

Rxx: thermal resistance, where xx is the general value;





-if liners and connecting flue pipes are insulated (ref. EN 1856-2, par. 6.4.3.), the correct values of thermal resistance change in connection with the single diameters, and they are shown in Annex A; xx is the value in m^2K / W multiplied to 100 and rounded off to the nearest integer;

-if liners and connecting flue pipes are not insulated, the value of thermal resistance is zero (R00).

C600: the installation distance of connecting flue pipe from combustible materials, with negative pressure N1, shall be 600 mm

C60: the installation distance of connecting flue pipe from combustible materials, with positive pressure P1, shall be 60 mm

Hereunder we show an example of the identification metal plate

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	<p>“SP” Series – Single Wall</p>
<p>METAL LINERS AND CONNECTING FLUE PIPES-EN 1856-2  0036</p>	
LINERS	T600-N1-W-V2-L50050-G
LINERS	T200-P1-W-V2-L50050-O
CONNECTING FLUE PIPES	T600-N1-W-V2-L50050-G600
CONNECTING FLUE PIPES	T200-P1-W-V2-L50050-O60
<p>Certificate N° 0036 CPD 9811 008 - N° 0036 CPD 9811 009</p>	
<p>Space for the installer</p>	
<p>Designation according to EN 1443: _____</p>	
<p>Nominal diameter : _____ mm</p>	
<p>Distance to combustible material: _____ mm  </p>	
<p>Installer (name, address): _____</p>	
<p>Installation date: _____</p>	
<p>ATTENTION: The metal plate shall not be removed or changed !</p>	

5) MAINTENANCE

Maintenance of fume duct consists of regular checks of liner and connecting flue pipe conditions, and visual checks. Controls are carried out also for: the right connection of modular elements, the integrity of single wall, the cleaning and removal of internal sediments (wall cleaning had to be carried out with materials that do not change the features of stainless steel, for example nylon brushes), the disposal of acid condensations or rain through the discharge, and through the inspection opening for solid materials which may obstruct the right outflow of rain condensates.

6) STORAGE

The elements, during the storing, should be kept in a non-corrosive environment and should not be placed outside the building exposed to state of the atmosphere.

To avoid the crushing they shall not be stored one over the other in vertical position; as a matter a fact the crushing could compromise their performance features.

Note: further information and translations are available on our Internet web site www.roccheggiani.it

ANNEX A
THERMAL RESISTANCE

When rigid liners and connecting flue pipes are insulated, the thermal resistance value declared are listed below:

Insulation	Value / Level	Type test
<i>Quality</i>	<i>Incombustible high-density mineral wool shell</i>	
<i>Diameter - Thickness (mm)</i>	Diameter 80÷300 mm ; thickness 22.5 mm	<i>Manufacturer declaration</i>
	diametro/diameter 130÷700 mm: spessore/thickness 47 mm	
<i>Density</i>	108 Kg/mc (+22%)	<i>Test report:</i> DIBT - Z-7.4-1729
<i>Conducibility</i>	0,061 W/mK (200°C)	

Φ_i	80	100	120	130	140	150	180	200	220	230	250
S	22.5	22.5	22.5	22.5	22.5	22.5	22.5	22.5	22.5	22.5	22.5
R	0.318	0.332	0.340	0.347	0.348	0.354	0.362	0.366	0.368	0.369	0.372
<i>Level (UNI 9731)</i>	B	B	B	B	B	B	B	B	B	B	B
CALCULATION VALUES											

Φ_i	280	300	130	140	150	180	200	220	230	250	280
S	22.5	22.5	47	47	47	47	47	47	47	47	47
R	0.376	0.378	0.604	0.615	0.624	0.649	0.662	0.673	0.678	0.686	0.699
<i>Level (UNI 9731)</i>	B	B	B	B	B	B	A	A	A	A	A
CALCULATION VALUES											

Φ_i	300	350	400	450	500	550	600	650	700		
S	47	47	47	47	47	47	47	47	47		
R	0.705	0.718	0.730	0.739	0.746	0.752	0.757	0.761	0.765		
<i>Level (UNI 9731)</i>	A	A	A	A	A	A	A	A	A		
CALCULATION VALUES											

Φ_i : *insulation internal diameter (mm)*

S: *insulation thickness (mm)*

R : *thermal resistance (m²K / W)*