 T200 H1 W V2 L50050 O30	for DN 220+300 for SW
(Designation 3)	EN 1856-2 T600 N1 W V2 L50040 G	for DN 80+200 for SW, SWCLICK
(Designation 4)	EN 1856-2 T600 N1 W V2 L50040 G500M	for DN 80+200 for SW, SWCLICK
(Designation 5)	EN 1856-2 T600 N1 W V2 L50050 G	for DN 220+500 for SW
(Designation 6)	EN 1856-2 T600 N1 W V2 L50050 G500M	for DN 220+500 for SW
(Designation 7)	EN 1856-2 T600 N1 W V2 L50060 G	for DN 550+900 for SW
(Designation 8)	EN 1856-2 T600 N1 D V2 L50060 G500M	for DN 550+900 for SW
(Designation 9)	EN 1856-2 T600 N1 W Vm L20040 G	for DN 80+200 for ESW
(Designation 10)	EN 1856-2 T600 N1 D Vm L20040 G500M	for DN 80+200 for ESW
(Designation 11)	EN 1856-2 T600 N1 W Vm L20050 G	for DN 220+500 for ESW
(Designation 12)	EN 1856-2 T600 N1 D Vm L20050 G500M	for DN 220+500 for ESW
(Designation 13)	EN 1856-2 T600 N1 W Vm L20060 G	for DN 550+900 for ESW
(Designation 14)	EN 1856-2 T600 N1 D Vm L20060 G500M	for DN 550+900 for ESW
(Designation 15)	EN 1856-2 T450 N1 W V2 L50040 G	for DN 80+200 for SW BLACK
(Designation 16)	EN 1856-2 T450 N1 W V2 L50040 G800M	for DN 80+200 for SW BLACK
(Designation 17)	EN 1856-2 T200 P1 W Vm L01120 O30	for DN 80+100 for Ferex Pellet
(Designation 18)	EN 1856-2 T600 N1 D Vm L01200 GXXXNM	for DN 120+180 for Ferex Legna
(Designation 19)	EN 1856-2 T600 N1 D Vm L01200 G800M	for DN 200 for Ferex Legna
(Designation 20)	EN 1856-2 T600 N1 D Vm L01120 GXXXNM	for DN 80+120 for Ferex Pellet
(Designation 21)	EN 1856-2 T200 P1 D V2 L80120 O30M	for DN 80+100 for Smaltex
(Designation 22)	EN 1856-2 T200 N1 D V2 L80120 GXXXNM	for DN 80+100 for Smaltex
(Designation 23)	EN 1856-2 T600 N1 D V2 L80120 GXXXNM	for DN 80+100 for Smaltex
(Designation 24)	EN 1856-2 T600 N1 D V2 L80200 GXXXNM	for DN 120+180 for Smaltex
(Designation 25)	EN 1856-2 T600 N1 D V2 L80200 G800M	for DN 200 for Smaltex
(Designation 26)	EN 1856-2 T200 P1 W V2 L80080 O30M	for DN 80+120 for Smaltex
(Designation 27)	EN 1856-2 T200 N1 W V2 L80080 G375NM CG	for DN 80+120 for Smaltex
(Designation 28)	EN 1856-2 T600 N1 W V2 L80080 G375NM	for DN 80+120 for Smaltex
(Designation 29)	EN 1856-2 T200 P1 W V2 L80120 O30M	for DN 80+120 for Ferelux
(Designation 30)	EN 1856-2 T200 N1 W V2 L80120 G375NM CG	for DN 80+120 for Ferelux
(Designation 31)	EN 1856-2 T600 N1 W V2 L80120 G375NM	for DN 80+120 for Ferelux

