

**Translation of original document**

**Bureau Veritas – Rouen, France**

**Improvement of absorption in the general purpose hall in Les Pieux,  
France**

**Nr. REN9B 940033A, Rouen, July 19, 1994**

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**Characteristics**

Floor surface: 700 m<sup>2</sup>  
Volume: 5800 m<sup>3</sup>  
Roof: PANOLIN panes  
Gables: PANOLIN panes  
Facade: Painted hollow concrete blocks  
Floor: parquet

**Steps taken to achieve acoustical improvement**

Projection of SONASPRAY fibres (25 mm) on the underside of the roof and gables

**Results of the measurements**

<b>Octave band (Hz)</b>	<b>Reverberation time (in seconds)</b>					
	<b>125</b>	<b>250</b>	<b>500</b>	<b>1000</b>	<b>2000</b>	<b>4000</b>
<b>Before</b>	4.00	3.21	4.45	4.12	4.09	2.99
<b>After</b>	3.17	1.755	1.47	1.23	0.98	1.01