

NOISE PROTECTION SCHEME

2023

37 RICHMOUND ROAD

WORTHING

WEST SUSSEX

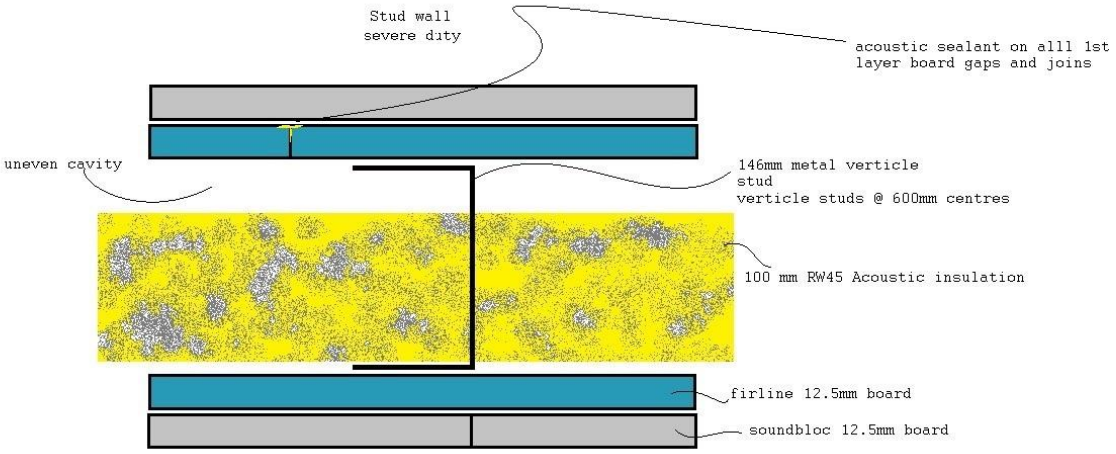
BN11 1 PW

Works to protect the proposed noise sensitive development from external noise, and guest from internal noise sources.

REF AWDM/1473/22

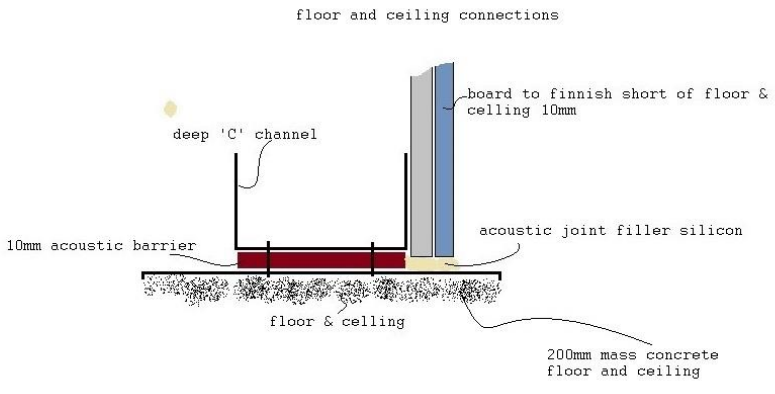
The development at 37 Richmond Road will demonstrate the use of construction innovation, technology and online 24hrs monitoring methods to reduce sound disturbance to guests of the property and residents.

Walls & floors



Rw (C;Ctr) = 57 (-2;-7)dB

notes: test certificate used 50mm insulation, actual construction used 100mm Rw45 sound slab. Untested however we believe our Rw will be greater than predicted.