- 3) Intended use or uses of the construction product, in accordance with the applicable harmonised technical specification, as foreseen by the manufacturer: Chimney System for convey the products of combustion from heating appliances to the outside atmosphere
- 4) Name and contact address of the manufacturer: **Expo Inox S.p.a**, Viale Artigianato 6, Borgo San Siro (PV) - Italy
- 5) Name and contact address of the authorised representative: Not applicable
- 6) System or systems of assessment and verification of constancy of performance of the construction product: System 2+
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ESSENTIAL CHARACTERISTICS	PERFORMANCE	HARMONISED TECHNICAL SPECIFICATION																																																																																																																																																
Compressive strength, Tensile strength, Resistance to side winds	 <p>A: maximum height reachable, using the Tee 90° element with a starting plate as base element B: maximum height supported by the intermediary plate element with supports pair C: maximum distance between two wall band D: maximum height reachable from last wall band</p> <table border="1"> <thead> <tr> <th rowspan="2">Diameter (mm)</th> <th colspan="4">Meters</th> </tr> <tr> <th>A</th> <th>B</th> <th>C</th> <th>D</th> </tr> </thead> <tbody> <tr><td>80</td><td>164</td><td>79</td><td>4</td><td>1.5</td></tr> <tr><td>97</td><td>142</td><td>69</td><td>4</td><td>1.5</td></tr> <tr><td>100</td><td>140</td><td>68</td><td>4</td><td>1.5</td></tr> <tr><td>110</td><td>127</td><td>61</td><td>4</td><td>1.5</td></tr> <tr><td>120</td><td>116</td><td>56</td><td>4</td><td>1.5</td></tr> <tr><td>125</td><td>110</td><td>54</td><td>4</td><td>1.5</td></tr> <tr><td>130</td><td>107</td><td>52</td><td>4</td><td>1.5</td></tr> <tr><td>140</td><td>100</td><td>48</td><td>4</td><td>1.5</td></tr> <tr><td>150</td><td>93</td><td>36</td><td>4</td><td>1.5</td></tr> <tr><td>155</td><td>88</td><td>34</td><td>4</td><td>1.5</td></tr> <tr><td>160</td><td>97</td><td>33</td><td>4</td><td>1.5</td></tr> <tr><td>180</td><td>86</td><td>30</td><td>4</td><td>1.5</td></tr> <tr><td>200</td><td>77</td><td>27</td><td>4</td><td>1.5</td></tr> <tr><td>220</td><td>70</td><td>24</td><td>4</td><td>1.5</td></tr> <tr><td>230</td><td>63</td><td>20</td><td>4</td><td>1.5</td></tr> <tr><td>250</td><td>62</td><td>21</td><td>4</td><td>1.5</td></tr> <tr><td>300</td><td>60</td><td>15</td><td>3</td><td>1.5</td></tr> <tr><td>350</td><td>46</td><td>31</td><td>1</td><td>1</td></tr> <tr><td>400</td><td>41</td><td>27</td><td>1</td><td>1</td></tr> <tr><td>450</td><td>36</td><td>24</td><td>1</td><td>1</td></tr> <tr><td>500</td><td>33</td><td>21</td><td>1</td><td>1</td></tr> <tr><td>550</td><td>19</td><td>20</td><td>1</td><td>1</td></tr> <tr><td>600</td><td>18</td><td>18</td><td>1</td><td>1</td></tr> <tr><td>650</td><td>16</td><td>16</td><td>1</td><td>1</td></tr> <tr><td>700</td><td>15</td><td>15</td><td>1</td><td>1</td></tr> <tr><td>750</td><td>14</td><td>14</td><td>1</td><td>1</td></tr> <tr><td>800</td><td>13</td><td>13</td><td>1</td><td>1</td></tr> </tbody> </table>	Diameter (mm)	Meters				A	B	C	D	80	164	79	4	1.5	97	142	69	4	1.5	100	140	68	4	1.5	110	127	61	4	1.5	120	116	56	4	1.5	125	110	54	4	1.5	130	107	52	4	1.5	140	100	48	4	1.5	150	93	36	4	1.5	155	88	34	4	1.5	160	97	33	4	1.5	180	86	30	4	1.5	200	77	27	4	1.5	220	70	24	4	1.5	230	63	20	4	1.5	250	62	21	4	1.5	300	60	15	3	1.5	350	46	31	1	1	400	41	27	1	1	450	36	24	1	1	500	33	21	1	1	550	19	20	1	1	600	18	18	1	1	650	16	16	1	1	700	15	15	1	1	750	14	14	1	1	800	13	13	1	1	EN 1856-1:2009
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750	14	14	1	1																																																																																																																																														
800	13	13	1	1																																																																																																																																														
Non vertical installation	For Dn 60+300 - 3 m between supports for SW, ESW, SW BLACK, SWCLICK	EN 1856-2:2009																																																																																																																																																
Resistance to fire	(Designation 3+16, 18, 19, 20, 23, 24, 25) G (Designation 1, 1a, 2a, 2, 17, 21, 22) O	EN 1856-2:2009																																																																																																																																																
Gas tightness / leakage	Designation 1, 2, 17, 21, 26, 29 : P1 Designation 1a, 2a : H1 (Designation 3+16, 18, 19, 20, 23, 24, 25, 27, 28, 30, 31) : N1	EN 1856-2:2009																																																																																																																																																
Value of roughness	1 mm (according to EN 13384-1)	EN 1856-2:2009																																																																																																																																																
Flow resistance of the elements	According to EN 13384-1	EN 1856-2:2009																																																																																																																																																
Thermal resistance	0.0 m ² C / W	EN 1856-2:2009																																																																																																																																																
Thermal shock resistance	(Designation 1, 1a, 2, 2a, 3, 17, 21, 26, 29) : O30	EN 1856-2:2009																																																																																																																																																
Temperature class	Temperature class: T200 (Designation 3, 5, 7, 9, 11, 13, 15) G distance combustible material not applicable (Designation 4, 6, 8, 10, 12, 14) G500M (Designation 16, 19, 25) G800M (Designation 18, 20, 22, 23, 24) GXXNM for DN 80+180 (Designation 27, 28, 30, 31) G375NM Temperature class: T600	EN 1856-2:2009																																																																																																																																																
Water and vapour diffusion resistance	(Designation 1+7, 9, 11, 13, 15, 17, 21) : W (Designation 8, 10, 12, 14, 18, 19, 20, 22, 23, 24, 25, 26, 27, 28, 30, 31) : D	EN 1856-2:2009																																																																																																																																																
Durability against corrosion	Class V2 for designation 1+8, 15, 16, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31 Class Vm for designation 9+14, 17+20	EN 1856-2:2009																																																																																																																																																
Freeze-thaw resistance	Pass	EN 1856-2:2009																																																																																																																																																

