

# Acoustic performance of doorsets – tested in accordance with BS EN ISO 10140-2: 2010

44mm Halspan Prima glazed pair of doors in a hardwood frame. 1700mm x 300mm x 15mm Pyrostop glazed with Lorient System-36/15 PLUS fire rated glazing system. LAS1212 to jamb and head stops. LP1504 to jambs and head. 2 No LP1004DS at meeting stile (inner fins on LP1004DS interrupted at latch). LAS8001si drop seal to the bottom of both doors with LAS4014si threshold plate.

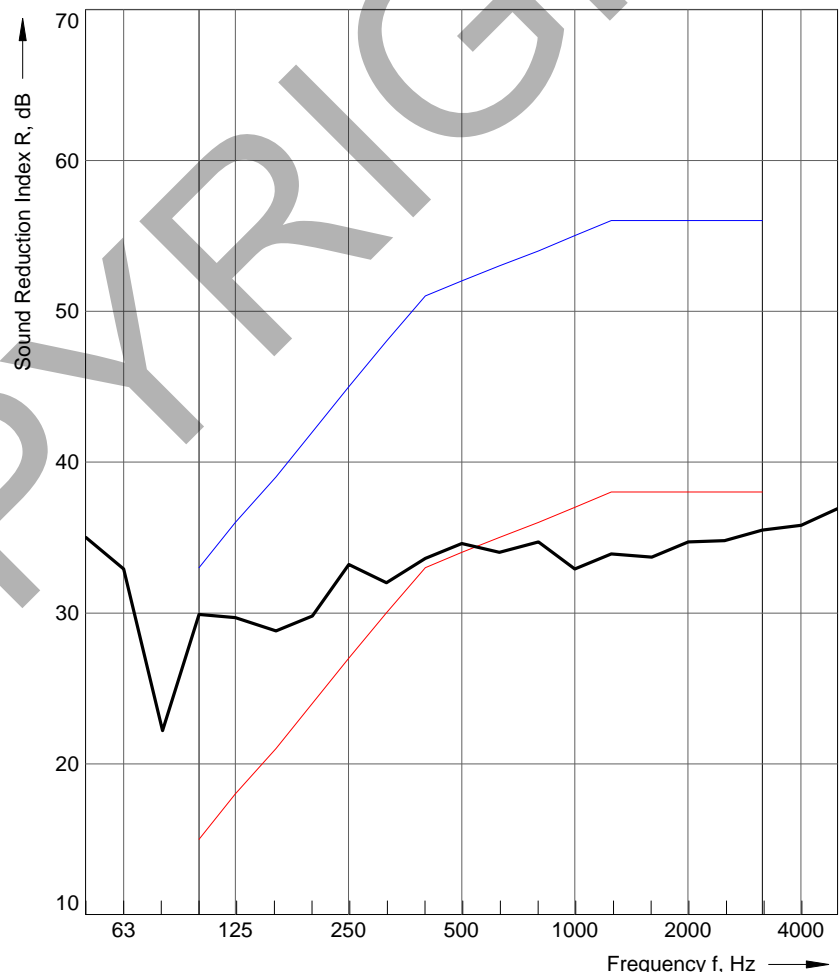
**Test Date:** 26/08/2014  
**Test Number:** 140826 002

**Test specimen installed by:** Lorient Testing & Technical Services  
**Test room temperature:** 20.6°C  
**Test room static pressure:** 1013hpa  
**Test room relative humidity:** 70%

**Area S of test element:** 4.40m<sup>2</sup>  
**Source room volume:** 68.40m<sup>3</sup>  
**Receiving room volume:** 50.00m<sup>3</sup>  
**Sample mass per unit area:** 29.8 kg/m<sup>2</sup>

— Sound reduction index (R) dB  
 — Curve of reference values (EN ISO 717-1:1996)

| Frequency f Hz | R 1/3 Octave dB |
|----------------|-----------------|
| 50             | 35.0 *          |
| 63             | 32.9 *          |
| 80             | 22.2            |
| 100            | 29.9            |
| 125            | 29.7            |
| 160            | 28.8            |
| 200            | 29.8            |
| 250            | 33.2            |
| 315            | 32.0            |
| 400            | 33.6            |
| 500            | 34.6            |
| 630            | 34.0            |
| 800            | 34.7            |
| 1000           | 32.9            |
| 1250           | 33.9            |
| 1600           | 33.7            |
| 2000           | 34.7            |
| 2500           | 34.8            |
| 3150           | 35.5            |
| 4000           | 35.8            |
| 5000           | 36.9            |



\* Correction applied for flanking

Rating according to ISO 717-1

$$R_w (C; C_{tr}) = 34 ( 0; -1) \text{ dB}$$

Evaluation based on laboratory measurement results obtained in one-third-octave bands by an engineering method

$$C_{50-3150} = 0 \text{ dB}; C_{50-5000} = 0 \text{ dB}; C_{100-5000} = 0 \text{ dB};$$

$$C_{tr,50-3150} = -1 \text{ dB}; C_{tr,50-5000} = -1 \text{ dB}; C_{tr,100-5000} = -1 \text{ dB};$$



