

This City residential development, Ancoats, Manchester

Land to the West of Rodney Street | Wates Construction | Condition 11 - External Materiality
RODSTA-BUT-ZZ-XX-RP-A-01104 | Rev: PL2 | PLANNING

Buttress



Version history

Project name: This City residential development, Ancoats, Manchester
Project number: 9139
Client: Wates Construction Ltd

Rev:	Date:	Status	Name	Description
DR	03.09.22	DRAFT	Seb Drayson I Senior Architect	DRAFT ISSUE
PL1	19.10.22	INFORMATION	Seb Drayson I Senior Architect	PLANNING ISSUE
PL2	20.10.22	INFORMATION	Seb Drayson I Senior Architect	PLANNING ISSUE

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Buttress

Buttress Architects Ltd.
41 Bengal St.
Manchester
M4 6AF

T: 0161 236 3303
W: www.buttress.net

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Introduction

This document has been prepared in support of the consented planning application ref. 134154/VO/2022 for the site on Rodney Street. The following document provides further details on the external materiality of the scheme (as requested in Condition 11) and shows a considered palette of simple robust materials.

Section 1.0 provides a table of the materials currently proposed for the scheme across both blocks A & B.

Section 2.0 contains manufacturer data & precedent imagery where applicable.

For information regarding external detailing, such as jointing and fixing details, details of the drips to be used prevent staining and ventilation please refer to consented drawings -

RODSTA-BUT-A-XX-DZ-A-01040 Residential Block A - Bay Study 1

RODSTA-BUT-A-XX-DZ-A-01041 Residential Block A - Bay Study 2

RODSTA-BUT-B-XX-DZ-A-01042 Residential Block B - Bay Study 1

RODSTA-BUT-B-XX-DZ-A-01043 Residential Block B - Bay Study 2

RODSTA-BUT-ZZ-XX-DD-A-01055 Residential Block A-B Coordinating through wall Window-Ventilation Details