Windows



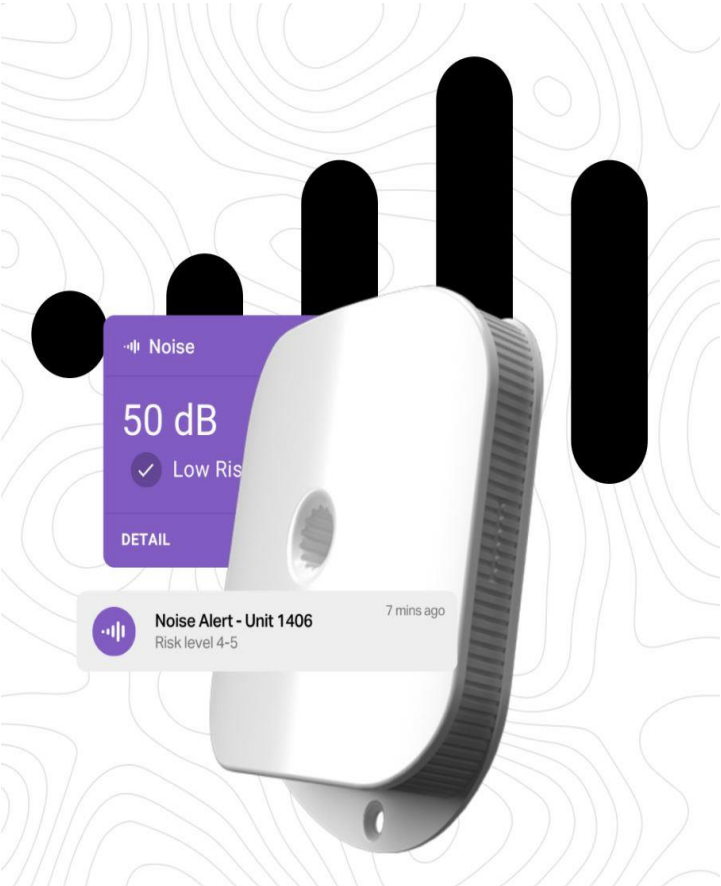
The former civic building sits in a listed area for conservation. The building stands amongst many other civic buildings in the area and contributes to what's known as the civic square. The building design and glass façade has much importance to is stature and the local area. The vast window façade is certainly of architectural importance to the building and the street. Extensive restoration has been made to the windows protecting the heritage for the future. We accept the windows to produce a 18-20 Db Rw. Fortunately, Residential properties are quite some distance away from any windows and we suspect Noise leakage from the windows to be minimal and will not cause any noise pollution once combined with the other extensive noise reduction measures being proposed.

Technology reducing Noise equipment.

monitoring to prevent the unexpected.

Operto's noise monitoring solutions help you understand noise levels – so that you can manage them in the most appropriate way while keeping your property safe.

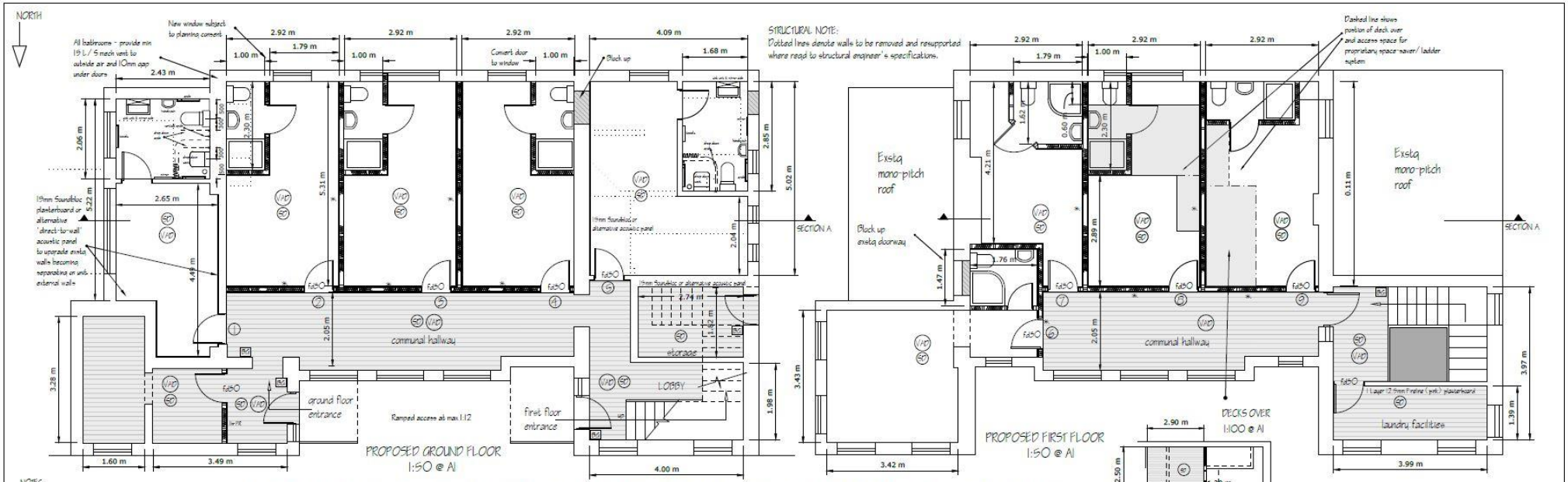
Every room at Sleep is fitted with the leading technology in noise monitoring and alerts systems. Every room will have a bespoke acceptable noise level set according to the room structure and fittings. The management will decide what noise is considered acceptable from other guest rooms and residents outside. The system will alert management immediately when the Db maximum set levels are breached.