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.

(place and date of issue)

Borgo San Siro 1st of April 2016

(name and function)





DECLARATION OF PERFORMANCE

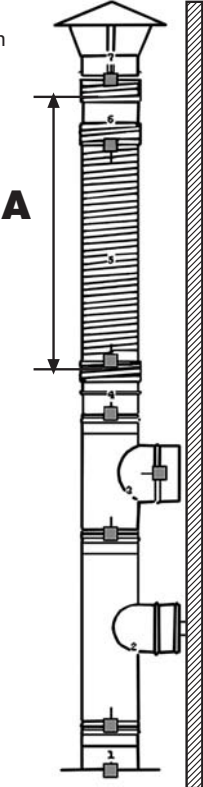
Cpr: Dopcpr03

- 1) Unique identification code of the product-type: **Metal Chimney System EN 1856-2**
- 2) Trade name of the product: **Expoflex, Expoflex (Flexy), Flexeco, Corrflex, Extraflex**

(Designation 1)	EN 1856-2	T200 P1 W V2	L50010/12	O	for DN 50÷160	for Expoflex
(Designation 2)	EN 1856-2	T600 N1 W V2	L50010/12	G	for DN 50÷400	for Expoflex
(Designation 3)	EN 1856-2	T600 N1 W V2	L70010/12	G	for DN 50÷400	for Extraflex
(Designation 4)	EN 1856-2	T200 P1 W V2	L70010/12	O	for DN 50÷160	for Extraflex
(Designation 5)	EN 1856-2	T600 N1 W Vm	L20010/12	O	for DN 60÷400	for Flex Eco
(Designation 6)	EN 1856-2	T120 P1 W V2	L50012	O	for DN 50÷80	for Expoflex (Flexy)
(Designation 7)	EN 1856-2	T200 P1 D V2	L50010/12	O	for DN 50÷160	for Corrflex
(Designation 8)	EN 1856-2	T600 N1 D V2	L50010/12	G	for DN 50÷400	for Corrflex

- 3) Intended use or uses of the construction product, in accordance with the applicable harmonised technical specification, as foreseen by the manufacturer: Chimney System for convey the products of combustion from heating appliances to the outside atmosphere
- 4) Name and contact address of the manufacturer: **Expo Inox S.p.a**, Viale Artigianato 6, Borgo San Siro (PV) - Italy
- 5) Name and contact address of the authorised representative: Not applicable
- 6) System or systems of assessment and verification of constancy of performance of the construction product: System 2+
- 7) The notified body KIWA CERMET ITALIA S.p.a, with identification number 0476, performed in accordance of System 2+ 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:

ESSENTIAL CHARACTERISTICS	PERFORMANCE	HARMONISED TECHNICAL SPECIFICATION																																																																																													
<p>Compressive strength, tensile resistance and torsion strength</p> 	<p>A: maximum height reachable in meters.</p> <table border="1"> <thead> <tr> <th>Diameter (mm)</th> <th>Thickness 0,10 mm</th> <th>Thickness 0,12 mm</th> </tr> </thead> <tbody> <tr><td>50</td><td>110</td><td>97</td></tr> <tr><td>60</td><td>110</td><td>97</td></tr> <tr><td>80</td><td>110</td><td>97</td></tr> <tr><td>100</td><td>94</td><td>84</td></tr> <tr><td>110</td><td>88</td><td>79</td></tr> <tr><td>120</td><td>84</td><td>75</td></tr> <tr><td>130</td><td>79</td><td>71</td></tr> <tr><td>140</td><td>76</td><td>68</td></tr> <tr><td>150</td><td>73</td><td>66</td></tr> <tr><td>160</td><td>70</td><td>63</td></tr> <tr><td>180</td><td>66</td><td>60</td></tr> <tr><td>200</td><td>62</td><td>57</td></tr> <tr><td>220</td><td>59</td><td>54</td></tr> <tr><td>250</td><td>56</td><td>51</td></tr> <tr><td>280</td><td>53</td><td>49</td></tr> <tr><td>300</td><td>51</td><td>48</td></tr> <tr><td>350</td><td>48</td><td>45</td></tr> <tr><td>400</td><td>46</td><td>43</td></tr> </tbody> </table> <p>* Maximum applicable torsion strength.</p> <table border="1"> <thead> <tr> <th>Diameter (mm)</th> <th>Torsion Strength [kg.m]</th> </tr> </thead> <tbody> <tr><td>50</td><td>1,7</td></tr> <tr><td>60</td><td>1,8</td></tr> <tr><td>80</td><td>2,0</td></tr> <tr><td>100</td><td>2,5</td></tr> <tr><td>120</td><td>3,1</td></tr> <tr><td>130</td><td>3,3</td></tr> <tr><td>140</td><td>3,6</td></tr> <tr><td>150</td><td>3,8</td></tr> <tr><td>160</td><td>4,1</td></tr> <tr><td>180</td><td>4,6</td></tr> <tr><td>200</td><td>5,1</td></tr> <tr><td>220</td><td>5,6</td></tr> <tr><td>250</td><td>6,4</td></tr> <tr><td>280</td><td>7,1</td></tr> <tr><td>300</td><td>7,6</td></tr> <tr><td>350</td><td>8,9</td></tr> <tr><td>400</td><td>10,2</td></tr> </tbody> </table>	Diameter (mm)	Thickness 0,10 mm	Thickness 0,12 mm	50	110	97	60	110	97	80	110	97	100	94	84	110	88	79	120	84	75	130	79	71	140	76	68	150	73	66	160	70	63	180	66	60	200	62	57	220	59	54	250	56	51	280	53	49	300	51	48	350	48	45	400	46	43	Diameter (mm)	Torsion Strength [kg.m]	50	1,7	60	1,8	80	2,0	100	2,5	120	3,1	130	3,3	140	3,6	150	3,8	160	4,1	180	4,6	200	5,1	220	5,6	250	6,4	280	7,1	300	7,6	350	8,9	400	10,2	<p>EN 1856-2:2009</p>
Diameter (mm)	Thickness 0,10 mm	Thickness 0,12 mm																																																																																													
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Flexibility	Maximum inclination 45°	EN 1856-2:2009																																																																																													
Pulling force	Pass																																																																																														
Resistance to fire	(Designation 2, 3, 5, 8) G (Designation 1, 4, 5, 6, 7) O (Designation 2, 3, 5, 8) T600	EN 1856-2:2009																																																																																													
Temperature class	(Designation 1, 4, 7) T200 (Designation 6) T120	EN 1856-2:2009																																																																																													
Gas tightness / leakage	Designation 1, 4 : P1 Designation 2, 3, 5) : N1	EN 1856-2:2009																																																																																													
Value of roughness	1 mm (according to EN 13384-1)	EN 1856-2:2009																																																																																													
Flow resistance of the elements	According to EN 13384-1	EN 1856-2:2009																																																																																													
Thermal resistance	0.0 m ² C / W	EN 1856-2:2009																																																																																													
Components subject to wind load	Pass	EN 1856-2:2009																																																																																													
Water and vapour diffusion resistance	Pass	EN 1856-2:2009																																																																																													
Durability against corrosion	Class V2 Class Vm for designation 5	EN 1856-2:2009																																																																																													
Freeze-thaw resistance	Pass	EN 1856-2:2009																																																																																													

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.

(place and date of issue)

Borgo San Siro 1st of April 2016

(name and function)





DECLARATION OF PERFORMANCE

Cpr: Dopcpr04

1) Unique identification code of the product-type: **Chimney System with rigid or flexible inner liner and accessories made of polypropylene EN14471:2013-A12015**

2) Trade name of the product: **Plast'in, Plast'inox, Bivent, KITex**

(Designation 1)	EN 14471	T120 O P1 W 2	O00 I E U /U0	for DN 60÷100 mm	(Plast'in) KITex
(Designation 2)	EN 14471	T120 O H1 W 2	O00 I E U /U0	for DN 60÷100 mm	(Plast'in)
(Designation 3)	EN 14471	T120 O P1 W 2	O00 I E U /U0	for DN 110÷160 mm	(Plast'in)
(Designation 4)	EN 14471	T120 O H1 W 2	O00 I E U /U0	for DN 110÷160 mm	(Plast'in)
(Designation 5)	EN 14471	T120 O P1 W 2	O00 I E U /U0	for DN 175÷ 200 mm	(Plast'in)
(Designation 6)	EN 14471	T120 O H1 W 2	O00 I E U /U0	for DN 175÷ 200 mm	(Plast'in)
(Designation 7)	EN 14471	T120 O P1 W 2	O00 I E U /U0		(Plast'in)
(Designation 8)	EN 14471	T120 O P1 W 2	O00 I E U0	for DN 60/80÷80/100	(Plast'inox)
(Designation 9)	EN 14471	T120 O H1 W 2	O00 I E U0	for DN 60/100÷80/125	(Bivent)
(Designation10)	EN 14471	T120 O P1 W 2	O00 I E U0	for DN 60/100÷80/125	(Bivent)