RODSTA-BUT-T-XX-DD-A-01057 Townhouses Coordinating through wall Window Details

1.0

Materiality Overview



1.0 Block A & B - Elevations

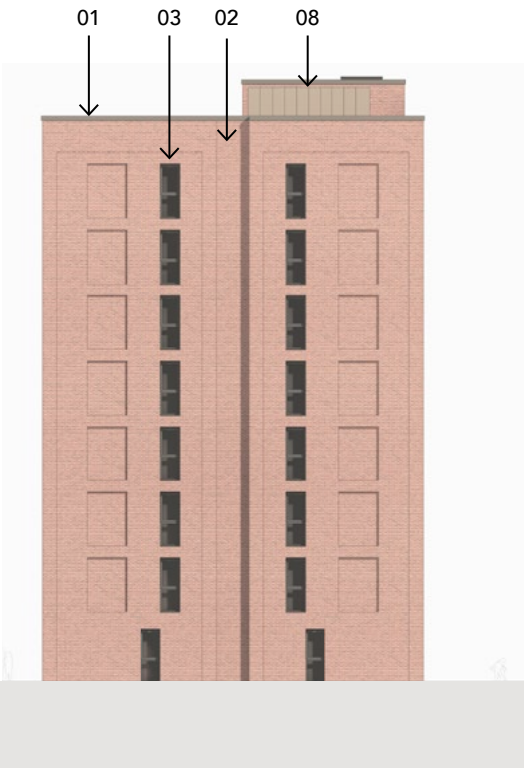
1.1 Block A - Elevations

Key

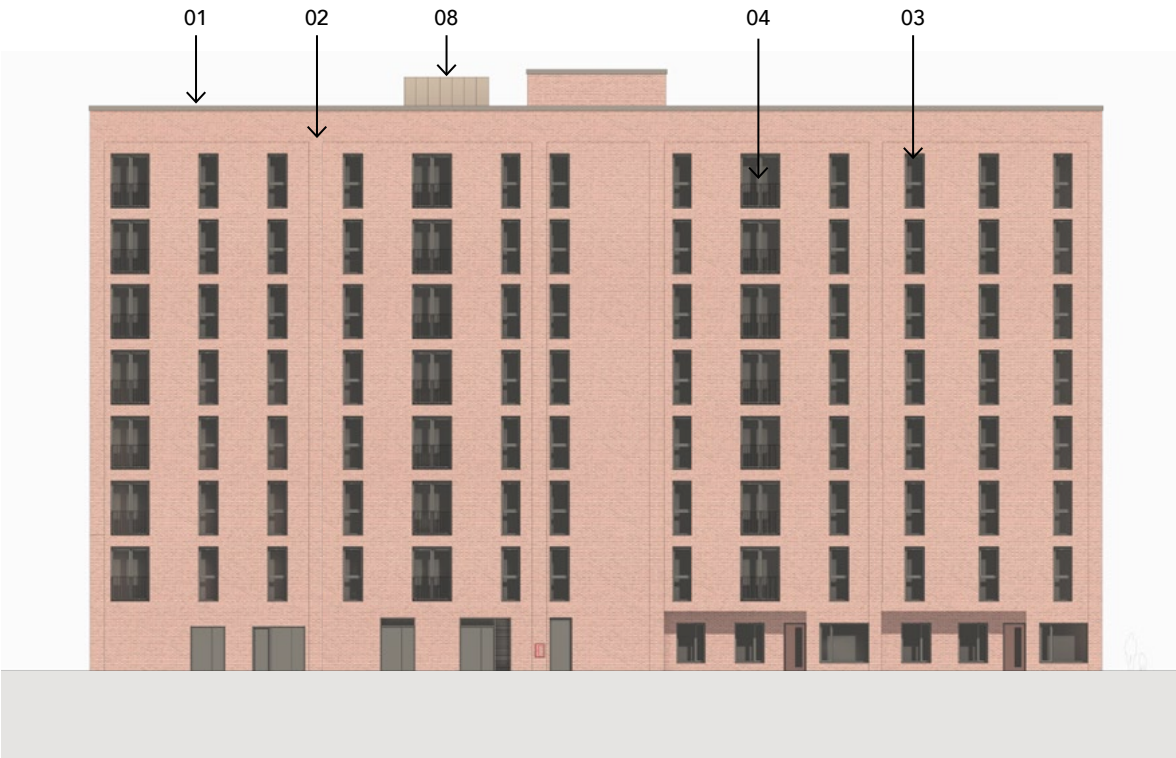
- 01 PPC Alumnum Coping
- 02 Facing Brickwork
- 03 Windows – Aluminium Composite
- 04 PPC steel juliet balcony
- 05 Veneered Apartment Entrance Doors
- 06 Curtain walling system with alumnum profiles
- 07 Roller shutter garage door
- 08 Solid Acoustic Screening to rooftop generator (Block A only)
- 09 Bespoke slatted metalwork to Block B Cycle store external wall