Superior door blanks

All door to guest rooms have been constructed and hand made to order. 45mm solid core door with door auto closers with fire and smoke intumescent seals to all sides. Extra deep fire stops door stop has also been fitted ‘ 45 mm x 45mm . The doors will provide a minimum acoustic value of 37Db see fig21 for spec sheet.





NOTES:

ALL OPENING UP AND RE-SUPPORTING WORKS TO ENGINEER'S STRUCTURAL CALCULATIONS AND DETAILS SUPPLIED SEPARATELY.

All insulation works as noted or as agreed with BCO.

Construction of walls all to engineer requirements ie. structural/ supporting/ stud etc
Structural calculations to be consulted and to supersede these drawings where read.
All existing drainage runs/ facilities are to be site inspected and tested for suitability.
New runs and facilities to be agreed between builder and client and approved by BCO

* Separating walls between units and between units/ commonways are to be constructed using a proprietary metal stud system (146mm members set at 600mm centres insulated between with 100mm RWA sound insulation or similar approved)
Partitions to be lined each side using 12.9mm Soundbloc board and 12.5mm Fireline board (see detail)
Bathroom stud partitions to be insulated using with RWA45 sound insulation or similar approved and lined each side with standard 12.5mm plasterboard.
Smoke detection, sounders and break-glass points as marked or to Building Control/ fire officer approval. Emergency lighting and exit signage etc to Building Control/ fire officer approval.

ADDITIONAL NOTES/ CLARIFICATIONS:
Structural calcs package supplied separately by client.

Emergency lighting installation details in accordance with BS9266: Part 1:2011.
Design details for fire safety and exit signage in accordance with BS5499: Part 1:1990 and the Health and Safety (Safety Signs and Signals) Regulations 1996.
Design details for the fire alarm installation in accordance with BS5839.
Alarm proposals as shown on plans and as agreed between Fire officer/ BCO/ client on site
Emergency lighting and exit signage etc to be confirmed and details provided to BCO with commissioning certificate provided on completion.

Any electric heaters within protected staircases and corridors forming common escape routes are only to be installed subject to the following conditions:-
a. The heating unit is of the storage type and does not have heating elements, is to be provided with a fixed-spur electrical connection. Plug in heaters are not acceptable.
Any such heating appliances are to be positioned so that combustible material cannot be placed on or adjacent to the unit. BS5839 alarm system req'd.
CLIENT TO ENSURE COMPLIANCE WHERE APPLICABLE.

All FD30 Fire doors to have three hinges, cold smoke seal and self closing device - door closers and accessories should comply fully with BS EN 1154

Revised scheme shown with 'sleep decks' (mer rooms) removed in favour of revised decks and laddered access as agreed on site with BCO

No furniture, vending machines, objects etc will be present within communal protected corridors.

Common stair to first floor - laundry/ storage room wall is to achieve 60mins FR via wall upgrade and fire door.