BS EN ISO 9001:2015  
Certificate No. 03/104



BS EN ISO 14001:2015  
Certificate No. 03/3 241500

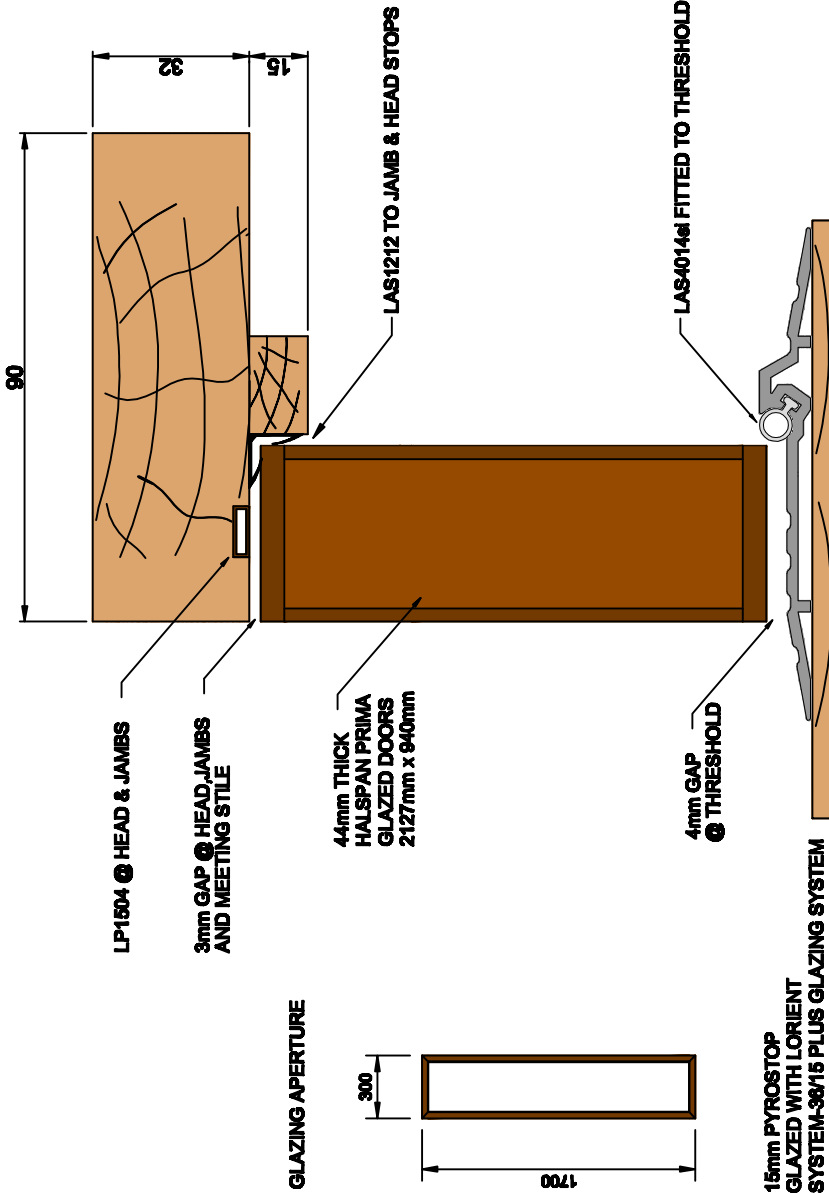


Testing & Technical Services  
 Discovery House  
 Unit 19 Wentworth Road  
 Heathfield Ind Estate  
 Newton Abbot  
 Devon TQ12 6TL  
 United Kingdom

T: +44 (0)1626 834252  
 F: +44 (0)1626 833166  
 E: testing@lorientuk.com  
 www.lorientuk.com

Registered in England No. 1441058  
 Registered Office: Fairfax Road, Heathfield,  
 Newton Abbot, Devon, United Kingdom

Testing &  
 Technical  
 Services



15mm PYROSTOP  
GLAZED WITH LORIENT  
SYSTEM-30/15 PLUS GLAZING SYSTEM

TEST : 140826 002

44mm pair of Halspan Prima flush doors in a hardwood frame  
2127 x 940mm  
1700mm x 300mm x 15mm Pyrostop glazed with Lorient System-30/15 Plus  
fire rated glazing system.  
LAS1212 to jamb & head stops  
1x LP1504 @ Head & Jambs (fully interrupted at hinges)  
2 x LP1004DS @ meeting stile (inner fins on LP1004DS interrupted at latching)  
LAS-4014el threshold plate.

|     |             |   |        |         |     |   |  |
|-----|-------------|---|--------|---------|-----|---|--|
|     |             |  <p><b>LORIENT</b></p> <p>Discovery House<br/>Unit 19 Wentworth Road<br/>Heatfield Industrial Estate<br/>Newton Abbot<br/>Devon TQ12 6TL<br/>Tel: 01626 834252<br/>Fax: 01626 833166<br/>E : <a href="mailto:testing@lorientuk.com">testing@lorientuk.com</a><br/><a href="http://www.lorientuk.com">www.lorientuk.com</a></p> <p>Testing &amp; Technical Services</p> |        | SCALE   | NTS | TITLE:                                  |  |
|     |             |   |        | DRAWN   | MNH | ACOUSTIC TESTING<br>HALSPAN PRIMA PAIRS |  |
|     |             | DATE  | 100714 | CHECKED | DF  | DRAWING NO:                             |  |
|     |             | APPROVED  | DF     |         |     | 140826 002                              |  |
| 01  | FIRST ISSUE | xx/xx/xxxx  |        |         |     |   |  |
| REV | DESCRIPTION | DATE  |        |         |     |   |  |

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