Block A - South Elevation



Block A - East Elevation



Block A - North Elevation

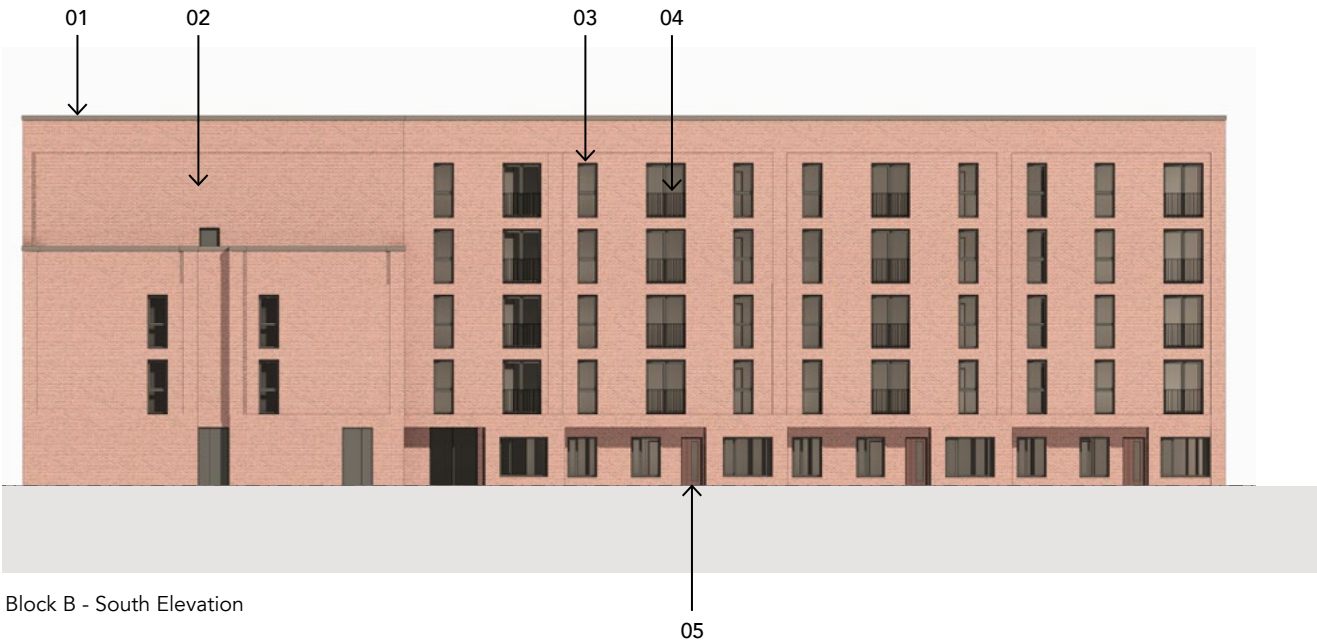


Block A - West Elevation

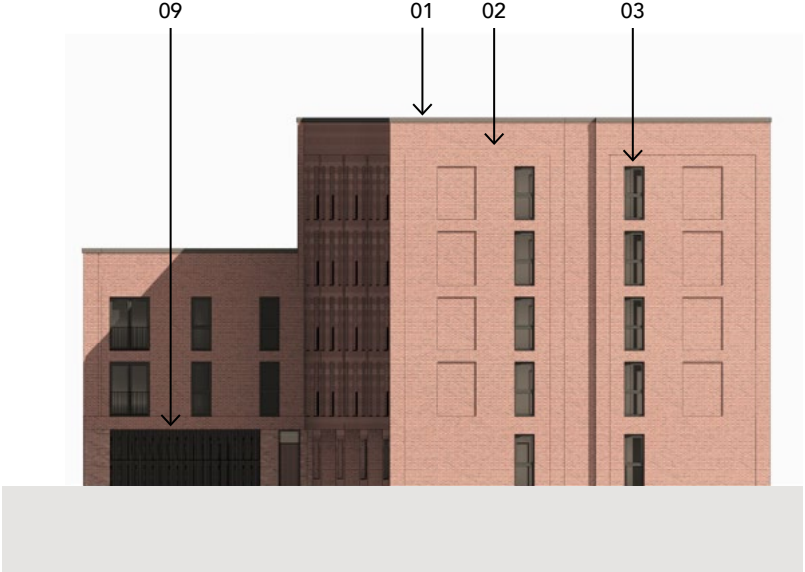
1.2 Block B - Elevations

Key

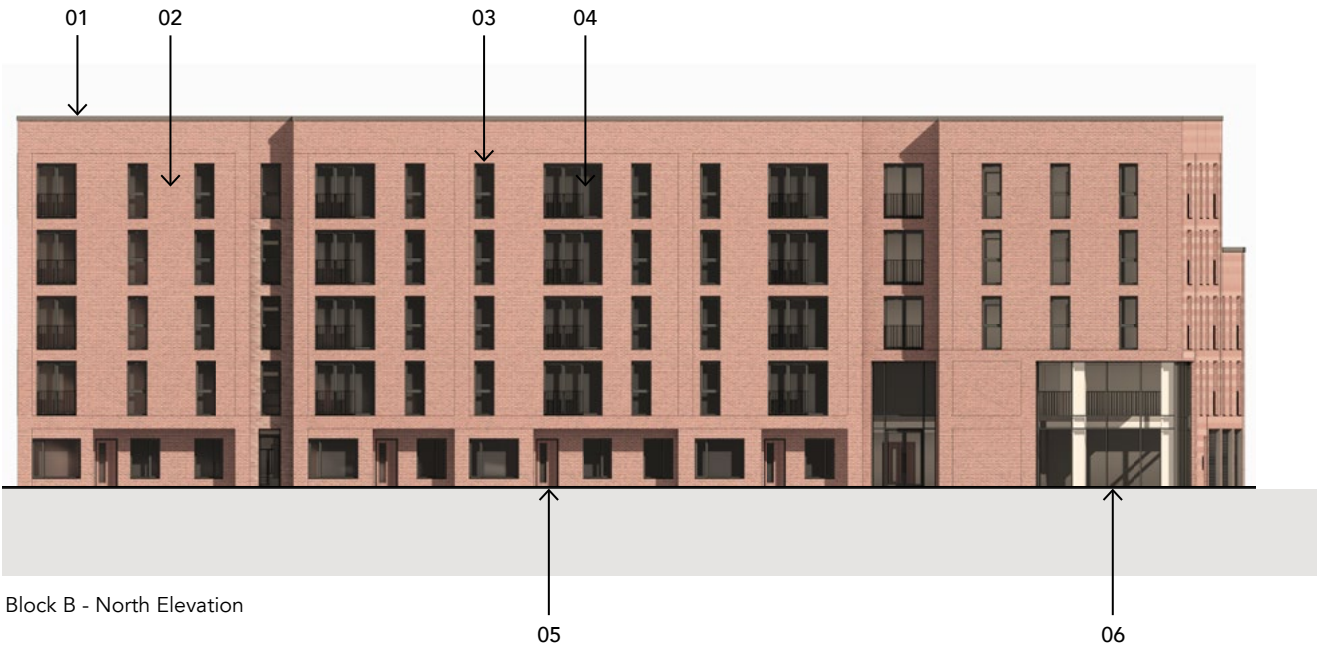
- 01 PPC Aluminium Coping
- 02 Facing Brickwork
- 03 Windows – Aluminium Composite
- 04 PPC steel juliet balcony
- 05 Veneered Apartment Entrance Doors
- 06 Curtain walling system with aluminium profiles
- 07 Roller shutter garage door
- 08 Solid Acoustic Screening to rooftop generator (Block A only)
- 09 Bespoke slatted metalwork to Block B Cycle store external wa