Doors on escape routes are not to be fitted with any lock, latch or bolt fastenings. Any fastenings installed to be of a simple design that can be readily operated from the side approached by people making an escape without the use of a key and without having to manipulate more than one mechanism.

The 'Responsible Person' for the maintenance and upkeep of the building has a responsibility under the Regulation Reform (Fire Safety) Order 2005 and client is advised that all relevant fire safety information, including 'as built' plans to operate and maintain the building with reasonable safety are provided to the person on completion.

Pre completion sound tests to be completed by a UKAS accredited company showing compliance with the current standards of the Building Regulations.

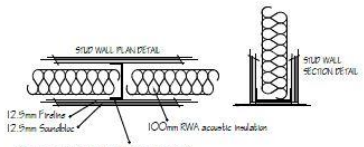
Design details and layouts for the ventilation system in accordance with CIBSE Guide B2 (ventilation and Ductwork 2016) to be provided by client.
Design details and layouts for the proposed heating system to be provided by client.

A supply of wholesome water (mains supply or equivalent complying with Section 67 of the Water Industry Act 1991) will be provided to the following locations:
Any place where drinking water is drawn off - wash hand basins, bidets, baths, showers and sinks, sanitary conveniences
Heated (includes softened) wholesome water to be supplied to the following locations: wash hand basins, bidets, baths, showers and sinks (in areas where food is prepared).
Any hot water storage systems is to be designed and installed in accordance with BS 6700:2006 + A1 2008.
Any non-vented, heated unvented (closed) storage water heater is to comply with BS EN 12897:2006.

Any retained thermal element that does not achieve the threshold values shown in Table 4.2 of Approved Document L Vol 2 may need to be upgraded. Client is consulting with thermal consultant/ BCO to confirm and agree any upgrades required based on site investigation/ calculations etc. Details to be agreed and confirmed with BCO as reqd.

Client to provide notice confirming that all Fixed building services have been commissioned as approved by the Secretary of State inaccordance with Reg 20.
An energy rating, in accordance with SAP 2012 (Standard Assessment Procedure to be prepared and fixed in a conspicuous place within the building.

AD M Vol 2 compliance to be ensured and all requirement proposals agreed with BCO
Bathroom details shown on plans above for 2x accessible units (1 and 9) Ramped external access at max 1:12 proposed (details/ positioning TBA)
All relevant access doors are to be min 775mm clear opening width or as agreed with BCO.
Building work is to be carried out so as to ensure that the building is equipped with a high-speed ready in building physical infrastructure, up to a network termination point for high-speed electronic communications networks. Client advised and to provide details/ specification to BCO.



ALL DETAILS ON THIS SHEET HAVE BEEN PRODUCED BASED ON INFORMATION AVAILABLE FROM BASIC SITE SURVEY. ALL DIMENSIONS ARE APPROXIMATE AND TO BE CONFIRMED AND AGREED ON SITE BETWEEN BUILDER AND CLIENT.

ALL EXISTING DIMENSIONS, INSULATION, STRUCTURE ETC TO BE CHECKED ON SITE AT COMMENCEMENT OF AND DURING WORKS WITH ADAPTIVE MEASURES TAKEN WHERE NEEDED.

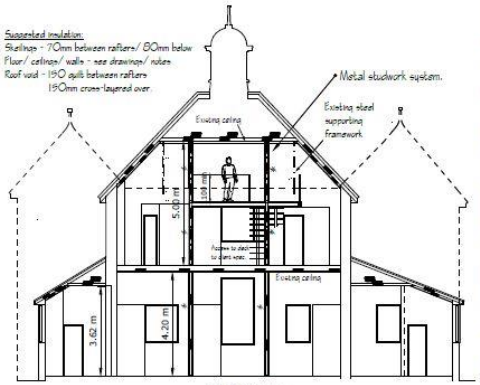
ALL SPECIFICATIONS SHOWN ARE FOR THE PURPOSES OF THE INITIAL APPLICATION UNDER THE BUILDING REGULATIONS AND ARE SUBJECT TO ASSESSMENT, AGREEMENT AND CONFIRMATION PRIOR TO IMPLEMENTATION.