3) Intended use or uses of the construction product, in accordance with the applicable harmonised technical specification, as foreseen by the manufacturer: Chimney System for convey the products of combustion from heating appliances to the outside atmosphere

4) Name and contact address of the manufacturer: **Expo Inox S.p.a**, Viale Artigianato 6, Borgo San Siro (PV) - Italy

5) Name and contact address of the authorised representative: Not applicable

6) System or systems of assessment and verification of constancy of performance of the construction product: System 2+, 3

7) The notified body KIWA CERMET ITALIA S.p.a, with identification number 0476, performed in accordance of System 2+ 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:

ESSENTIAL CHARACTERISTICS	PERFORMANCE	HARMONISED TECHNICAL SPECIFICATION
Compressive strength	Pass	EN 14471:2013-A12015
Resistance to fire	O	EN 14471:2013-A12015
Temperature class	(Designation 1+10) T120	
Gas tightness / leakage	Designation (1, 3, 5, 7, 8, 10) P1 Designation (2, 4, 6, 9) H1	EN 14471:2013-A12015
Components subject to wind load	Pass	EN 14471:2013-A12015
Durability against chemicals		EN 14471:2013-A12015
Condensate and water resistance	W	
Bending and tensile resistance	Pass	
Long-term thermal resistance	2	
Condensate resistance	Pass	
Durability against UV	Designation (1+7): not allowed Designation (8+10): allowed	EN 14471:2013-A12015
Durability against thermal load	Pass	EN 14471:2013-A12015

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.

(place and date of issue)

Borgo San Siro 1st of October 2017

(name and function)



DECLARATION OF PERFORMANCE

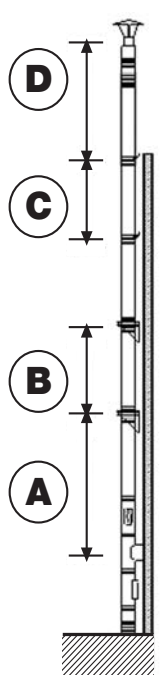
Cpr: Dopcpr06

- 1) Unique identification code of the product-type: **Metal Chimney System EN 1856-1**
2) Trade name of the product: **SDW50, SDWC50, Extetic, Cerex**

(Designation 1)	EN 1856-1	T200 P1 W V2 L50040 O30	for DN 80÷200	for SDW50, SDWC50, Extetic, Cerex
(Designation 1a)	EN 1856-1	T200 P1 W V2 L50050 O30	for DN 200÷300	for SDW50, SDWC50, Extetic, Cerex
(Designation 2)	EN 1856-1	T200 P1 W V2 L50050 O45	for DN 350÷450	for SDW50, SDWC50, Extetic, Cerex
(Designation 3)	EN 1856-1	T200 P1 W V2 L50050 O60	for DN 500÷550	for SDW50, SDWC50, Extetic, Cerex
(Designation 3a)	EN 1856-1	T200 P1 W V2 L50060 O120	for DN 600÷800	for SDW50, SDWC50, Extetic, Cerex
(Designation 4)	EN 1856-1	T600 N1 W V2 L50040 G50	for DN 80÷300	for SDW50, SDWC50, Extetic, Cerex
(Designation 5)	EN 1856-1	T600 N1 W V2 L50050 G75	for DN 350÷450	for SDW50, SDWC50, Extetic, Cerex
(Designation 6)	EN 1856-1	T600 N1 W V2 L50050 G100	for DN 500÷550	for SDW50, SDWC50, Extetic, Cerex
(Designation 7)	EN 1856-1	T600 N1 W V2 L50060 G100	for DN 550÷600	for SDW50, SDWC50, Extetic, Cerex
(Designation 8)	EN 1856-1	T600 N1 W V2 L50060 G200	for DN 650÷800	for SDW50, SDWC50, Extetic, Cerex
(Designation 9)	EN 1856-1	T200 H1 W V2 L50040 O30	for DN 80÷200	for SDW50, SDWC50, Extetic
(Designation 10)	EN 1856-1	T200 H1 W V2 L50050 O30	for DN 200÷300	for SDW50, SDWC50, Extetic

- 3) Intended use or uses of the construction product, in accordance with the applicable harmonised technical specification, as foreseen by the manufacturer: Chimney System for convey the products of combustion from heating appliances to the outside atmosphere
- 4) Name and contact address of the manufacturer: **Expo Inox S.p.a**, Viale Artigianato 6, Borgo San Siro (PV) - Italy
- 5) Name and contact address of the authorised representative: Not applicable
- 6) System or systems of assessment and verification of constancy of performance of the construction product: System 2+, 4
- 7) The notified body KIWA CERMET ITALIA S.p.a, with identification number 0476, performed in accordance of System 2+ 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:

ESSENTIAL CHARACTERISTICS	PERFORMANCE	HARMONISED TECHNICAL SPECIFICATION																																																																																																																																																												
Compressive strength	 <p>A: maximum height reachable, using the Tee 90° element with a starting plate as base element B: maximum height supported by the intermediary plate element with supports pair C: maximum distance between two wall band D: maximum height reachable from last wall band</p> <table border="1"> <thead> <tr> <th rowspan="2">Diameter (mm)</th> <th colspan="4">Meters</th> </tr> <tr> <th>A</th> <th>B</th> <th>C</th> <th>D</th> </tr> </thead> <tbody> <tr><td>80</td><td>72</td><td>26</td><td>4</td><td>2</td></tr> <tr><td>100</td><td>63</td><td>24</td><td>4</td><td>2</td></tr> <tr><td>130</td><td>52</td><td>18</td><td>4</td><td>2</td></tr> <tr><td>150</td><td>47</td><td>11</td><td>4</td><td>2</td></tr> <tr><td>180</td><td>42</td><td>9</td><td>4</td><td>2</td></tr> <tr><td>200</td><td>39</td><td>9</td><td>4</td><td>2</td></tr> <tr><td>250</td><td>30</td><td>8</td><td>4</td><td>2</td></tr> <tr><td>300</td><td>25</td><td>6</td><td>3</td><td>2</td></tr> <tr><td>350</td><td>23</td><td>8</td><td>1</td><td>1*</td></tr> <tr><td>400</td><td>20</td><td>7</td><td>1</td><td>1*</td></tr> <tr><td>450</td><td>18</td><td>6</td><td>1</td><td>1*</td></tr> <tr><td>500</td><td>17</td><td>5</td><td>1</td><td>1*</td></tr> <tr><td>550</td><td>22</td><td>8</td><td>1</td><td>1*</td></tr> <tr><td>600</td><td>20</td><td>8</td><td>1</td><td>1*</td></tr> <tr><td>650</td><td>20</td><td>7</td><td>1</td><td>1*</td></tr> <tr><td>700</td><td>18</td><td>7</td><td>1</td><td>1*</td></tr> <tr><td>750</td><td>17</td><td>6</td><td>1</td><td>1*</td></tr> <tr><td>800</td><td>15</td><td>6</td><td>1</td><td>1*</td></tr> </tbody> </table> <p>* Use guy wire brackets These values are valid only in case of standard product, refer to the following table</p> <table border="1"> <thead> <tr> <th>Diameter</th> <th>Inlet thickness</th> <th>Outlet thickness</th> </tr> </thead> <tbody> <tr><td>80</td><td>4/10</td><td>4/10</td></tr> <tr><td>100</td><td>4/10</td><td>4/10</td></tr> <tr><td>130</td><td>4/10</td><td>4/10</td></tr> <tr><td>150</td><td>4/10</td><td>4/10</td></tr> <tr><td>180</td><td>4/10</td><td>4/10</td></tr> <tr><td>200</td><td>4/10</td><td>4/10</td></tr> <tr><td>250</td><td>5/10</td><td>5/10</td></tr> <tr><td>300</td><td>5/10</td><td>5/10</td></tr> <tr><td>350</td><td>5/10</td><td>5/10</td></tr> <tr><td>400</td><td>5/10</td><td>5/10</td></tr> <tr><td>450</td><td>5/10</td><td>5/10</td></tr> <tr><td>500</td><td>5/10</td><td>5/10</td></tr> <tr><td>550</td><td>6/10</td><td>6/10</td></tr> <tr><td>600</td><td>6/10</td><td>6/10</td></tr> <tr><td>650</td><td>6/10</td><td>6/10</td></tr> <tr><td>700</td><td>6/10</td><td>6/10</td></tr> <tr><td>750</td><td>6/10</td><td>6/10</td></tr> <tr><td>800</td><td>6/10</td><td>6/10</td></tr> </tbody> </table> <p>For further different thickness from table please contact Expro Technical Dept.</p>	Diameter (mm)	Meters				A	B	C	D	80	72	26	4	2	100	63	24	4	2	130	52	18	4	2	150	47	11	4	2	180	42	9	4	2	200	39	9	4	2	250	30	8	4	2	300	25	6	3	2	350	23	8	1	1*	400	20	7	1	1*	450	18	6	1	1*	500	17	5	1	1*	550	22	8	1	1*	600	20	8	1	1*	650	20	7	1	1*	700	18	7	1	1*	750	17	6	1	1*	800	15	6	1	1*	Diameter	Inlet thickness	Outlet thickness	80	4/10	4/10	100	4/10	4/10	130	4/10	4/10	150	4/10	4/10	180	4/10	4/10	200	4/10	4/10	250	5/10	5/10	300	5/10	5/10	350	5/10	5/10	400	5/10	5/10	450	5/10	5/10	500	5/10	5/10	550	6/10	6/10	600	6/10	6/10	650	6/10	6/10	700	6/10	6/10	750	6/10	6/10	800	6/10	6/10	EN 1856-1:2009
Diameter (mm)	Meters																																																																																																																																																													
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Resistance to fire	(Designation 4) G50 (Designation 5) G75 (Designation 6) G100 (Designation 7) G100 (Designation 8) G200 (Designation 1,1a, 9,10) O30 (Designation 2) O45, (Designation 3) O60 (Designation 3a) O120	EN 1856-1:2009																																																																																																																																																												
Gas tightness / leakage	Designation 1+3a : P1 Designation 4+8 : N1 Designation 9+10 : H1	EN 1856-1:2009																																																																																																																																																												
Value of roughness	1 mm (according to EN 13384-1)	EN 1856-1:2009																																																																																																																																																												
Flow resistance of the elements	According to EN13384-1	EN 1856-1:2009																																																																																																																																																												
Thermal resistance	0,56 m ² k/W	EN 1856-1:2009																																																																																																																																																												
Thermal shock resistance	Designation (4, 5, 6, 7, 8) G Designation (1, 1a, 2, 3, 3a, 9, 10) O	EN 1856-1:2009																																																																																																																																																												
Non vertical installation	Yes, maximum angle 90°	EN 1856-1:2009																																																																																																																																																												
Components subject to wind load	Yes, see point D of compressive strength	EN 1856-1:2009																																																																																																																																																												
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Durability against corrosion	Class V2	EN 1856-1:2009																																																																																																																																																												
Freeze-thaw resistance	Pass	EN 1856-1:2009																																																																																																																																																												
Roof passing through module	When the systems SDW50, SDWC50, Extetic, Cerex used in combination with the roof passing through module the designation G00 is guaranteed in the roof penetration area. The use of a double-walled system from other suppliers, which has a designation with regard to the distance to combustible materials of less than or equal to 70 mm, is permitted.																																																																																																																																																													