Block B - South Elevation



Block B - East Elevation



Block B - North Elevation



Block B - West Elevation

1.3 Material Schedule - Block A & Block B

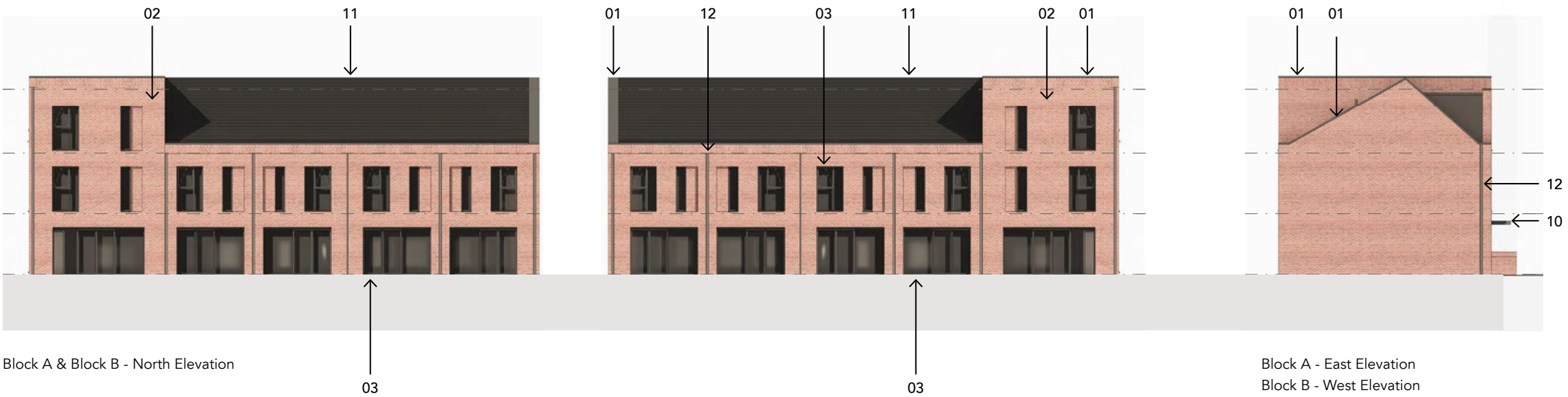
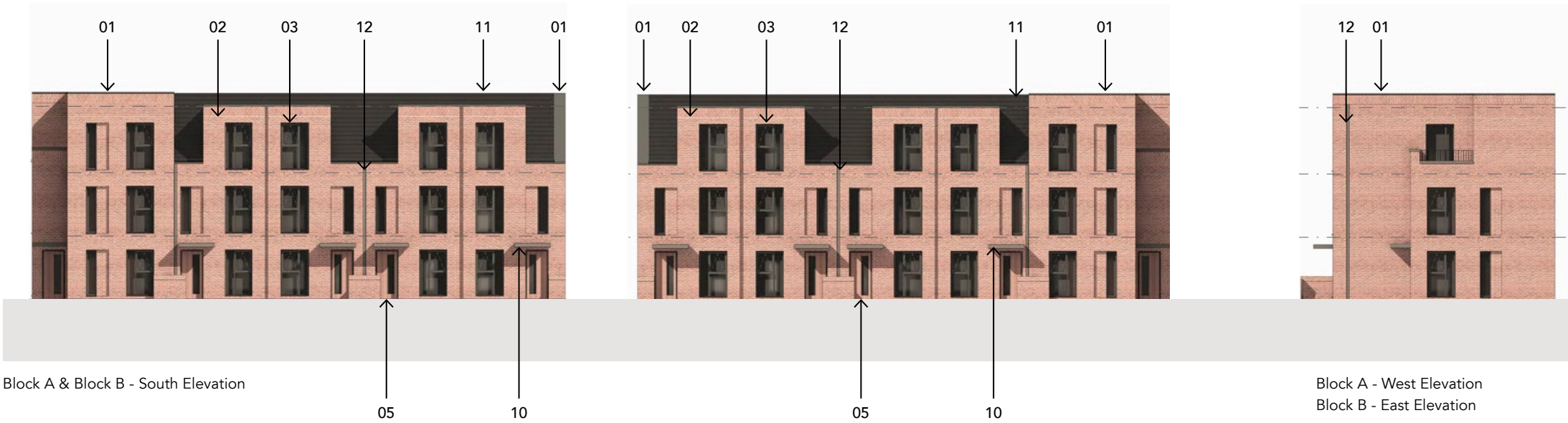
Key	Item/Description	Supplier	Page	Link	Finish/Specification	Sample
01	PPC Aluminium Coping	TBC	Pg. 13	n/a	Dark Grey (RAL 7016) to match all other metal elements and window profiles	Yes - Available for review at Buttress office
02	Facing Brickwork	Weinerberger	Pg. 14	https://www.wienerberger.co.uk/product-range/bricks/blended-red-multi-gilt-stock.html	Blended Red Multi Gilt Stock Manufacturers ref. 24320180	Yes - Available for review at Buttress office
03	Windows – Aluminium Composite triple glazed window system	Internorm	Pg. 15	https://www.internorm-architecture.com/en/windows-doors/kf-410-hp-kst/	Dark Grey (RAL 7016) alumnium window profiles	Yes - Available for review at Buttress office
04	Juliet balcony, PPC steel balustrading integrated with window system	TBC	Pg. 13	n/a	Dark Grey (RAL 7016) to match all other metal elements and window profiles	Ral 7016 metalwork available for review at Buttress office
05	Ground level private apartment entrance doors	PDS Doorsets	Pg. 16	https://pdsdoorsets.co.uk/product/eco-doorsets/	Finish Wood Veneer - Ash Manufacturers ref. Eco Doorset EPDS 48 FL	Please refer to Section 2.0
06	Curtain Walling system with alumnium profiles	Technal	Pg. 17	https://www.technal.com/en/uk/products/curtain-wall/tental-50/feature-caps/	Aluminium framed curtain walling system with Dark Grey (RAL 7016) profiles (50mm width)	Please refer to Section 2.0
07	Roller shutter garage door	SWS	Pg. 18		Door and profiles to match metalwork generally. Powdercoated Dark Grey (RAL 7016).	Please refer to Section 2.0
08	Solid acoustic screening on Block A roof	Caice	Pg. 19	https://www.caice.co.uk/acoustic-screens/	RAL 9002 Grey White solid panels. Support framework with	Please refer to Section 2.0
09	Bespoke slatted metalwork to Block B Cycle store external wall	TBC	Pg. 20	n/a		Please refer to Section 2.0



