



PRODUCT DATA SHEET

Listed Building Consent

Property: 175A Commercial Street (Unit 3, Westgate Building), Newport NP20 1JN

**Subject: Product and Data Sheet for Proposed Materials Part B (Ceiling and
Secondary Glazing)**



Product of TML

NOVEMBER 24, 2025

Contents:**Section A**

1. CMS Danskin Acoustic case study for a comparable listed building
2. CMS IsoMax datasheet with installation process and application section
3. Knauf Soundshield Plus datasheets
4. Gyproc SoundBloc datasheets

Section B

1. Selectaglaze product data sheet and case studies
2. Pilkington Optiphon datasheet

Section A

1. Case study of CMS Danskin Acoustics Application



Acoustic Scheme for Historic Standon Hall

ACOUSTIC insulation experts CMS Danskin Acoustics has worked with historic Standon Hall to specify and supply a range of acoustic products to reduce the impact of airborne and impact sound transmission in the Grade II listed Staffordshire venue.

During the course of redeveloping the early 20th century country house into a high-quality wedding and business venue, Standon Hall made acoustics a key element for investment. CMS Danskin Acoustic's in-house technical team conducted a site assessment in order to specify an insulation strategy to address structure borne noise and absorb sound.

The objective was to prevent noise transfer between ground floor functions rooms and nine bedrooms and suites above. Andrey Magiy, Standon Hall's MD, said, 'During this two-year project to transform the hall into an outstanding venue we had an opportunity to address acoustics as floors were lifted to install new services. It was as important to prevent sounds from above being heard in meetings and conferences below, as it was to prevent noise from ground floor functions filtering up into the bedrooms.'

Andy Hayes, CMS Danskin specification manager and IAO Affiliate, said, 'Smartspan panels span across bearing structures such as, in this case, joists. They provide high acoustic performance, are easy to install, come in different thicknesses, such as the

32mm and 18mm used at Standon Hall, and have a reaction to fire classification (EN 13501-1) A1.

‘Smartspan was also valuable for use in bathroom floors as it has excellent thermal conductivity making it ideal over UFH systems, has surface water absorption of only (EN20535) <300g/sq m is suitable for stone and ceramic finishes and, with a tongue-and-groove profile, it’s straightforward to install.’

REGUPOL Acoustic Isolation Strip was also incorporated to reduce impact noise from first floor footfall. The strips are designed to sit beneath all types of partition walls and are described by the company as a simple and effective way to reduce structure borne noise. ‘Quick and easy to install, they provide long term performance without collapse or ‘bottoming’ out under high point loads, are resistant to ageing and deformation, are manufactured using recycled materials and are 100% recyclable.’

Product Of TML

2. CMS IsoMax clip system technical details

TECHNICAL DATA SHEET

ISOMAX CLIP SYSTEM WALL OR CEILING

PRODUCT DESCRIPTION

The IsoMax Clip is a high performing sound reduction system designed to completely isolate walls and ceilings.

Attaching the IsoMax Clip to ceiling joists, timber and metal studs or masonry simply and easily secures the drywall furring channel, and decouples the gypsum board from the nonisolated structure. The resulting construction provides a resilient isolation solution for internal walls and ceilings.

BENEFITS

- Offers a robust and higher performing alternative to traditional wall and ceiling isolation methods
- Outperforms standard resilient bar construction by up to 7dB*
- Withstands greater loads than standard systems to provide peace of mind for developers and dwellers
- Reduces the risk of error at installation stage, as screws cannot be inadvertently attached to the stud or joist through the resilient area
- Works as a space saving solution for either existing or new wall constructions, with minimal encroachment into living space
- For situations where fire protection is a consideration, fire rated wall and ceiling systems are also available
- Offers one of the most cost effective methods available to achieve superior noise control in walls and ceilings while using standard materials



GENERAL INFORMATION

All potential sound leaks; gaps around outlets, window, or door frames; pipe penetrations and the like should be sealed with a non-hardening acoustical sealant.

The IsoMax Clip system is available in the UK and Ireland exclusively from CMS Danskin Acoustics as the result of a joint venture between UK based CMS Danskin Acoustics and Kinetics® Noise Control, one of the world leaders in noise control.

For information on other Kinetics® architectural and anti-vibration products available from CMS Danskin Acoustics, please contact your local branch.

WWW.CMSDANSKIN.CO.UK

CMSDANSKIN
ACOUSTICS

PAGE 1

LOAD SPECIFICATION FOR ISOMAX CLIP SYSTEM

The IsoMax Clip is designed to carry a drywall furring channel with one or more layers of gypsum wallboard attached.

The maximum design load capacity for the IsoMax Clip in shear (wall application) or in tension (ceiling application) is as follows. Design load calculations are based on tested loading to failure where the furring channel deforms and pulls out.

Design Load Maximum for Wall or Ceiling Application
22kgs per IsoMax Clip.

INSTALLATION OF ISOMAX CLIP SYSTEM - WALLS AND CEILINGS

- Spacing of IsoMax Clips on the furring channel shall be a maximum of 1200mm
- Spacing between furring channels shall be a maximum of 600mm
- Use only the CMS Danskin Acoustics furring channel.
- (Walls only) The first layer of gypsum wallboard shall align seams between sheets on the centerline of the horizontal furring channels
- (Walls only) The bottom row of IsoMax Clips with furring channel(s) should be a maximum 76mm to the center of the channel from the floor. The top row should be within 150mm of the ceiling
- (Walls only) The first row of gypsum wallboard sheets at the bottom of the wall shall be installed with the long dimension supported on 6mm thick continuous resilient isolation strip
- (Ceilings only) The IsoMax Clips should be within 150mm of the ceiling perimeter at the end of the furring channel run
- (Ceilings only) The first row of channel at the ceiling perimeter should be a maximum 150mm from the wall
- Furring channels are installed perpendicular to the framing members

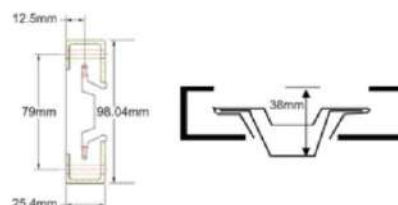
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PAGE 2

Step 1

Attach IsoMax Clips per CMS Danskin Acoustics layout guidelines for walls or ceilings. See attached layout drawings.

