



**APPLICATION TO DISCHARGE PLANNING CONDITION No.9  
FOR PROPOSED BARN CONVERSIONS AT,  
MOOR LANE, BIRDWELL,  
BARNLEY, S70 5TY.**

**SOUND INSULATION REPORT**

**JULY 2020  
REF: 1707SIR**

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**Application to discharge of Planning condition No.9, Proposed Barn Conversions  
(Hangman) Stone Bar Farm, Moor Lane, Birdwell, Barnsley, S70 5TY.**

**JULY 2020  
1707SIR**

**SOUND INSULATION REPORT**

This report has been prepared to support our application to discharge of Planning Condition No.9 in relation to application ref: 2019/0522, that was permitted on 12<sup>th</sup> August 2019.

**1.0 CONTEXT**

SOUND INSULATION WORKS ARE BEING UNDERTAKEN IN ACCORDANCE WITH RECOMMENDATIONS OF NOISE IMPACT REPORT REF: 4042-R2 BY CLOVER ACOUSTICS SUBMITTED WITH SAID PLANNING APPLICATION.

**2.0 NOISE LEVELS**

THE NOISE LEVELS ARE QUOTED IN SAID REPORT AND REITERATED IN SAID CONDITION.

|                              |                           |
|------------------------------|---------------------------|
| BEDROOMS LAeq (08 hours)     | 30dB (2300 to 0700 hours) |
| LIVING & BEDROOMS (16 hours) | 35dB (0700 to 2300 hours) |
| BEDROOMS LAFmax              | 45dB (2300 to 0700 hours) |

**3.0 SOLUTION(S).**

GLAZED UNITS COMPRISE 6.4:12:4 SEE SUPPLIERS DELIVERY NOTE IN APPENDIX A

GLAZED UNITS OF THIS SPECIFICATION GIVE AT LEAST 28dB SOUND REDUCTION SEE MANUFACTURERS DATA IN APPENDIX B

IT IS UNDERSTOOD THAT EVIDENCE SUGGESTS SMALL GLAZED WINDOWS LIKE THOSE INCORPORATED IN THIS SCHEME OFFER PARTIALLY OPEN SOUND REDUCTIONS VALUES OF BETWEEN 17 AND 18dB THUS ENSURING COMPLIANCE WITH L<sub>Amax</sub> LEVEL OF ABOVEMENTIONED NOISE REPORT IN MONITORING POSITION 1.

Signed.

*J E Architectural Ltd.*

For Mr S Woodruff

**APPENDIX A**

**SUPPLIERS DELIVERY INFORMATION**

# ADRIA GLASS LTD

UNIT 5 LOW VALLEY IND EST  
WOMBWELL  
BARNSELY  
SOUTH YORKSHIRE  
S73 8BD

## DELIVERY NOTE

217998

Tel: 01226 751188

Fax: 01226 340383

E-mail: sales@adria-glass.com

KIRK AND CRANSTON LTD  
Unit 15B  
Albion Road  
Carlton Industrial Estate  
Barnsley  
S71 3HW

Delivery Address

Order No: 217998

Ordered Date 03/03/2020

Delivery Date 06/03/2020

Order Ref 3492 CROWN HOMES WINDOWS

| Line | Reference | Make-up     | Qty | Width | Height | Description                                                                     |
|------|-----------|-------------|-----|-------|--------|---------------------------------------------------------------------------------|
| 1    | WIN 1     | 4SC-12-6.4L | 1   | 446   | 243    | 4mm Softcoat , 12mm Black W<br>6.4mm Laminate WARMEDGE, Argon Gas               |
| 2    | WIN 3     | 4SC-12-6.4L | 1   | 650   | 282    | 4mm Softcoat , 12mm Black W<br>6.4mm Laminate WARMEDGE, Argon Gas               |
| 3    | WIN 3     | 4SC-12-6.4L | 1   | 742   | 372    | 4mm Softcoat , 12mm Black W<br>6.4mm Laminate WARMEDGE, Argon Gas               |
| 4    | WIN 4     | 4SC-12-6.4L | 1   | 629   | 281    | 4mm Softcoat , 12mm Black W<br>6.4mm Laminate WARMEDGE, Argon Gas               |
| 5    | WIN 4     | 4SC-12-6.4L | 1   | 720   | 371    | 4mm Softcoat , 12mm Black W<br>6.4mm Laminate WARMEDGE, Argon Gas               |
| 6    | WIN 5     | 4SC-12-6.4L | 1   | 646   | 292    | 4mm Softcoat , 12mm Black W<br>6.4mm Laminate STIPPOLYTE WARMEDGE,<br>Argon Gas |
| 7    | WIN 5     | 4SC-12-6.4L | 1   | 736   | 378    | 4mm Softcoat , 12mm Black W<br>6.4mm Laminate STIPPOLYTE WARMEDGE,<br>Argon Gas |