1.4 Elevations - Townhouses

Key

- 01 PPC Aluminium Coping
- 02 Facing Brickwork
- 03 Windows – Aluminium Composite
- 05 Veneered Apartment Entrance Doors
- 10 PPC aluminium faced canopies to entrances
- 11 Concrete interlocking roof tiles
- 12 PPC aluminium clad rainwater pipes



1.5 Material Schedule - Townhouses

Key	Item/Description	Supplier	Page	Link	Finish/Specification	Sample
01	PPC Aluminium Coping	TBC	Pg. 13	n/a	Dark Grey (RAL 7016) to match all other metal elements and window profiles	Yes - Available for review at Buttress office
02	Facing Brickwork	Weinerberger	Pg. 14	https://www.wienerberger.co.uk/product-range/bricks/blended-red-multi-gilt-stock.html	Blended Red Multi Gilt Stock Manufacturers ref. 24320180	Yes - Available for review at Buttress office
03	Windows – Aluminium Composite triple glazed window system	Internorm	Pg. 15	https://www.internorm-architecture.com/en/windows-doors/kf-410-hp-kst/	Dark Grey (RAL 7016) aluminium window profiles	Yes - Available for review at Buttress office
05	Ground level private apartment entrance doors	PDS Doorsets	Pg. 16	https://pdsdoorsets.co.uk/product/eco-doorsets/	Finish Wood Veneer - Ash Manufacturers ref. Eco Doorset EPDS 48 FL	Please refer to Section 2.0
10	PPC aluminium faced canopies to entrances	TBC	Pg. 13	n/a	Dark Grey (RAL 7016) PPC	Please refer to Section 2.0
11	Concrete interlocking roof tiles	Marley	Pg. 21	https://www.marley.co.uk/edgemere	Marley Edgemere Duo Ref. Smooth Grey	Yes - Available for review at Buttress office
12	PPC aluminium clad rainwater pipes	TBC		n/a	Dark Grey (RAL 7016) PPC	Please refer to Section 2.0

2.0

Manufacturers Information

2.0 Manufacturers Information / Precedent Imagery

2.1 PPC Aluminium Coping, Juliet balconies, PPC steel balustrading, Window profiles, Louvres finishes in RAL 7016 (Anthracite)



Precedent Imagery of the Adelphi Development in Salford with coordinated metalwork in RAL 7016

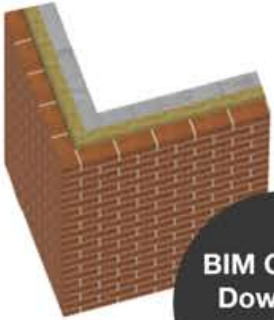
2.2 Facing Brickwork



Product Technical Information Sheet	
Wienerberger Code	24320180
Production Plant	Waresley
Manufacture	Soft Mud Moulded Stock
Configuration	Frogged
Colour	Red Multi
Appearance	Flat/Sanded
Work Size (mm)	215 x 102.5 x 65
Pack Quantity	500 No.
Individual Dry Brick Weight (kg)	2.2

Technical Properties to BS EN 771-1	
Size Tolerance (Mean/Range)	T2/R1
Gross Dry Density (kg/m³ /Tolerance)	1540 (D1)
Compressive Strength (N/mm²)	≥21
Thermal Conductivity (W/(m·K))	P=90% 0.55
λ _{10, dry, unit} value (EN 1745 tabulated: S1)	
Durability Designation	F2
Water Absorption (%)	≤18
Initial Rate of Water Absorption (kg/(m²·min))	Min. 1.4 Max. 3.0
Active Soluble Salts	S2
Reaction to Fire	Class A1

Issue Date: 09/09/2020
Technical data correct at time of issue. Individual dry brick weights can vary and are for guidance only. Any questions regarding this data should be referred to the Wienerberger Technical Department. Due to the limitations of screen and print colour representation of product images it is advised that brick samples are viewed prior to ordering.