**Step 2**

To affix the IsoMax Clips to the sub-wall/partition Secure IsoMax Clips with a single fastener on one end only.

Into timber use No. 8 dia screws x 65mm long.

Into steel use either No. 8, 10 or 12 self tapping screws 40mm long.

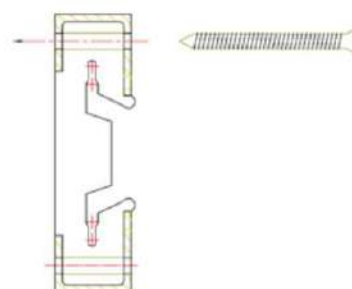
Into concrete or masonry use 4mm dia x 60mm long screws into matching Rawlplug/Fischer fixing system.

Optional

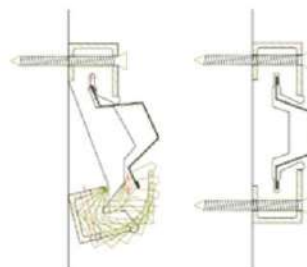
Alternate method for Step 2. Snap IsoMax Clips onto furring channel.

Hand slide IsoMax Clips to proper location on the furring channel.

Fasten both ends of the IsoMax Clip to secure the channel.

**Step 3**

Grip unsecured rubber end, snap in channel. Secure with second screw/anchor.

**FURRING CHANNEL REQUIREMENTS**

Minimum 0.7mm ga with hemmed edge.

Standard – 23mm deep channel.

Splice furring channel with a 150mm overlap and secure overlapped pieces with wire or screws per standard industry practice.

To affix the 12mm plasterboard/Soundblock board to the IsoMax channels.

For one layer use plasterboard screws suitable for self drilling into a metal stud system at 25mm in length.

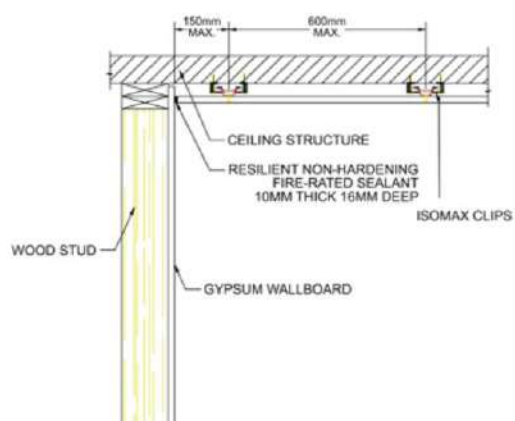
When using two layers of plasterboard the first layer should be affixed using a 25mm long screw as above, the second layer should be affixed using 35mm long screw into the channel.



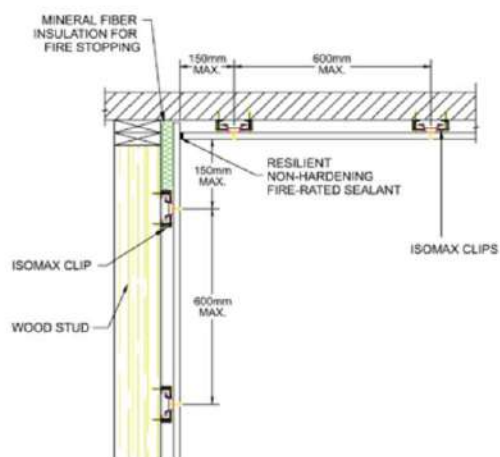
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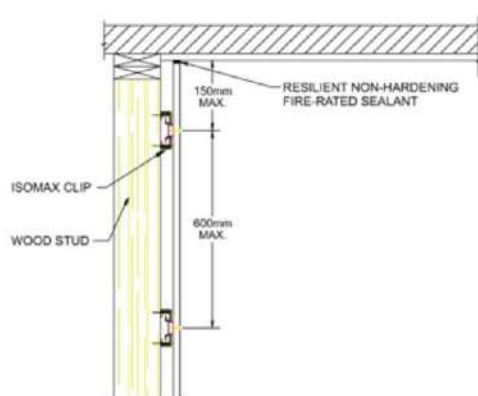
PAGE 3



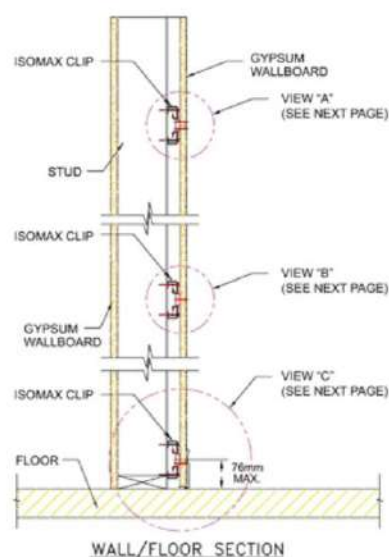
RESILIENTLY MOUNTED CEILING
WITH DIRECT ATTACHED WALL



RESILIENTLY MOUNTED WALL & CEILING



RESILIENTLY MOUNTED WALL
WITH DIRECT ATTACHED CEILING



NOTE: FOR ACOUSTICAL ISOLATION
BASE BOARD OR ANY OTHER
WALL ATTACHMENTS MUST NOT
TOUCH THE FLOOR.

