



# Technical Report



INVESTOR IN PEOPLE

**Report Number**      **C/08/5L/20399/R01**

**Date**                      **3 October 2008**

## **Project**

**The Laboratory Determination of  
Airborne Sound Transmission of  
Some Door Sets**

## **Prepared for**

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## **By**

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## 1.0 Summary

Tests have been done in SRL's Laboratory at Holbrook House, Sudbury, Suffolk, to determine the sound reduction index of some doorsets in accordance with BS EN ISO 140-3:1995.

From these measurements the required results have been derived and are presented in both tabular and graphic form in Data Sheets 1 to 10.

The results are given in 1/3rd octave bands over the frequency range 50Hz to 10k Hz, which is beyond that required by the test standard. Measurements outside the standard frequency range are not UKAS accredited.



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**George Thomson**  
Project Engineer

For and on behalf of  
Sound Research Laboratories Ltd



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**Trevor Hickman**  
Executive Consultant  
Deputy Technical Manager

## 4.0 Results

The results of the measurements and subsequent analysis are given in Data Sheets 1 to 10 and summarised below. "Firtree" refers to Lorient IS1511 seals, 6mm unless otherwise stated.

Results relate only to the items tested.

| SRL Test No. | Description in Brief  | R <sub>w</sub> (C;Ctr) |
|--------------|---|------------------------|
| 2            | Door A - Fully Caulked  | 33 (-1;-2)             |
| 3            | Door B - Fully Caulked  | 34 (-1;-3)             |
| 4            | Door B - ThermaBlade seal at perimeter and threshold caulked                                    | 33 (-1;-3)             |
| 5            | Door B - ThermaBlade seal at perimeter and double Firtree Seal at threshold                     | 32 (-1;-2)             |
| 6            | Door B - ThermaBlade seal at perimeter and single Firtree at threshold (stop side)              | 31 ( 0;-2)             |
| 7            | Door B - ThermaBlade seal at perimeter and Lorient 8090si seal at threshold                     | 32 (-1;-2)             |
| 8            | Door B - ThermaBlade seal at perimeter and NOR 855 seal at threshold                            | 31 ( 0;-2)             |
| 9            | Door B - Firtree (4mm) seal at perimeter including down hang stop and NOR 855 seal at threshold | 29 (-1;-1)             |
| 10           | Door B - NOR 710, ThermaBlade hang edge seal at perimeter and double Firtree seal at threshold  | 32 (-1;-2)             |
| 11           | Door C - ThermaBlade seal at perimeter and NOR 855 seal at threshold                            | 31 (-1;-2)             |

————— *End of Text* —————