2.3 Windows – Aluminium Composite Triple Glazed Window System

RAL 7016 Aluminium Profiles



home pure **KF 410**
UPVC &
UPVC/ALUMINIUM WINDOW

- TECHNICAL DATA:

Design

Thermal insulation

Sound insulation

System description
- Modern square-edged design outside and inside

Thermal insulation with standard triple glazing and highly insulating edge seal
($U_g = 0.5 \text{ W/m}^2\text{K}$) $U_w = 0.72 \text{ W/m}^2\text{K}$
For best energy efficiency SOLAR+ glazing ($U_g = 0.6 \text{ W/m}^2\text{K}$ and g value 62 %) $U_w = 0.79 \text{ W/m}^2\text{K}$

Soundproofing up to 45 dB (with corresponding glazing)

90 mm construction depth
Can be coupled with KV 440 and can be combined with timber/ aluminium windows
Fully concealed hardware
Visible or concealed drainage
Upon request with shortened aluminium attachment clad for thermo-technically optimised construction connection
Triple gasket system
Fix-O-Round Technology
Standard security
5 chamber system with highly heat insulating thermal foam (HCFC, HCF and FC free)
I-tec ventilation available upon request
Passive house certified in the standard version acc. to ift Rosenheim



UPVC VERSION
Besides the version with aluminium attachment clad in all colours, the classic UPVC white version is also available.



**I-TEC GLAZING
FIX-O-ROUND TECHNOLOGY**
Continuous all around fixing of the glass pane for better stability, thermal insulation and soundproofing, burglary protection and safe functioning.

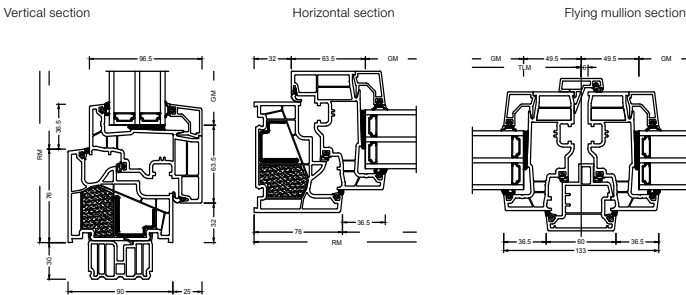


I-TEC VENTILATION
Continuous fresh air for the whole room and your well-being. Uncontrolled airing leads to energy losses. The I-tec ventilator is equipped with a heat exchanger. Heat recovery reduces the energy losses to a minimum.

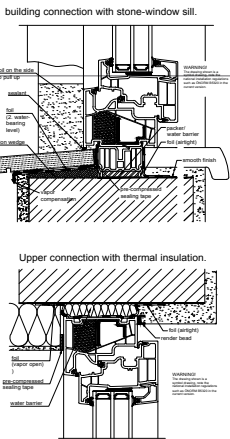
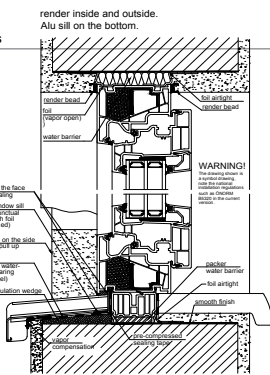
UPVC AND UPVC/ALUMINIUM WINDOW
KF 410



Sectional drawings

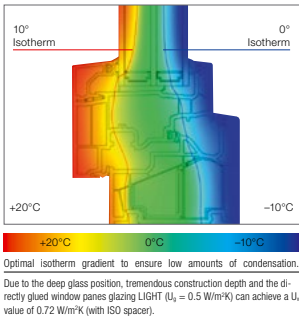


Construction connections



ATTENTION! The depicted drawing is symbolical only, please adhere to the national fitting guidelines such as ONORM B5320 in its respective valid version.

Technical information



- 5 chamber UPVC profiles with highly heat insulating thermal foam (HCFC, HFC and FC free) and sendzimir-galvanised reinforcement iron in frame.
- Inside: white
 - Outside: available with aluminium clad in all RAL colours as well as attractive timber decor, metallic decor, HF, HFM and ,stainless steel look' colours
 - Frame profile with construction depth of 90 mm
 - Sash profile with construction depth of 96.5 mm
 - 2 gaskets in sash profile (stopper and centre gasket) in light grey
 - Frame stopper gasket in UPVC version in light grey, in UPVC/aluminium version - choice of light grey or black
 - Frame and post connections are welded
 - Glazing thickness: 48 mm
 - Fitting versions: wall cramp, rawl plug or screw fitting