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CMSDANSKIN
ACOUSTICS

3. Knauf Soundshield Plus datasheets



Knauf Soundshield Plus

Data Sheet



Knauf Soundshield Plus is the ideal plasterboard where sound reduction is of particular importance. Its high mass and tuned core give enhanced acoustic performance, excellent fire resistance and severe duty impact rating when used on Knauf systems.

Knauf Soundshield Plus, used as part of the Knauf Performer partition system, will give up to 120 minutes of fire resistance and noise reduction of 57Db. Use with Knauf Performance Plus Screws.

Compliance: 12.5mm BS EN 520 Types A and D
15mm BS EN 520 Types A, D, F and I.

Storage and Handling

Product must be stored flat, and be protected from inclement weather.

Appropriate personal protective clothing and equipment etc. should be used when handling all Knauf boards.

Manual handling guidelines should be adhered to at all times.

This board is unsuitable for areas that are continuously damp, humid or above 50°C.

Performance Data

In compliance with BS EN 520, the product is subject to initial type testing and continuous factory production control and bears the CE mark.

Technical Data

- Board weight and density:
- 12.5mm - 11.5kg/m² - 920kg/m³
- 15mm - 12.8kg/m² - 853kg/m³

For further product technical data, please refer to the Declaration of Performance.

Product Features

- Blue Face
- Brown Reverse
- White Core
- Board details printed on reverse
- Tapered Edge

Application / Installation

Use in accordance with BS 8000 British Standard Workmanship on building sites – Part 8: Code of practice for plasterboard partitions and dry linings.

Related Products

- Knauf Metal Sections
- Knauf Performance Plus Fixings*
- Knauf Sealant
- Knauf Intumescent and Acoustic Mastic
- Knauf Deflection Head Fire Seal
- Knauf Jointing Compounds, Tapes and Beads

* Collated versions also available. As Knauf Soundshield Plus is a high density board, it requires Knauf Performance Plus Fixings to be used.

Health & Safety

May irritate eyes or sensitive skin.

Dust may irritate respiratory system.

- Protective gloves, glasses and face mask are recommended.
- Avoid inhaling dust when cutting / handling product. Ventilate area and move person to fresh air.
- Avoid ingestion – wash mouth out immediately and drink plenty of water.
- Should any symptoms persist or allergic reaction occur, seek medical advice.

Refer to the product MSDS and DoP on:
www.knauf.co.uk

Please turn over for product material numbers, dimensions and pallet details.

Build for the world we live in

PRODUCT DATA SHEET

TOMILMERIAD LIMITED

DESIGNING, DEVELOPING,
SUSTAINING

Tapered Edge



Dimensions (mm)			Material No.	Pallet Details		
Thickness	Width	Length		Boards	m ²	Tonnes (Approx.)
12.5	1200	2400	292622	56	161.20	1.87
		2700	292620	48	155.5	1.81
		3000	292627	42	151.2	1.75
15.0	1200	2400	292646	48	138.2	1.79
		2700	292677	42	136.1	1.76
		3000	292678	36	129.6	1.67

Pallet weights exclude packaging.

Board weights and densities are for guidance purposes only and are subject to change.

Stated performance of plasterboard's are based on product characteristics and system testing using Knauf components.

For pricing details, please refer to the latest Knauf Price List.

KML100243

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KNAUF

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4. Gyproc SoundBloc datasheets

Product Data Sheet

Gyproc® SoundBloc 12.5mm



Gyproc SoundBloc 12.5mm is a plasterboard with a high density noise insulating core.

Where to use

Use it to achieve greater sound insulation levels through walls, ceilings and floors.

Certifications

Environmental Product Declaration (EPD) available [Click here](#).



Product information

Composition

The plasterboard is made of a gypsum core between paper liners.

Colour

Face colour: Blue.
Reverse colour: Brown.

DIMENSIONS AND WEIGHTS				
PRODUCT SIZES (mm)	1200 X 2400	1200 X 2700	1200 X 2800	1200 X 3000
Nominal thickness (mm)	12.5	12.5	12.5	12.5
Minimum weight (kg/m ²)	10.3	10.3	10.3	10.3
Edge options	Tapered edge	Tapered edge	Tapered edge	Tapered edge
Number of tapered edges	2	2	2	2
Maximum width tolerance (mm)	+0	+0	+0	+0
Minimum width tolerance (mm)	-4	-4	-4	-4
Maximum length tolerance (mm)	+0	+0	+0	+0
Minimum length tolerance (mm)	-5	-5	-5	-5
Maximum taper width (mm)	80	80	80	80
Minimum taper width (mm)	40	40	40	40
Maximum taper depth (mm)	2.5	2.5	2.5	2.5
Minimum taper depth (mm)	0.6	0.6	0.6	0.6
Squareness: 1200mm width boards (maximum difference in diagonal measurements), 5mm				

NB: Dimensional tolerances. Quality controls are set to meet customer requirements between these maximum and minimum tolerances.

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Page 1 of 3
PDS Gyproc SoundBloc 12.5mm (23 February 2024)

Product Data Sheet

Gyproc® SoundBloc 12.5mm



Performance

Here we only provide performance information related to the product. Please see the White Book for system-dependent performance.

Standards

EN 520:2004+A1:2009, Type D.

Declarations of Performance (DoP) available [Click here](#).

Reaction to fire	A2-s1, d0
Thermal conductivity (W/mK)	0.25
Water vapour permeability (μ)	10
Maximum continuous temperature exposure (°C)	49

Installation

Effect of condensation

The thermal insulation and ventilation requirements of national Building Regulations aim to reduce the risk of condensation and mould growth in new buildings. However, designers should take care to eliminate all possibility of problems caused by condensation, particularly in refurbishment projects.

