

# DECLARATION OF PERFORMANCE

N° 051 DOP 2013-07-01 SPG

1. Unique identification code of the product-type:	<b>Single Wall Metal System Chimney</b> <b>EN 1856-1:2009</b>		
2. Type, batch or serial number or any other element allowing identification of the construction product as required under Article 11(4) of Regulation (EU) N° 305/2011:	<b>"SPG" Single Wall Series</b> (wall 1.4404)		
	Designation 1	<b>T250 N1 W V2 L50040 O60</b>	for diameters DN 80 ÷ 200 mm
	Designation 1	<b>T250 N1 W V2 L50050 O60</b>	for diameters DN 80 ÷ 300 mm
	Designation 1	<b>T250 N1 W V2 L50060 O60</b>	for diameters DN 80 ÷ 300 mm
	Designation 1	<b>T250 N1 W V2 L50050 O90</b>	for diameters DN 350 - 400 mm
	Designation 1	<b>T250 N1 W V2 L50060 O90</b>	for diameters DN 350 - 400 - 450 mm
	Designation 1	<b>T250 N1 W V2 L50060 O120</b>	for diameters DN 500 - 550 - 600 mm
	Designation 1	<b>T250 N1 W V2 L50060 O240</b>	for diameters above DN 601 mm
	Designation 2	<b>T200 P1 W V2 L50040 O60</b>	for diameters DN 80 ÷ 200 mm
	Designation 2	<b>T200 P1 W V2 L50050 O60</b>	for diameters DN 80 ÷ 300 mm
	Designation 2	<b>T200 P1 W V2 L50060 O60</b>	for diameters DN 80 ÷ 300 mm
	Designation 2	<b>T200 P1 W V2 L50050 O90</b>	for diameters DN 350 - 400 mm
	Designation 2	<b>T200 P1 W V2 L50060 O90</b>	for diameters DN 350 - 400 - 450 mm
	Designation 2	<b>T200 P1 W V2 L50060 O120</b>	for diameter DN 500 mm
3. Intended use or uses of the construction product, in accordance with the applicable harmonised technical specification, as foreseen by the manufacturer:	<b>Convey the products of combustion from heating appliances to the outside atmosphere</b>		
4. Name, registered trade name or registered trade mark and contact address of the manufacturer as required under Article 11(5) of Regulation (EU) N° 305/2011:	<b>ROCCEGGIANI Spa</b> Via 1° Maggio, 10 60021 CAMERANO (AN) - Italy Tel: +39 (0)71 7300023 Fax: +39 (0)71 7304005 Email: <a href="mailto:info@roccheggiani.it">info@roccheggiani.it</a>		
5. Where applicable, name and contact address of the authorised representative whose mandate covers the tasks specified in Article 12(2) of Regulation (EU) N° 305/2011:	<b>Not applicable</b>		
6. System or systems of assessment and verification of constancy of performance of the construction product as set out in Annex V of Regulation (EU) N° 305/2011:	<b>System 2+</b> (for metal system chimney products) <b>System 4</b> (for terminals)		
7. In case of the declaration of performance concerning a construction product covered by a harmonised standard:	<b>The notified factory production control certification body TÜV SÜD Industrie Service GmbH (N° 0036) performed the initial inspection of the manufacturing plant and of factory production control and the continuous surveillance, assessment and approval of factory production control and issued the following certificates of conformity of the factory production control:</b> - Certificate <b>0036 CPD 9811 007</b> for Designation 1 and Designation 2		
8. In case of the declaration of performance concerning a construction product for which a European Technical Assessment has been issued:	<b>Not applicable</b>		