ALL DETAILS ARE TO BE USED, ADAPTED AND/OR CHANGED ONLY WITH BUILDING CONTROL AGREEMENT AND IN CONSULTATION WITH STRUCTURAL ENGINEER WHERE APPROPRIATE.

TO BE READ IN CONJUNCTION WITH ENGINEER'S SPECIFICATIONS SUPPLIED SEPARATELY.

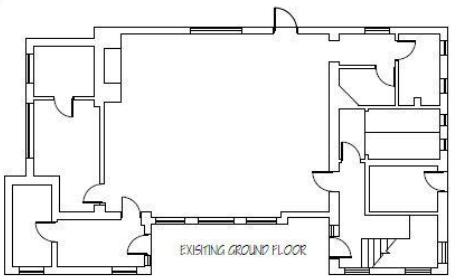
Any party wall act requirements are the responsibility of the client and to be addressed separately.

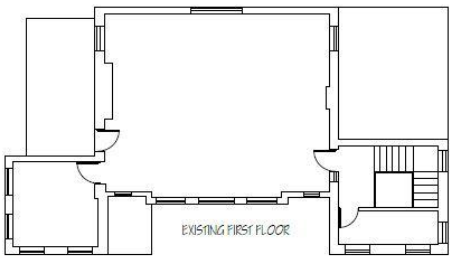
Suggested insulation:
Skellings - 70mm between rafters/ 80mm below
Floor/ ceilings/ walls - see drawings/ notes
Roof void - 150 quilt between rafters
150mm cross-layered over.



SECTION A
1:100 @ A1

VAP VISUAL AUDIBLE DEVICE
FD30 FIRE DOOR
BG BREAK-GLASS
SD SMOKE DETECTOR (mains with battery back-up)





1:100 @ A1

deadspace DESIGNS

PROPOSED PLANS for BUILDING REGULATIONS (REVISED) - 37 Richmond Road, Worthing, West Sussex, BN11 1PW

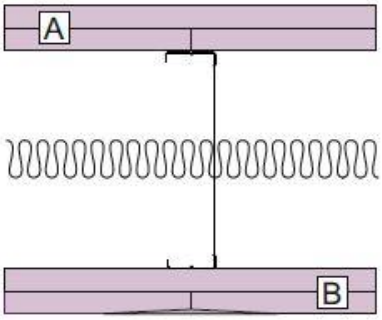
'SLEEP' - 9x ACCOMMODATION UNITS DRAWING SHEET - BUILDING REGS DATE: 10/ 03/ 2023

SCALE BAR 1:50 @ A1 0 1 2 3 4 5m

superior sections
roll forming innovation

Performance Datasheet 146/12A/2/50

System Performance 60/60 - 57dB - SD



Partition Type:	Standard Internal Partition
Stud Type:	146mm 'C' stud
Stud Reference:	SU146S05 - 1636
Stud Centres:	600mm
Maximum Height:	7600mm (L/240 @ 200 Pa)
Nominal Thickness:	196mm (excluding finishes)
Board Type 1:	12.5mm acoustic plasterboard - Type D
Board Type 2:	N/A
Insulation Type:	50mm APR 1200
Fire Resistance:	60 / 60 (Insulation / Integrity)
Sound Insulation:	Rw (C;Ctr) = 57 (-2;-7) dB
Structural Rating:	Severe Duty

Metal Framing:

Head Track:	Superior 148mm standard track ref: SU148T05 - 1645 secured to head at 600mm centres. For heights above 4200mm use deep track SU148DT05 - 1653 (see note).
Base Track:	Superior 148mm standard track ref: SU146T05 - 1645 secured to base at 600mm centres.
Studs:	Superior 146mm 'C' stud ref SU146S05 - 1636 at 600mm centres, openings and abutments.
Stud Bracing:	N/A.
Resilient Layer:	N/A.