Cutting

Either cut the board with a plasterboard saw, or score the front face paper with a sharp knife, snap it over a straightedge, then cut the back face paper. Cut holes for things like socket boxes using a utility saw.

Screw fixing

Fix the boards with the decorative side facing outwards to receive finishes. Install the fixings at least 13mm from the cut edges and 10mm from the bound edges. Position cut edges at internal angles wherever possible. Stagger horizontal and vertical joints between layers by at least 600mm.

Adhesive fixing

Fix the boards with the decorative side facing outwards to receive finishes. Install using Gyproc DriWall Adhesive, following the application instructions for either DriLynr Dab or DriLynr Fix system.

Finishing

After fixing the board, start finishing it as soon as you can to limit the risk of damage or UV degradation to the paper liner.

Plastering

You can finish the board using Thistle® or ThistlePro® plaster.

Jointing

You can finish the board using Gyproc jointing products.

Painting

Decoration should start as soon as possible after the finishing system is dry. Jointing systems should be finished with Gyproc Drywall Primer before painting.

Wallpapering

Decoration should start as soon as possible after the finishing system is dry. Jointing systems should be finished with Gyproc Drywall Sealer before application of wallcoverings.

Snagging and minor repairs

For minor damage and dents, check that the board core isn't shattered. If it's intact, fill the damaged area with Gyproc EasiFill 60, allow it to set, then apply a second coat if you need to. When it's dry, sand it to a finish before redecorating the area.

For a damaged core, broken edges or extensive damage, repair and replacement procedures differ depending on the number of board layers and fire resistance of the system; please contact our Technical Support Team for specific advice.

Section B

1. Selectaglaze product data sheet and case studies

5

Primary window
The outer or existing window frame.

Cavity
The gap between the primary and secondary windows.

Glazing
Glazing complies with BS 6262: 2005, the Code of Practice for glazing in buildings, and meets the requirements of Building Regulations Part K4.
Glass thickness varies from 4mm to 28mm depending on the product and application.
Other glazing options include:

Enhanced thermal • low emissivity (hardcoat) • sealed glass unit (various specifications) Enhanced acoustic • acoustic laminates Safety • toughened • laminated Solar control • body tinted	Privacy • patterned • opaque laminate • screen printed or etched • switchable glass • sealed glass unit with integral blind Clarity • anti-reflective glass • low iron glass Security • anti-bandit laminates • polycarbonate sheet • glass/polycarbonate composites
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Grounds and sub-frames
Custom made timber grounds can accommodate splayed or out of shape openings. All timber grounds and sub-frames are made from certified timber products.

Sealants
Timber grounds, sub-frames and aluminium frames are bedded on an acrylic sealant to provide a lasting perimeter seal.

Selectaglaze has a policy of continual product improvement and innovation; therefore the company reserves the right to change product specifications without prior notice. Colours shown in this brochure are as accurate as allowed for by the printing process.

www.selectaglaze.co.uk

selectaglaze

Case study: Banqueting House, London

The stunning Grade I Listed Banqueting House, managed and cared for by Historic Royal Palaces, was designed by Inigo Jones between 1619 and 1622 after its predecessor was destroyed by fire. It has stood witness to many historical events, most famously, King Charles I was executed, in Cromwell's time, outside the building in 1649 on a temporary scaffold specially built for the occasion.

Banqueting House still contains the only surviving in-situ ceiling painting series by Sir Peter Paul Rubens, a breath-taking canvas masterpiece commissioned by Charles I to commemorate his father's life, King James I.

The security window installations were part of the first phase of works to repair and restore this building. Security was a key concern when planning the works, as was reducing noise from the busy Whitehall outside. The design replaced the blast net curtains and allows daylight once again to flood into the Main Hall, as well as providing a significant level of noise insulation to ensure visitors peace and tranquillity when viewing the Rubens.

Selectagaze was approached to provide a fitting bespoke solution that not only offered protection to the large windows, but was a discreet and unobtrusive window treatment, to blend in with the historic interior.



Selectagaze has products certified to the requirement, but they had never been specified to these sizes (the Main Hall window openings were 3.6m high and 2.0m wide). Blast testing was carried out on the largest ever single casement to be tested in the UK. The results were a success and planning for the installation began.

Installing the units provided a challenge as half the openings were at upper gallery level 10m above the main floor. The gallery could not be loaded. Working very closely with Gardner & Theobald, structural engineers Hockley & Dawson and Royal Warrant holding scaffolders Allen and Foxworthy, a careful method of installation was devised involving a columnar scaffolding design complete with lifting apparatus to each opening. In all, 39 units were installed.



