



# Technical Report



INVESTOR IN PEOPLE

**Report Number** C/09/5L/20662/R01a  
(supersedes Report Number C/09/5L/20662/R01)

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## *Project*

**The Laboratory Determination of  
Airborne Sound Transmission of  
Various 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 various door sets 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 10KHz, which is beyond that required by the test standard. Measurements outside the standard frequency range are not UKAS accredited.



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Project Engineer



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**Trevor Hickman**  
Executive Consultant  
Deputy Technical Manager

For and on behalf of  
Sound Research Laboratories Ltd

## 4.0 Results

The results of the measurements and subsequent analysis are given in Data Sheets 1 to 10 and summarised below.

Results relate only to the items tested.

SRL Test No.	Description in Brief	Rw (C;C <sub>tr</sub> )
2	54mm Blankfort 60 door with glazing (1500x350mm) Seals: Threshold - double Lorient IS 1511 fir tree. Head & Closing Jambs - Thermablade & NOR 710. Hanging Jambs - Thermablade & single Lorient IS 1511 fir tree.	38 (-1;-4)
3	54mm Blankfort 60 door with glazing (1500x350mm) - fully caulked.	38 (0;-3)
4	54mm Blankfort 60 door with glazing (1500x350mm) Seals - Threshold Lorient 8091 SI with threshold plate. Head & Closing Jambs - Thermablade & NOR 710. Hanging Jambs - Thermablade & single Lorient IS 1511 fir tree.	37 (-1;-3)
5	54mm Halspan door with glazing (1500x350mm) - fully caulked.	38 (-1;-3)
6	54mm Halspan door with glazing (1500x350mm) Seals: Threshold - double Lorient IS 1511 fir tree. Head & Closing Jambs - Thermablade & NOR 710. Hanging Jambs - Thermablade & single Lorient IS 1511 fir tree.	36 (-1;-2)
7	54mm Blankfort door with no glazing - fully caulked.	37 (-1;-4)
8	54mm Blankfort door with no glazing. Seals: Threshold - double Lorient IS 1511 fir tree. Head & Closing Jambs - Thermablade & NOR 710. Hanging Jambs - Thermablade & single Lorient IS 1511 fir tree.	36 (-1;-3)
10	54mm Halspan door with no glazing - fully caulked.	36 (-1;-3)
11	54mm Halspan door with no glazing. Seals: Threshold - double Lorient IS 1511 fir tree. Head & Closing Jambs - Thermablade & NOR 710. Hanging Jambs - Thermablade & single Lorient IS 1511 fir tree.	34 (-1;-2)
12	54mm Halspan door with no glazing - as test 11 with seals adjusted. Seals: Threshold - double Lorient IS 1511 fir tree. Head & Closing Jambs - Thermablade & NOR 710. Hanging Jambs - Thermablade & single Lorient IS 1511 fir tree.	34 (0;-2)

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