Board Lining & Cavity:

Boarding Side A:	To be faced with a double layer of 12.5mm acoustic plasterboard - Type D.
Boarding Side B:	To be faced with a double layer of 12.5mm acoustic plasterboard - Type D.
Drywall screws:	Installed to all framing members and entire board perimeter at maximum 300mm centres. Screws to be sized for board depth plus a minimum 10mm penetration to metal framing members.
Staggered Joints:	Stagger vertical board joints between opposing faces. Stagger all horizontal joints by a minimum 300mm.
Fixing Strap:	All outer layers horizontal board joints and deflection heads to be supported with Superior flat strap or framing members to provide intermediate fixing points.
Cavity Insulation:	To be fitted within the cavity as per manufacturers recommendations.

Finishing:

Type of Finishes:	Taped seamless finish using suitable jointing materials.
Primer/Sealer:	As per manufacturers recommendations.
Accessories:	Beads, tapes and trims as per manufacturers recommendations.

Notes:

In order to achieve the required performances, all partitions and lining systems should be constructed to BS 8212: 1995 Code of Practice for Drylining and Partitioning using Gypsum Plasterboard, as well as BS 8000 Workmanship on Building Sites Part 8: 1989 Code of Practice for Plasterboard Partitions and Dry Linings. Board types as defined in BS EN 520:2004, A1:2009.

Install standard track at head for partitions up to 4200mm, deep track for partitions exceeding 4200mm, and extra deep track for partitions heights exceeding 8000mm. Ensure minimum 20mm stud engagement into the head track. Channels up to 70mm wide are secured with one row of fixings at 600mm centres, channels exceeding 70mm are secured with two rows of fixings at 600mm centres, staggered by 300mm.

Fire performance to BS476: part 22: 1987 Clause 5 - Ref: BTC20938F - Date:02/05/19
Acoustic performance to BS EN ISO 10140-2: 2010 - Ref: BTC20675GA - Date: 13/03/19
Structural performance to BS5234 Part 2: 1992 Annexes A, B, C, D, E, F. - BTC20674S Date: 10/05/18

Sleep Room

Superior Sections Ltd, 32 Regal Drive, Walsall Enterprise Park, Walsall, West Midlands WS2 9HQ
01922 620333 01922 610555 sales@superiorsections.com www.superiorsections.com

superior sections
roll forming innovation

DECLARATION OF PERFORMANCE

1. Unique identification code of the product:

Metal Framing Components – U channels

2. Type, batch or serial number or any other element allowing identification of the construction product as required under article 11(4):

46mm standard track	**50mm deep track**	**50mm extra deep track**
50mm standard track	**52mm deep track**	**52mm extra deep track**
52mm standard track	**62mm deep track**	**62mm extra deep track**
62mm standard track	**72mm deep track**	**72mm extra deep track**
72mm standard track	**92mm deep track**	**92mm extra deep track**
75mm standard track	**148mm deep track**	**148mm extra deep track**
92mm standard track	**Wall liner track**	**76mm x 38mm channel**
94mm standard track	**38mm x 19mm Channel**	**100mm x 50mm channel**
148mm standard track	**63mm x 25mm channel**	

3. Intended use or uses of the construction product, in accordance with the applicable designated technical specification, as foreseen by the manufacturer:

Metal framing components for gypsum plasterboard systems

4. Name, registered trade name or registered trade mark and contact address of the manufacturer as required under article 11(5):

Superior Sections Ltd, 32 Regal Drive, Walsall Enterprise Park, Walsall WS2 9HQ, UK

5. Where applicable, name and contact address of the authorised representative whose mandate covers the tasks specified in article 12(2):

Not applicable

6. System or systems of assessment and verification of constancy of performance of the construction product as set out in CPR, Annex V:

System 4

7. In case of the declaration of performance concerning a construction product covered by a designated standard:

BS EN14195: 2014

8. In case of the declaration of performance concerning a construction product for which a European technical assessment has been issued:

Not applicable

9. Declared performance:

Essential Characteristics	Performance	Designated Technical Specification
Reaction to fire	A1	BS EN 14195: 2014
Flexural strength	NPD	

10. This performance of the product identified in points 1 and 2 is in conformity with the declared performance in point 9. This declaration of performance is issued under the sole responsibility of the manufacturer identified in point 4:

Signed for on behalf of the manufacturer by:
Stuart Mason, Managing Director Superior Sections Ltd

..... Walsall 09.12.2022

Signature Place and date

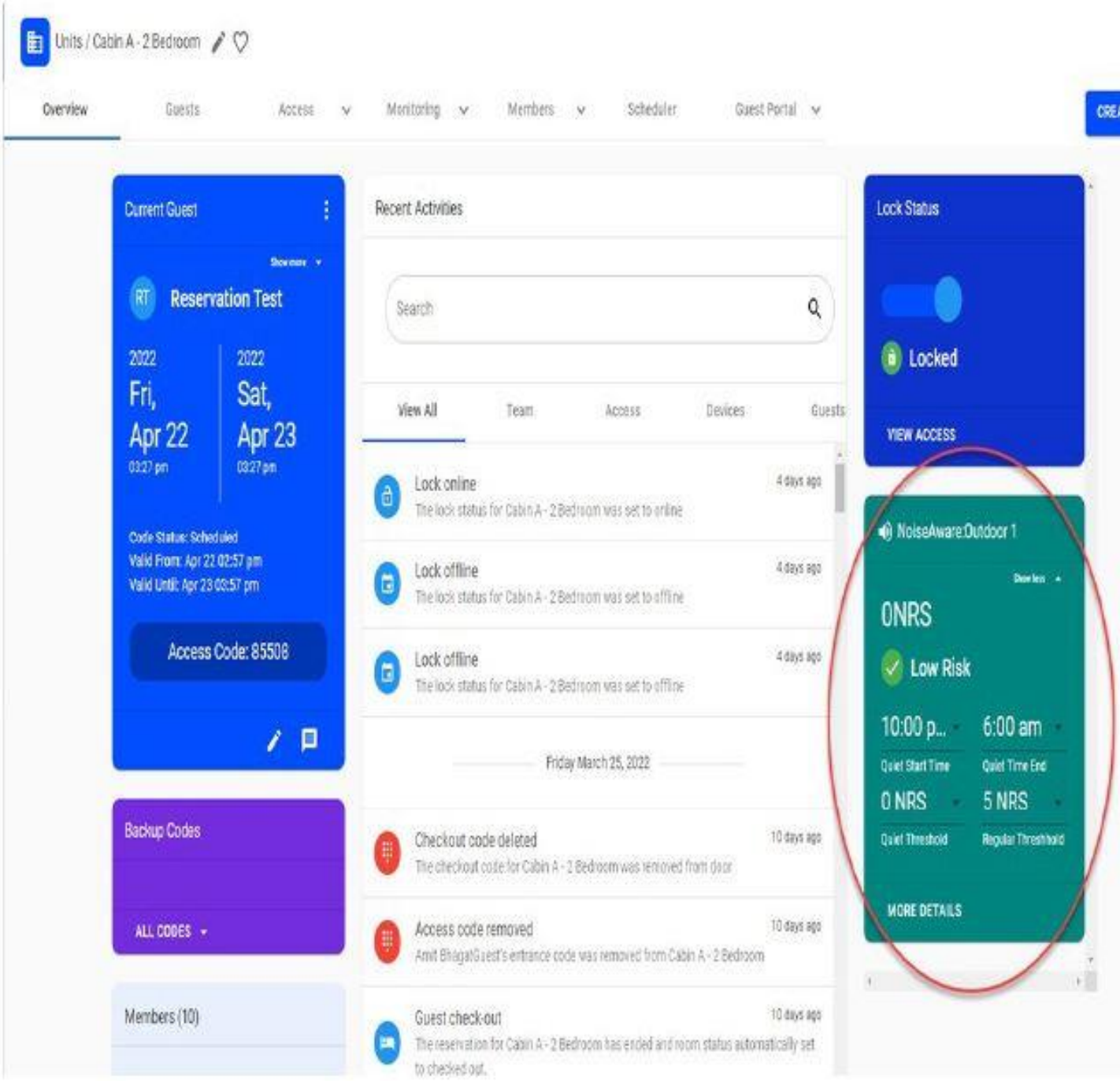


Figure 1 Dashboard demonstration for noise management software.