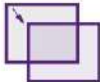
18

Product selector

HORIZONTAL SLIDER (HS)	VERTICAL SLIDER (VS)	HINGED CASEMENT (HC)
RECOMMENDED APPLICATION Ideal where easy access is a priority, sashes slide within the frame so no problems with blinds or curtains; large and ribbon windows can be accommodated by linking units.	RECOMMENDED APPLICATION Ideal for treating sash windows; operates with spring balances which support the weight of the sash in all positions.	RECOMMENDED APPLICATION Offers full and easy access to an outer window or door. Neat and unobtrusive with single casements having no mullions or transoms to impede the view.
SERIES 10 Page 20 Stimline versatile framing system in 2, 3 or 4 pane options that provides easy access to the outer window.	SERIES 20 Page 24 Stimline framing system ideal for treating traditional sash windows often found in heritage properties.	SERIES 45 Page 30 Stimline framing system suitable for treating many types of window and standard sized doors. When fitted to traditional sash windows new sight lines are avoided. Single casements accredited to Secured by Design.
SERIES 15 Page 21 Mid-range discrete framing system in 2 or 3 pane options for larger windows; also accepts thicker glass to achieve higher noise insulation.	SERIES 25 Page 25 Mid-range framing system with higher capacity balances for larger windows; supports thicker glass to achieve higher noise insulation, accredited to Secured by Design.	SERIES 41 Page 31 Heavy duty framing system suitable for large windows and doors; supports thicker glass for higher noise insulation and both single and double casements accredited to Secured by Design.
SERIES 80 Page 22 Heavy duty framing system in 2, 3 or 4 pane options for very large windows. 2 and 3 pane versions accredited to Secured by Design.	SERIES 90 Page 26 Heavy duty framing system with specialist balances that allows very large sash windows to be treated and is accredited to Secured by Design.	SERIES 50 Page 32 High security framing system capable of treating very large windows and doors; provides significant levels of intruder resistance and blast mitigation.
SERIES 85 Page 23 High security framing system in 2 panes only, providing significant levels of intruder resistance and blast mitigation.	SERIES 95 Page 27 High security framing system capable of providing significant levels of intruder resistance and blast mitigation.	SERIES 47 Page 33 Specialist framing system with very slim profiles to allow installation within the staff bead of smaller, traditional sash windows.
	SERIES 60 Page 28 Specialist framing system allowing individual panes to tilt inwards on safety stays to assist with cleaning.	

selectagaze

For technical support and advice please telephone: 01727 887271

LIFT-OUT (LO)	FIXED LIGHT (FL)	DEMOUNTABLE FIXED LIGHT (DFL)
		
		
RECOMMENDED APPLICATION	RECOMMENDED APPLICATION	RECOMMENDED APPLICATION
Offers a practical solution for treating windows which are rarely opened, but require occasional access for cleaning or maintenance.	Generally used in combination with other products as over lights or side lights and particularly useful for arched windows.	Provides secure glazing to vulnerable windows and vision panels to Control Rooms and Laboratories.
SERIES 31 Page 34	SERIES 46 Page 38	
Slimline framing system usually applied to smaller windows.	Slimline framing system suitable for smaller windows. Can be shaped and curved.	
SERIES 45 Page 35		
Slimline framing using Series 45 hinged profiles without hinges. Suitable for larger and curved windows.		
SERIES 41 Page 36	SERIES 42 Page 39	SERIES 43 Page 42
Heavy duty framing using Series 41 hinged profiles without hinges. Suitable for very large and curved windows; supports thicker glass for higher noise insulation.	Heavy duty framing system accepting thicker glass for higher noise insulation. Can be shaped and curved and is accredited to Secured by Design.	Heavy duty framing system offering intruder resistance and blast mitigation. Minimal section size suited to heritage buildings.
		SERIES 55 Page 43
	SERIES 40 Page 40	High security framing system providing significant intruder resistance, blast mitigation and protection against hand guns.
	Specialist framing system offering 30 minutes fire integrity.	

www.selectaglaze.co.uk

selectaglaze

Case study: Lighthouse Building

Once a building at risk, and on the Historic England's register deemed unsafe for use, the Grade II Listed Lighthouse building has been carefully renovated into a quieter and warmer office and retail space with the help of Selectaglaze.

Adjacent to Kings Cross and round the corner from St. Pancras, sits the iconic Flat-Iron Lighthouse Building. No one knows when it was built exactly, but there are indications it was somewhere between 1875 - 1884; the purpose of the building is also unknown. Some speculate the building once sold oysters, others say the Lighthouse may have been used to spot fires or even a camera obscura; it still remains a mystery today.

Having lain derelict for over 20 years, UK Real Estate took on the enormous task of restoring and revitalising the iconic building for its new purpose as office and retail space and appointed Balfour Beatty as its main contractor. The project wasn't without its challenges, with two underground tunnels running beneath; the building's restoration had to be carefully managed, including tackling the issues of noise and vibrations.

The solution to the extensive noise and vibration issues was to isolate all internal fixtures and fittings by inserting elastomeric bearing pads at all points of contact with the external structure. Secondary glazing was an intrinsic component of this solution as a fully independent internal window system allows the full sealing of the new internal envelope.



Selectaglaze recommended the use of 8mm toughened glass, glazed to Series 25 and Series 90 vertical sliders and Series 41 lift out units, designed to suit the style and sightlines of the primary window. In total Selectaglaze installed 83 units all of which were bespoke to each opening.

When there is a cavity of at least 100mm between the primary and secondary glazing a reduction of 45dB is achievable. An additional benefit of secondary glazing is thermal retention, with the use of high performance twin seals, it virtually eradicates unwanted drafts and a U-value of 1.8 is possible.



SERIES 47 HERITAGE

HINGED CASEMENT



An extremely slim hinged casement unit that will fit within the staff bead position of a traditional sash window and is designed to provide high levels of thermal insulation with minimal intrusion.



FEATURES

- Strong, purpose designed flush hinges colour matched to frame
- 4mm toughened, low-E glass
- Multipoint latch (ref L16)
- Removable colour matched operating catch (ref H19)
- 90° restrictor stay
- Twin compression seals ensure high sealing efficiency
- Fixings are concealed within the frame

FRAME COLOUR

Stock finish is white HIPCA 9910 semi-gloss
Any standard powder paint, wood grain finish or anodised finish to order

OPTIONS

No options available

DIMENSIONS

Recommended maximum frame

Format	Height (mm)	Width (mm)
SINGLE SIDE HUNG	2000	1000

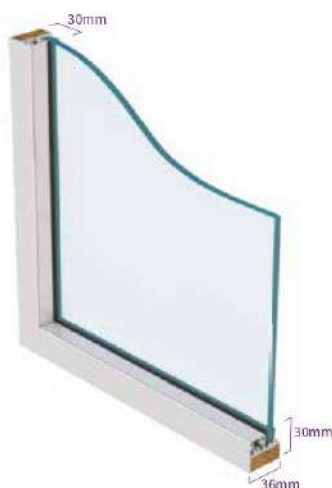
Minimum sash (h)400mm x (w)300mm

www.selectaglaze.co.uk

selectaglaze



A very slim fixed frame unit normally used in combination with other window styles which can be shaped and curved to a full circle and achieves Secured by Design accreditation.