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.

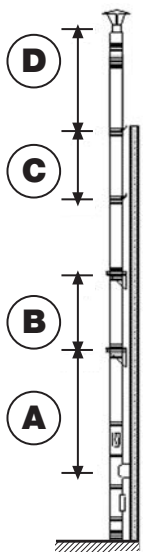
(place and date of issue)

Borgo San Siro 1st of April 2016

(name and function)



- 1) Unique identification code of the product-type: **Metal Chimney System EN 1856-1, EN 1856-2**
 - 2) Trade name of the product: **ADW10, ADWC10, EADW10**
- | | | | | | |
|-----------------|-----------|--------------|--------------|---------------|-------------------|
| (Designation 1) | EN 1856-1 | T200 P1 W V2 | L50040 O30 | for DN 80÷300 | for ADW10, ADWC10 |
| (Designation 2) | EN 1856-2 | T600 N1 W V2 | L50040 G500M | for DN 80÷300 | for ADW10, ADWC10 |
| (Designation 3) | EN 1856-2 | T600 N1 W V2 | L50040 G | for DN 80÷300 | for ADW10, ADWC10 |
| (Designation 4) | EN 1856-1 | T200 P1 W Vm | L20040 O30 | for DN 80÷300 | for EADW10 |
- 3) Intended use or uses of the construction product, in accordance with the applicable harmonised technical specification, as foreseen by the manufacturer: Chimney System for convey the products of combustion from heating appliances to the outside atmosphere
 - 4) Name and contact address of the manufacturer: **Expo Inox S.p.a**, Viale Artigianato 6, Borgo San Siro (PV) - Italy
 - 5) Name and contact address of the authorised representative: Not applicable
 - 6) System or systems of assessment and verification of constancy of performance of the construction product: System 2+
 - 7) The notified body KIWA CERMET ITALIA S.p.a, with identification number 0476, performed in accordance of System 2+ 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:

ESSENTIAL CHARACTERISTICS	PERFORMANCE	HARMONISED TECHNICAL SPECIFICATION																																													
Compressive strength	 <p>A: maximum height reachable, using the Tee 90° element with a starting plate as base element B: maximum height supported by the intermediary plate element with supports pair C: maximum distance between two wall band D: maximum height reachable from last wall band</p> <table border="1"> <thead> <tr> <th>Diameter (mm)</th> <th colspan="4">Meters</th> </tr> <tr> <th></th> <th>A</th> <th>B</th> <th>C</th> <th>D</th> </tr> </thead> <tbody> <tr><td>80</td><td>77</td><td>37</td><td>4</td><td>1.5</td></tr> <tr><td>100</td><td>63</td><td>31</td><td>4</td><td>1.5</td></tr> <tr><td>130</td><td>49</td><td>24</td><td>4</td><td>1.5</td></tr> <tr><td>160</td><td>41</td><td>20</td><td>4</td><td>1.5</td></tr> <tr><td>180</td><td>36</td><td>14</td><td>4</td><td>1.5</td></tr> <tr><td>200</td><td>34</td><td>12</td><td>4</td><td>1.5</td></tr> <tr><td>230</td><td>32</td><td>11</td><td>4</td><td>1.5</td></tr> </tbody> </table>	Diameter (mm)	Meters					A	B	C	D	80	77	37	4	1.5	100	63	31	4	1.5	130	49	24	4	1.5	160	41	20	4	1.5	180	36	14	4	1.5	200	34	12	4	1.5	230	32	11	4	1.5	EN 1856-1:2009, EN 1856-2:2009
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Resistance to fire	(Designation: 1, 4) O30 (Designation: 2) G500M (Designation: 3) G	EN 1856-1:2009, EN 1856-2:2009																																													
Gas tightness / leakage	Designation 1, 4 : P1 Designation 2, 3 : N1	EN 1856-1:2009, EN 1856-2:2009																																													
Value of roughness	1 mm (according to EN 13384-1)	EN 1856-1:2009, EN 1856-2:2009																																													
Flow resistance of the elements	According to EN 13384-1	EN 1856-1:2009, EN 1856-2:2009																																													
Thermal resistance	0,20 m ² k/W	EN 1856-1:2009, EN 1856-2:2009																																													
Thermal shock resistance	(Designation 2, 3) G	EN 1856-1:2009, EN 1856-2:2009																																													
Non vertical installation	Yes, maximum angle: 90°	EN 1856-1:2009, EN 1856-2:2009																																													
Components subject to wind load	Yes, see point D of compressive strength	EN 1856-1:2009, EN 1856-2:2009																																													
Water and vapour diffusion resistance	W	EN 1856-1:2009, EN 1856-2:2009																																													
Durability against corrosion	Class V2	EN 1856-1:2009, EN 1856-2:2009																																													
Freeze-thaw resistance	Pass	EN 1856-1:2009, EN 1856-2:2009																																													

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.

(place and date of issue)

Borgo San Siro 1st of April 2016

(name and function)





DECLARATION OF PERFORMANCE

Cpr: Dopcpr08

1) Unique identification code of the product-type: **Metal Chimney System EN 1856-1, EN 14989-2**

2) Trade name of the product: **Bivent inox/inox, Bivent inox/inox Black, Coax/CLV**

(Designation 1) EN 1856-1 - EN 14989-2 T200 P1 W V2 L50040 O50

(Designation 2) EN 1856-1 - EN 14989-2 T600 N1 W V2 L50040 G80

(Designation 3) EN 1856-1 - EN 14989-2 T600 N1 W V2 L50040 G100

3) Intended use or uses of the construction product, in accordance with the applicable harmonised technical specification, as foreseen by the manufacturer: Chimney System for convey the products of combustion from heating appliances to the outside atmosphere

4) Name and contact address of the manufacturer: **Expo Inox S.p.a**, Viale Artigianato 6, Borgo San Siro (PV) - Italy

5) Name and contact address of the authorised representative: Not applicable

6) System or systems of assessment and verification of constancy of performance of the construction product: System 2+

7) The notified body KIWA CERMET ITALIA S.p.a, with identification number 0476, performed in accordance of System 2+ 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:

ESSENTIAL CHARACTERISTICS	PERFORMANCE	HARMONISED TECHNICAL SPECIFICATION
Compressive strength	Pass	EN 1856-1:2009, EN 14989-2
Resistance to fire	O50 (designation 1) G80 (designation 2) G100 (designation 3)	EN 1856-1:2009, EN 14989-2
Gas tightness / leakage	Designation 1 : P1 Designation 2 : N1	EN 1856-1:2009, EN 14989-2
Value of roughness	1 mm (according to EN 13384-1)	EN 1856-1:2009, EN 14989-2
Flow resistance of the elements	According to EN 13384-1	EN 1856-1:2009, EN 14989-2
Thermal resistance	0,59 m ² k/W	EN 1856-1:2009, EN 14989-2
Thermal shock resistance	Designation 2, G	EN 1856-1:2009, EN 14989-2
Non vertical installation	Yes, maximum angle: 90°	EN 1856-1:2009, EN 14989-2
Components subject to wind load	Pass	EN 1856-1:2009, EN 14989-2
Water and vapour diffusion resistance	W	EN 1856-1:2009, EN 14989-2
Durability against corrosion	Class V2	EN 1856-1:2009, EN 14989-2
Freeze-thaw resistance	Pass	EN 1856-1:2009, EN 14989-2

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.

(place and date of issue)

Borgo San Siro 1st of April 2016

(name and function)