UPVC AND UPVC/ALUMINIUM WINDOW
KF 410



Values

System	Glass construction	Glass Code	Spa cer	Coating	U _g	U _f	Ψ _s	Thermal Certif.	g & C	U _o	U _o	Sound Certif.		
KF410	4b/18Ar/4/18Ar/4	3N2	Iso	light	0.5	0.96	0.033	0.72	yes	34	-2	-6	yes	
				solar+	0.6	0.96	0.033	0.79	yes	34	-2	-6	yes	
				Alu	light	0.5	0.96	0.073	0.82	yes	34	-2	-6	yes
				solar+	0.6	0.96	0.073	0.89	yes	40	-2	-6	yes	
	6b/18Ar/4/18Ar/4	33U	Iso	light	0.5	0.96	0.033	0.72	yes	40	-2	-6	yes	
				solar+	0.6	0.96	0.033	0.79	yes	40	-2	-6	yes	
				Alu	light	0.5	0.96	0.073	0.82	yes	40	-2	-6	yes
				solar+	0.6	0.96	0.073	0.89	yes	40	-2	-6	yes	
	4b/16Ar/4/15Ar/18Ar/4 2(VSG-S)	34N	Iso	light	0.6	0.96	0.033	0.79	yes	42	-3	-8	yes	
				solar+	0.7	0.96	0.033	0.86	yes	42	-3	-8	yes	
				Alu	light	0.6	0.96	0.073	0.89	yes	42	-3	-8	yes
				solar+	0.7	0.96	0.073	0.96	yes	42	-3	-8	yes	
	6b/18Ar/5/18Ar/18Ar/4 2(VSG-S)	3NT	Iso	light	0.5	0.96	0.033	0.72	yes	43	-	-	no	
				solar+	0.6	0.96	0.033	0.79	yes	43	-	-	no	
				Alu	light	0.5	0.96	0.073	0.82	yes	43	-	-	no
				solar+	0.6	0.96	0.073	0.89	yes	43	-	-	no	
	6b/16Ar/5/18Ar/18Ar/4 2(VSG-S)	3NU	Iso	light	0.5	0.96	0.033	0.72	yes	44	-	-	no	
				solar+	0.6	0.96	0.033	0.79	yes	44	-	-	no	
				Alu	light	0.5	0.96	0.073	0.82	yes	44	-	-	no
				solar+	0.6	0.96	0.073	0.89	yes	44	-	-	no	
	44b 2(VSG-S) 15Ar/4/12Ar/18Ar/4 2(VSG-S)	3FH	Iso	light	0.7	0.96	0.033	0.86	yes	45	-1	-5	no	
				solar+	0.8	0.96	0.033	0.93	yes	45	-1	-5	no	
				Alu	light	0.7	0.96	0.073	0.96	yes	45	-1	-5	no
				solar+	0.8	0.96	0.073	1.0	yes	45	-1	-5	no	

Values

System	Glass construction	Glass Code	Spacer	Coating	U _g	U _f	Ψ _s	Thermal Certif.	g	U _o	U _o	Sound Certif.	
KF410 without foam insert	4b/18Ar/4/18Ar/4	3N2	Iso	light	0.5	1.1	0.033	0.77	yes	34	-2	-6	no
				solar+	0.6	1.1	0.033	0.84	yes	34	-2	-6	no
			Alu	light	0.5	1.1	0.073	0.87	yes	34	-2	-6	no
				solar+	0.6	1.1	0.073	0.93	yes	34	-2	-6	no
	6b/18Ar/4/18Ar/4	33U	Iso	light	0.5	1.1	0.033	0.77	yes	40	-2	-6	no
				solar+	0.6	1.1	0.033	0.84	yes	40	-2	-6	no
			Alu	light	0.5	1.1	0.073	0.87	yes	40	-2	-6	no
				solar+	0.6	1.1	0.073	0.93	yes	40	-2	-6	no
	4b/16Ar/4/15Ar/18Ar/4 2(VSG-S)	34N	Iso	light	0.5	1.1	0.033	0.84	yes	42	-3	-8	no
				solar+	0.7	1.1	0.033	0.90	yes	42	-3	-8	no
			Alu	light	0.6	1.1	0.073	0.93	yes	42	-3	-8	no
				solar+	0.7	1.1	0.073	1.0	yes	42	-3	-8	no
	6b/18Ar/5/18Ar/18Ar/4 2(VSG-S)	3NT	Iso	light	0.5	1.1	0.033	0.77	yes	43	-	-	no
				solar+	0.6	1.1	0.033	0.84	yes	43	-	-	no
			Alu	light	0.5	1.1	0.073	0.87	yes	43	-	-	no
				solar+	0.6	1.1	0.073	0.93	yes	43	-	-	no
	8b/16Ar/5/18Ar/18Ar/4 2(VSG-S)	3NU	Iso	light	0.5	1.1	0.033	0.77	yes	44	-	-	no
				solar+	0.6	1.1	0.033	0.84	yes	44	-	-	no
			Alu	light	0.5	1.1	0.073	0.87	yes	44	-	-	no
				solar+	0.6	1.1	0.073	0.93	yes	44	-	-	no
	44b 2(VSG-S) 15Ar/4/12Ar/18Ar/4 2(VSG-S)	3FH	Iso	light	0.7	1.1	0.033	0.90	yes	45	-1	-5	no
				solar+	0.8	1.1	0.033	0.97	yes	45	-1	-5	no
			Alu	light	0.7	1.1	0.073	1.0	yes	45	-1	-5	no
				solar+	0.8	1.1	0.073	1.1	yes	45	-1	-5	no

Internorm Windows UK Ltd
Unit D, Colindale Business Park
2-10 Carlisle Road, NW9 0HN, London
Tel.: +44 (0) 208 205 9991
Fax: +44 (0) 208 905 8744
Email: office@internorm.co.uk

www.internorm.com

ATTENTION: Glass codes with Ug better than 0.7 and aluminium spacers are not recommended due to the low temperature in the glass edge area and need to be ordered via special enquiry.