FEATURES

- Concealed room side fixing channel
- Rectangular frames may be linked with a colour matched aluminium transom/mullion section

DIMENSIONS

Recommended maximum frame

Format	Height (mm)	Width (mm)
FIXED PANE	2200	1400

Minimum (h)300mm x (w)300mm

Fixed panels used on their own should be subject to a risk assessment covering means of escape and condensation management



FRAME COLOUR

Stock finish is white HIPCA 9910 semi-gloss

Any standard powder paint, wood grain finish or anodised finish to order

OPTIONS

Glazing	4mm to 6.8mm
Frames	Curved head, jamb or full circle – minimum radius 220mm

selectaglaze

CAD files for all products can be downloaded from our website
For technical support and advice please telephone: **01727 837271**

SERIES 42 HEAVY DUTY / SECURITY
FIXED LIGHT


39

A heavy duty fixed frame unit capable of providing blast mitigation to level EXV25 of ISO 16933 and intruder resistance to levels SR1 or SR2 of standard LPS1175, equivalent to bars and grilles. It also achieves Secured by Design Accreditation. The frame can be shaped or curved to a full circle.


FEATURES

- 20mm glass edge cover
- Concealed room side fixing channel
- Rectangular frames may be linked with a colour matched aluminium transom/mullion section

DIMENSIONS

Recommended maximum frame

Format	Height (mm)	Width (mm)
FIXED PANE	3000	2000

Minimum (h)300mm x (w)300mm

Fixed panels used on their own should be subject to a risk assessment covering means of escape and condensation management


FRAME COLOUR

Stock finish is white HIPCA 9910 semi-gloss

Any standard powder paint, wood grain finish or anodised finish to order

OPTIONS

Glazing	6mm to 12.04mm
Frames	Curved head, jamb or full circle – minimum radius 400mm

www.selectaglaze.co.uk

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Performance tables

THERMAL – TYPICAL U-VALUES

Product	Timber primary + secondary unit 100mm cavity				Metal primary + secondary unit 100mm cavity			
	6mm	6mm low-E	4-12-4 SU low-E and gas	24mm enhanced thermal sealed unit	6mm	6mm low-E	4-12-4 SU low-E and gas	24mm enhanced thermal sealed unit
	S10 HS	2.629	1.807		2.911	1.936		
	S80 HS	2.640	1.810		2.920	1.940		
	S85 HS	2.700	1.840		3.000	1.970		
	S20 VS	2.617	1.802		2.897	1.930		
	S60 VS	2.639	1.812		2.924	1.942		
	S90 VS	2.615	1.801		2.894	1.929		
	S95 VS	2.698	1.840		2.996	1.974		
	S41 HC	2.581	1.785	1.627	2.852	1.910	1.731	1.34
	S45 HC	2.576	1.782		2.846	1.908		
	S50 HC	2.589	1.788	1.700	2.862	1.915	1.813	1.38
	S30 LO	2.585	1.787		2.858	1.913		
	S41 LO	2.581	1.785	1.627	2.852	1.910	1.731	1.34
	S45 LO	2.576	1.782		2.846	1.908		
	S40 FL	2.574	1.781	1.435	2.843	1.906	1.515	1.21
	S46 FL	2.579	1.784		2.850	1.910		
	S55 DFL	2.612	1.800		2.891	1.927		

These figures are calculated using modelling software by The Centre for Window and Cladding Technology (CWCT) at The University of Bath. All figures are in W/m²K.

Assumptions

1. The timber primary window has 6mm glass and a typical overall U-value of 4.71 W/m²K.
2. The metal primary window has 6mm glass and a typical overall U-value of 5.7 W/m²K.
3. The window size is 1480mm x 1230mm i.e. BFRG (British Fenestration Rating Council) size.

Notes

1. The depth of cavity has a small effect
Example: Series 10 Horizontal Slider using low-e glass against a timber primary window
50mm cavity = 1.737
100mm cavity = 1.807
200mm cavity = 1.883
2. The proportion of aluminium to glass in the window has an effect
Example: Series 50 DSHC using Low-e sealed units with Gas
BFRG standard size: 1480 x 1230 = 1.927
Large size: 3000 x 1500 = 1.733

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Performance tables (continued)

ACOUSTIC – TYPICAL R_w dB VALUES WITH 150mm CAVITY

Primary glass thickness (mm)	Secondary glass thickness (mm)															
		S10 HS	S80 HS	S85 HS	S20 VS	S60 VS	S90 VS	S95 VS	S41 HC	S45 HC	S50 HC	S30 LO	S41 LO	S40 FL	S46 FL	S55 DFL
6	4mm toughened	45			45	46			47	47		44	47	47		
6	6mm toughened	45	46		45	46	46		47	47	46	44	47	47	47	
6	6.4mm	45	46		45	46	46		47	47		44	47	47		
6	6.4mm stadip silence	46	47		46	47	47		48	48		45	48	48		
6	6.8mm	46	47		46	47	47		48	48		45	48	48		
6	6.8mm stadip silence	46	47		46	47	47		48	48		45	48	48		
6	7.5mm		47				46	46	48		47		48	48		46
6	8mm toughened		48				48		49				49	49		
6	8.8mm		48				48		49				49	49		
6	8.8mm stadip silence		48				48		49		48		49	49		
6	9.5mm		48	47			48	47	49		48		49	49		47
6	10mm toughened		48				48		49				49	49		
6	10.8mm		49				48		50		49		50	50		
6	10.8mm stadip silence		49				48		50		49		50	50		
6	11.5mm		49	48			49	48	50		49		50	50		48
6	12mm toughened		49				48		50				50	50		

A range of Selectaglaze products and specifications have been tested at the Taylor Woodrow Technology Centre. The results have then been interpreted by Hann Tucker Associates, consultants in Acoustics, to extrapolate and interpolate sound reduction values for the wider range.