OTHERS ON: 217997

Number of Items 7

Please acknowledge goods received in good condition

Receipt Date: \_\_\_\_\_

Del instructions

Received by: D. 251

Delivery Route ABC

Print Name: D. 255

Order Weight 38.44kg

PLEASE REPORT ALL DEFECTS WITHIN ONE MONTH



## **APPENDIX B**

### **MANUFACTURERS SOUND INSULATION DATA**

## Sound insulation data for standard products

| Glass                                | Sound reduction index (dB)       |     |     |      |      |      |                                      |                |                    |                                  |
|--------------------------------------|----------------------------------|-----|-----|------|------|------|--------------------------------------|----------------|--------------------|----------------------------------|
|                                      | Octaveband Centre Frequency (Hz) |     |     |      |      |      | R <sub>w</sub> (C; C <sub>tr</sub> ) | R <sub>w</sub> | R <sub>w</sub> + C | R <sub>w</sub> + C <sub>tr</sub> |
|                                      | 125                              | 250 | 500 | 1000 | 2000 | 4000 |                                      |                |                    |                                  |
| Single glazing                       |                                  |     |     |      |      |      |                                      |                |                    |                                  |
| 4 mm Float Glass                     | 17                               | 20  | 26  | 32   | 33   | 26   | 29 (-2; -3)                          | 29             | 27                 | 26                               |
| 6 mm Float Glass                     | 18                               | 23  | 30  | 35   | 27   | 32   | 31 (-2; -3)                          | 31             | 29                 | 28                               |
| 8 mm Float Glass                     | 20                               | 24  | 29  | 34   | 29   | 37   | 32 (-2; -3)                          | 32             | 30                 | 29                               |
| 10 mm Float Glass                    | 23                               | 26  | 32  | 31   | 32   | 39   | 33 (-2; -3)                          | 33             | 31                 | 30                               |
| 12 mm Float Glass                    | 27                               | 29  | 31  | 32   | 38   | 47   | 34 (0; -2)                           | 34             | 34                 | 32                               |
| 6 mm Laminated Glass                 | 20                               | 23  | 29  | 34   | 32   | 38   | 32 (-1; -3)                          | 32             | 31                 | 29                               |
| 8 mm Laminated Glass                 | 20                               | 25  | 32  | 35   | 34   | 42   | 33 (-1; -3)                          | 33             | 32                 | 30                               |
| 10 mm Laminated Glass                | 24                               | 26  | 33  | 33   | 35   | 44   | 34 (-1; -3)                          | 34             | 33                 | 31                               |
| 12 mm Laminated Glass                | 24                               | 27  | 33  | 32   | 37   | 46   | 35 (-1; -3)                          | 35             | 34                 | 32                               |
| 16 mm Laminated Glass                | 26                               | 31  | 30  | 35   | 43   | 51   | 36 (-1; -3)                          | 36             | 35                 | 33                               |
| Insulating glass units               |                                  |     |     |      |      |      |                                      |                |                    |                                  |
| 4 mm / (6 - 16 mm) / 4 mm            | 21                               | 17  | 25  | 35   | 37   | 31   | 29 (-1; -4)                          | 29             | 28                 | 25                               |
| 6 mm / (6 - 16 mm) / 4 mm            | 21                               | 20  | 26  | 38   | 37   | 39   | 32 (-2; -4)                          | 32             | 30                 | 28                               |
| 6 mm / (6 - 16 mm) / 6 mm            | 20                               | 18  | 28  | 38   | 34   | 38   | 31 (-1; -4)                          | 31             | 30                 | 27                               |
| 8 mm / (6 - 16 mm) / 4 mm            | 22                               | 21  | 28  | 38   | 40   | 47   | 33 (-1; -4)                          | 33             | 32                 | 29                               |
| 8 mm / (6 - 16 mm) / 6 mm            | 20                               | 21  | 33  | 40   | 36   | 48   | 35 (-2; -6)                          | 35             | 33                 | 29                               |
| 10 mm / (6 - 16 mm) / 4 mm           | 24                               | 21  | 32  | 37   | 42   | 43   | 35 (-2; -5)                          | 35             | 33                 | 30                               |
| 10 mm / (6 - 16 mm) / 6 mm           | 24                               | 24  | 32  | 37   | 37   | 44   | 35 (-1; -3)                          | 35             | 34                 | 32                               |
| 6 mm / (6 - 16 mm) / 6 mm Laminated  | 20                               | 19  | 30  | 39   | 37   | 46   | 33 (-2; -5)                          | 33             | 31                 | 38                               |
| 6 mm / (6 - 16 mm) / 10 mm Laminated | 24                               | 25  | 33  | 39   | 40   | 49   | 37 (-1; -5)                          | 37             | 36                 | 32                               |

The above are generally accepted values for generic products taken from EN 12758. They are conservative values that can be used in the absence of measured data.

Data for laminated glass is based on pvb interlayers (excluding acoustic pvb interlayers). Glass thickness for laminated glass excludes interlayer thickness.

Data can be adopted for air or argon gas-filled cavities