fig 2 1

ESSGEE BLANK
International Timber



Technical Data

SAINTFIRE PROTECH DOORBLANK FD30 is tested in accordance with BS EN 1634-1 2014 at Exova Warringtonfire with the WF test report: BMT/FEP/F15260 Revision A provide the basis for Global Assessment BMT/CAN/F16018.

	Configuration		Height (mm)		width (mm)
Leaf Sizes	LSASD	From: To:	2480 2703	x x	997 915
	LSADD	From: To:	2135 2220	x x	951 915
Maximum Overpanel Height (mm)		Transomed	2000 (LSASD) & 1500 (LSADD)		
Glazing		Max. Glazed Area	1.0m2 (see section 7 for details)		
		Approved Systems	See Section 7& Appendix B		
Frame Specification (See section 10)		Material	Softwood or Hardwood		
		Min Section(mm)	70x32		
		Min. Density (kg/m3)	510		

INTUMESCENT MATERIALS: Pyroplex Rigid Box Seal-Pyroplex Ltd.
HEAD : 1 No. 15x4mm strip exposed and fitted 14mm from the frame edge in the frame reveal.
JAMBS: 1 No. 15x4mm strip exposed and fitted 14mm from the frame edge in the frame reveal.
MEETING EDGES:
Square: 1 No. 10x4mm strip exposed and fitted 7mm from the opening face in one leaf edge & 1 No. 10x4mm strip exposed and fitted 7mm from the closing face in the opposite leaf edge.
Rebated: Not permitted.
HARDARE PROTECTION : See section 12 of full report for details.

Door edge Lipping: 6-11mm Square hardwood (minimum density 640kg/m3) are required to all edges.
Overpanels: Overpanels are permitted in all approved configurations providing they incorporate a transom of a minimum specification to that stated for door frames.
Acoustic Performance: SaintFire has achieved 37dB in testing.

SAINTFIRE PRO TECH DOORBLANK engineered by
www.saintywood.com

Distributed by

International Timber
Trafford Wharf Road, Trafford Park
Manchester. M17 1 DJ
Tel: 0844 728 0343
www. Internationaltimber.com

International TIMBER

ESSGEE BLANK

International Timber



SOLID TIMBER

SAINTYFIRE doorblank comprises a tri-layer pine and spruce mixed solid timber core faced with exterior grade hardwood plywood or MDF/HDF. It has maximum strength to keep its stability but low moisture retention/swelling. It has good screw holding properties superior to most softwood.

ENGINEERED

SAINTFIRE doorblanks are engineered to use a balanced mix of Pine/Spruce lamels core and hardwood plywood. Finger jointed continuously edge glued lamels ensure no gaps anywhere. Small engineered and multidirectional components ensure the stability and negate the need for stiles and rails. Plywood on the face and back mask the engineered cores and allow for cutting, machining and further processing without compromising the integrity of the doorblank.

MULTIPLE SURFACE APPLICATIONS

SAINTFIRE doorblanks are available with a variety of surface finishes. Long grain hardwood veneers or MDF/HDF face ready for painting or re-veneering. Customer appointed different nature wood veneers also available for the finished lipped doorblanks.

ENVIRONMENT

All raw materials are fully sustainable from the legal resource to meet the European Timber Regulations and the core and plywood are also certified under FSC/PEFC certification.

SAINTFIRE PRO TECH DOORBLANK engineered by
www.saintywood.com

SAINTY BANCOM

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