Notes

R_w Correction Factors (based upon laboratory tested scenarios)

1. Acoustic tiles on 3 sides with low spec glass +2dB
2. Acoustic tiles on 3 sides with high spec glass +1dB
3. Acoustic vent (4000 mm²) – open -2dB
4. Trickle vent (4000 mm²) – open -3dB
5. Trickle vent (8000 mm²) – open -5dB

The tested vent sizes predate the current Approved Document F which requires 5000mm² equivalent area in each Habitable room. The figures are therefore indicative of performance.

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For technical support and advice please telephone: **01727 837271**

Case studies



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Secondary Glazing

Plumstead Library



Benefit: Warmer and Quieter

Type: Refurbishment

Listing: Grade II

Working with award winning architects Hawkins Brown Associates LLP and Main contractor Osborne Construction, 63 secondary glazed units have been installed during the remodelling and refurbishment of Plumstead Library, to make it more thermally efficient and to create quieter spaces for the local community user groups.

This Grade II Listed building in the Royal Borough of Greenwich is of great architectural and historic interest. It is one of the earliest funded libraries by Andrew Carnegie, a Scottish/American philanthropist in the US and British empire in the time of Queen Victoria and Edward VII. The building was constructed to the designs of Frank Sumner, Woolwich Borough council Engineer at the time and officially opened in 1904. The library formed part of community civic centre and social buildings – many of which are now demolished. A first floor museum was later added, opening in 1919. Over the ensuing years, areas of the library were closed to the public and used as offices and storage, and in

the late 20th century the museum closed. The building started to fall into a state of disrepair, losing its charm, appeal and comfort which it once had, with little public use.

Following on from the Historic England listing in 2016, the Royal Borough of Greenwich decided to use



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Secondary Glazing



the building as a champion for the Plumstead Urban Framework, making it one of the critical elements of the regeneration of the local High Street and surrounding area. As part of the first phase, the reworking and renewal of the Library started in 2018, enabled by a £16.6 million local authority backed scheme.

Occupying a corner plot on the busy A206, Plumstead High Street, with high volume traffic and London transport passing by, noise was of great concern. In addition, the single glazed metal framed original windows did little to prevent heat loss or draughts, which was going to hamper the sustainability of the building and add to the on-going running costs. Given the function of the internal spaces – quiet, reflective, cosy reading areas of the library for the local residents to use, a solution was needed to combat these issues. As the building is Grade II Listed, the original windows could not be changed, so a reversible adaptation had to be found. Hawkins Brown Associates decided that Selectaglaze secondary glazing would pose the most effective solution to improve the thermal efficiency as well as dramatically reduce the noise ingress.

On the north elevation, facing the high street, the library has two magnificent sweeping bow windows, which occupy the majority of the ground floor. On the

first floor and the return elevation facing east, where the offices and museum once were, there are a number of metal single glazed windows in various configurations. They allow light to flood the spaces, but did little to help the comfort levels of the spaces. Well sealed and tightly installed secondary glazing significantly improves the performance of original windows. If used in conjunction with metal framed openings, U-values of 1.9 and reductions of 45dB (if fitted with 150mm cavity) can be achieved.

A total of 63 Selectaglaze units across the 2 facades were installed, which including Series 10-3 pane horizontal sliders, Series 80 – 3 pane horizontal sliders and more. Each sweeping bay overlooking the high street were built up with seven Series 20 vertical sliders, transom coupled to seven Series 45 side hung casements. This configuration complimented the sightlines of the primary windows and allowed full access for cleaning, maintenance and natural ventilation if required. Expertly measured and prepared timbers were needed for these openings. The rear face was curved to match the line of the bow, with a square face to facet fix the secondary glazing too.

After months of highly skilled refurbishment works, the Library re opened in early 2020. It is set to become a sustainable and cultural destination in the Plumstead area and a great legacy for one of the remaining Carnegie libraries in the UK.



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Case study



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Secondary Glazing

64-65 Sloane Street



Benefit: Warmer and Quieter

Type: Change of Use

Selectaglaze secondary glazing was chosen as an ideal solution to provide high levels of acoustic and thermal insulation, leading to a more comfortable and peaceful environment.

Falling within the Royal Borough of Chelsea and Kensington, Sloane Street is internationally recognised as one of London's best addresses, famed for its luxury stores, chic shopping and rarefied property market.

Under the stewardship of the Cadogan Estate, Charles "Sloane" 1st Earl Cadogan, sold a development lease to architect and builder Henry Holland – perhaps better known as the son-in-law of "Capability Brown". Holland laid out the street plan for the area encompassing Sloane Street, Sloane Square and Hans Place – to be known for half a century as "Hans Town".

In the early 1800s Jane Austin moved to No. 64 Sloane Street to be with her brother and literary agent, Henry. It was here that she wrote 'Sense and Sensibility'. This magnificent six storey property, along with its neighbour No.65 has been refurbished, and now provides office accommodation to the very highest modern standards.



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By Appointment to
Her Majesty The Queen
Manufacturer and Supplier
of Secondary Glazing
Selectaglaze Ltd.

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Secondary Glazing



Selectaglaze's very wide product range allowed sympathetic designs for a variety of window styles, including gently curving bays and arched headed frames.

A total of 95 windows were treated mostly with hinged and sliding systems, all with a white powder painted finish to match the interior décor. Toughened safety glass with a low emissivity coating provides very high insulation levels. All frames are bespoke manufactured and individually site measured to ensure the closest fit and optimum sealing.