9. Declared performance:

Essential characteristics	Performance	Harmonized technical specification
Compressive strength (of chimney section)	<p>Designation 1 and Designation 2:</p> <p>Diameter <b>DN 80</b> mm : up to <b>110</b> m            Diameter <b>DN 100</b> mm : up to <b>100</b> m            Diameter <b>DN 120</b> mm : up to <b>90</b> m            Diameter <b>DN 130</b> mm : up to <b>85</b> m            Diameter <b>DN 140</b> mm : up to <b>80</b> m            Diameter <b>DN 150</b> mm : up to <b>75</b> m            Diameter <b>DN 160</b> mm : up to <b>70</b> m            Diameter <b>DN 180</b> mm : up to <b>62</b> m            Diameter <b>DN 200</b> mm : up to <b>60</b> m            Diameter <b>DN 220</b> mm : up to <b>52</b> m            Diameter <b>DN 230</b> mm : up to <b>49</b> m            Diameter <b>DN 250</b> mm : up to <b>45</b> m            Diameter <b>DN 280</b> mm : up to <b>41</b> m            Diameter <b>DN 300</b> mm : up to <b>38</b> m            Diameter <b>DN 350</b> mm : up to <b>32</b> m            Diameter <b>DN 400</b> mm : up to <b>28</b> m            Diameter <b>DN 450</b> mm : up to <b>21</b> m            Diameter <b>DN 500</b> mm : up to <b>19</b> m            Diameter <b>DN 550</b> mm : up to <b>17</b> m            Diameter <b>DN 600</b> mm : up to <b>16</b> m            Diameter <b>DN 650</b> mm : up to <b>14</b> m            Diameter <b>DN 700</b> mm : up to <b>14</b> m</p> <p>For further information of compressive strength on chimney sections, fittings and supports see the installation instructions</p>	EN 1856-1:2009
Resistance to fire	<p>Designation 1:</p> <p>Diameters <b>DN 80 ÷ 300</b> mm : <b>T250 - O60</b>            Diameters <b>DN 350 ÷ 450</b> mm : <b>T250 - O90</b>            Diameters <b>DN 500 ÷ 600</b> mm : <b>T250 - O120</b>            Diameters <b>DN 650 - 700</b> mm : <b>T250 - O240</b>            - Tested without enclosure and with ventilated floors</p> <p>Designation 2:</p> <p>Diameters <b>DN 80 ÷ 300</b> mm : <b>T200 - O60</b>            Diameters <b>DN 350 ÷ 450</b> mm : <b>T200 - O90</b>            Diameter <b>DN 500</b> mm : <b>T200 - O120</b>            - Tested without enclosure and with ventilated floors</p>	
Gas tightness/leakage	<p>Designation 1:</p> <p>Diameters <b>DN 80 ÷ 700</b> mm : <b>N1</b></p> <p>Designation 2:</p> <p>Diameters <b>DN 80 ÷ 500</b> mm : <b>P1</b></p>	
Flow resistance of chimney sections, fittings and terminals	According to <b>EN 13384-1</b>	
Thermal resistance	<p>Designation 1 and Designation 2:</p> <p>Diameters <b>DN 80 ÷ 700</b> mm : <b>0</b> m<sup>2</sup>K/W</p>	
Thermal shock resistance:		
- sootfire resistance	Designation 1 and Designation 2: <b>No</b> (because designated O)	
- thermal performance under normal operating conditions	<p>Designation 1:</p> <p>Diameters <b>DN 80 ÷ 700</b> mm : <b>T250</b></p> <p>Designation 2:</p> <p>Diameters <b>DN 80 ÷ 500</b> mm : <b>T200</b></p>	
Flexural tensile strength:		
- tensile strength (only for means of connection for chimney sections)	<p>Designation 1 and Designation 2:</p> <p>Diameter <b>DN 80</b> mm : up to <b>145</b> m            Diameter <b>DN 100</b> mm : up to <b>135</b> m            Diameter <b>DN 120</b> mm : up to <b>125</b> m            Diameter <b>DN 130</b> mm : up to <b>118</b> m            Diameter <b>DN 140</b> mm : up to <b>110</b> m            Diameter <b>DN 150</b> mm : up to <b>103</b> m            Diameter <b>DN 160</b> mm : up to <b>96</b> m            Diameter <b>DN 180</b> mm : up to <b>85</b> m            Diameter <b>DN 200</b> mm : up to <b>80</b> m            Diameter <b>DN 220</b> mm : up to <b>63</b> m            Diameter <b>DN 230</b> mm : up to <b>60</b> m            Diameter <b>DN 250</b> mm : up to <b>55</b> m            Diameter <b>DN 280</b> mm : up to <b>51</b> m            Diameter <b>DN 300</b> mm : up to <b>47</b> m            Diameter <b>DN 350</b> mm : up to <b>47</b> m            Diameter <b>DN 400</b> mm : up to <b>39</b> m</p>	

Essential characteristics	Performance	Harmonized technical specification
	Diameter <b>DN 450</b> mm : up to <b>29</b> m Diameter <b>DN 500</b> mm : up to <b>18</b> m Diameter <b>DN 550</b> mm : up to <b>13</b> m Diameter <b>DN 600</b> mm : up to <b>10</b> m Diameter <b>DN 650</b> mm : up to <b>8</b> m Diameter <b>DN 700</b> mm : up to <b>8</b> m	EN 1856-1:2009
- non vertical installation	<b>NPD</b> (No Performance Determined)	
- components subject to wind load	Designation 1 and Designation 2: Diameters <b>DN 80 ÷ 350</b> mm : - free standing height <b>1,5</b> m above last support - maximum spacing between lateral supports <b>2,5</b> m Diameters <b>DN 400 ÷ 700</b> mm : - <b>NPD</b> (No Performance Determined)	
Durability:		
- water vapour diffusion resistance	Designation 1 (Diameters DN 80 ÷ 700 mm): <b>Yes</b> Designation 2 (Diameters DN 80 ÷ 500 mm): <b>Yes</b>	
- condensate penetration resistance	Designation 1 (Diameters DN 80 ÷ 700 mm): <b>Yes</b> Designation 2 (Diameters DN 80 ÷ 500 mm): <b>Yes</b>	
- against corrosion	Designation 1 (Diameters DN 80 ÷ 700 mm): <b>V2</b> Designation 2 (Diameters DN 80 ÷ 500 mm): <b>V2</b>	
- freeze thaw resistance	Designation 1 and Designation 2: <b>Yes</b>	

**10.** The performance of the product identified in points 1 and 2 is in conformity with the declared performance in point 9.  
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:

Roccheggiani Marco, CEO

Camerano, 01-07-2013