Founded in 1966, Royal Warrant holder Selectaglaze is a specialist in the application of secondary glazing within buildings of all styles. Products are fully tested and assessed for performance and twice yearly quality audits are conducted through the company's ISO 9001 accreditation and LPCB.

An extensive range of literature and guidance notes covering acoustics, thermal performance and added security is available together with a technical advisory service and a RIBA approved CPD Seminar.



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1. Pilkington Optiphon datasheet



Pilkington Optiphon™ - acoustic performance data

Glass types	Acoustic performance data [dB]			Total thickness [mm]
	R _w	C	C _{tr}	
Single glazing				
Pilkington Optiphon™ 6,8	36	-1	-4	6.8
Pilkington Optiphon™ 8,8	37	0	-2	8.8
Pilkington Optiphon™ 10,8	38	-1	-3	10.8
Pilkington Optiphon™ 12,8	40	-1	-3	12.8
Pilkington Optiphon™ 16,8	41	-1	-3	16.8
Pilkington Optiphon™ 20,8	42	-1	-3	20.8
Pilkington Optiphon™ 24,8	43	-1	-3	24.8
Double insulating glass units				
4 mm - 16 mm - Pilkington Optiphon™ 6,8	36	-2	-6	26.8
4 mm - 16 mm - Pilkington Optiphon™ 8,8	39	-3	-7	28.8
6 mm - 16 mm - Pilkington Optiphon™ 6,8	40	-2	-6	28.8
6 mm - 16 mm - Pilkington Optiphon™ 8,8	41	-2	-6	30.8
8 mm - 16 mm - Pilkington Optiphon™ 6,8	42	-3	-7	30.8
8 mm - 16 mm - Pilkington Optiphon™ 8,8	42	-3	-8	32.8
8 mm - 16 mm - Pilkington Optiphon™ 10,8	43	-2	-6	34.8
8 mm - 16 mm - Pilkington Optiphon™ 12,8	43	-2	-6	36.8
10 mm - 16 mm - Pilkington Optiphon™ 8,8	44	-2	-6	34.8
10 mm - 18 mm - Pilkington Optiphon™ 8,8	43	-2	-6	36.8
10 mm - 20 mm - Pilkington Optiphon™ 8,8	46	-2	-6	38.8
10 mm - 16 mm - Pilkington Optiphon™ 12,8	44	-1	-5	36.8
Pilkington Optilam™ 9,5 - 20 mm - Pilkington Optiphon™ 8,8	43	-3	-7	38.3
Pilkington Optilam™ 14,8 - 20 mm - Pilkington Optiphon™ 14,8	47	-1	-3	49.6
Pilkington Optiphon™ 8,8 - 16 mm - Pilkington Optiphon™ 12,8	48	-2	-7	37.6
Pilkington Optiphon™ 8,8 - 20 mm - Pilkington Optiphon™ 12,8	49	-2	-7	41.6
Pilkington Optiphon™ 10,8 - 24 mm - Pilkington Optiphon™ 16,8	52	-2	-6	51.6
Pilkington Optiphon™ 12,8 - 16 mm - Pilkington Optiphon™ 14,8	51	-2	-6	43.6
Pilkington Optiphon™ 12,8 - 16 mm - Pilkington Optiphon™ 16,8	51	-1	-6	45.6
Pilkington Optiphon™ 12,8 - 20 mm - Pilkington Optiphon™ 16,8	51	-1	-4	49.6
Triple insulating glass units				
6 mm - 12 mm - 4 mm - 12 mm - Pilkington Optiphon™ 8,8	42	-3	-8	42.8
6 mm - 14 mm - 4 mm - 14 mm - Pilkington Optiphon™ 8,8	43	-2	-7	44.8
6 mm - 16 mm - 4 mm - 16 mm - Pilkington Optiphon™ 8,8	42	-2	-7	50.8
8 mm - 12 mm - 4 mm - 12 mm - Pilkington Optiphon™ 8,8	43	-2	-7	44.8
8 mm - 16 mm - 4 mm - 16 mm - Pilkington Optiphon™ 8,8	45	-3	-7	52.8
8 mm - 12 mm - 6 mm - 12 mm - Pilkington Optiphon™ 10,8	44	-2	-7	48.8
8 mm - 12 mm - 6 mm - 12 mm - Pilkington Optiphon™ 12,8	45	-1	-5	50.8
8 mm - 14 mm - 6 mm - 14 mm - Pilkington Optiphon™ 12,8	46	-2	-6	54.8
10 mm - 14 mm - 6 mm - 14 mm - Pilkington Optiphon™ 12,8	46	-1	-3	56.8
Pilkington Optiphon™ 8,8 - 12 mm - 4 mm - 12 mm - Pilkington Optiphon™ 8,8	46	-2	-7	45.6
Pilkington Optiphon™ 8,8 - 12 mm - 6 mm - 12 mm - Pilkington Optiphon™ 10,8	47	-2	-7	49.6
Pilkington Optiphon™ 8,8 - 12 mm - 6 mm - 12 mm - Pilkington Optiphon™ 12,8	49	-1	-7	51.6
Pilkington Optiphon™ 8,8 - 14 mm - 6 mm - 12 mm - Pilkington Optiphon™ 12,8	49	-1	-6	53.6
Pilkington Optiphon™ 8,8 - 14 mm - 6 mm - 14 mm - Pilkington Optiphon™ 12,8	50	-2	-7	55.6

R_w (C_{tr}/C_{tr}) are determined in accordance with EN 717-1.

Insulating glass units filled with argon (90%).

To calculate other performance data please use Pilkington Spectrum online calculator at <https://spectrum.pilkington.com> or Pilkington Spectrum mobile app.