2.4 Veneered Apartment Entrance Doors

Manufacturers Ref. Eco Doorset EPDS 48 FL

Finish Wood Veneer - Ash

Ironmongery TBA



EPDS 48

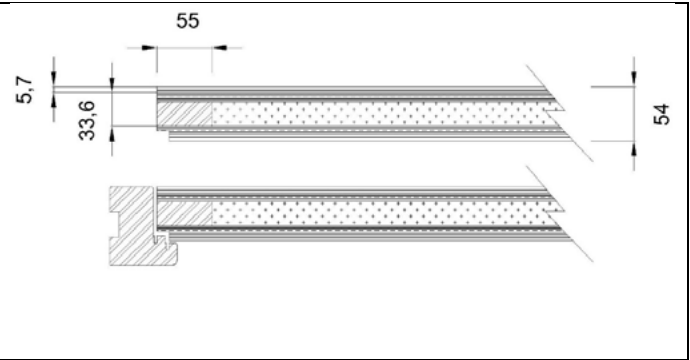


THE UK SPECIALIST
DOORSET COMPANY

PDS Eco



CERTIFICATION AND TESTING	
Dual directional testing	N/A
Primary test evidence to EN 1634 available	N/A
PAS24 tested	✓
BS6375 pt. 1/2/3 tested	✓
CE Marked	✓
Configurations	
Fire Rated Security Door	
Non Fire Rated Security Door	✓
Internal	✓
External	✓
Pairs	✓
Glazed	✓
Sidelight	✓
Fanlight	✓
Max Leaf Size for SBD	
939x2075	
Door Thickness	
44mm	
Max Glazing Size for SBD	
565x1085	
Acoustic Rating	
No evidence	
Thermal Rating	
0.8 W/M2K	
Design Options	
Chen Chen Veneered Clear Face	✓
Grooved Designs	✓
Fully Factory Finished – Painted	✓
*Paint mixed on site we can colour match	
Fully Factory Finished – Painted Dual Colour	✓
*Paint mixed on site we can colour match	
Fully Factory Finished – Stained	✓
*Paint mixed on site we can colour match	
Fully Factory Finished – Dual Colour Paint/Stained	✓
*Paint mixed on site we can colour match	



Door Handings (Viewed from the Outside)				
				
Right Hand Opening In	Left Hand Opening In	Unequal Pair Right Hand Master Opening In	Unequal Pair Left Hand Master Opening In	Equal Pair Opening In

Applications	Benefits	Sectors
Flat Entrance	Fast lead times	Social Housing
Main Entrance	Can be prepared for a large range of hardware	Commercial
Riser Cupboard/Duct Doors	Bespoke sizes	Public Sector
Corridor/Stairwell	Range of configurations	Education
Communal Entrance	Flexibility of specification	Health
Room/Stores	Phased deliveries	
Bathroom	Great customer support	
Toilet Lobby		

Key Features
Heavy Duty Doorset
Style and Rail construction
Large Range of Finishes
Aluminium vapour barrier to protect from moisture ingress
Can be painted or stained to an outstanding finish
Extremely good U-Values

2.5 Curtain Walling system with alumnium profiles

RAL 7016 Aluminium Profiles



FACADES
TENTAL 50

THE CIRCULAR FACADE

The TENTAL curtain wall was created with a view to offering architects and consultants an extensive range of solutions, giving them as much creative freedom as possible when designing a facade.

AESTHETICS AND MODULARITY

- Multiple exterior aspects:
 - Feature cap aspect
 - Horizontal line aspect
 - Vertical line aspect
 - Flat cap aspect
 - Structural silicone glazed aspect
 - Bead glazed aspect
- Collection of caps that mark the identity of each facade
- A full pallet of exclusive colours
- Facet solution up to +/- 10°
- 90° corner post
- Concealed drainage with a central seal for panel drainage (available in 2022)

LARGE DIMENSIONS

- Large infills up to 6 m²
- Maximum infill weight: up to 500 kg according to EN 13830
- Maximum glazing thickness 62 mm

Performances: according to EN standards
Air permeability: 1500 Pa
Water tightness: up to RE 1500 Pa
Wind pressure resistance:

- Service pressure up to 2000 Pa
- Security pressure up to 3000 Pa

Burglary resistance: RC1N, RC2N, RC2, RC3
Impact resistance: I5/E5
Thermal performance:

- U_i up to 0.53 W/m²K
- U_{cw} up to 1.4 W/m²K (with $U_g = 1.1$ W/m²K)

Acoustic performance: $R_w [C;C_{tr}] = 43 [-1 ; -3]$ dB

INSTALLATION AND ASSEMBLY

- 3 glazing installation techniques:
 - Continuous pressure plate
 - Punctual pressure plate
 - Structural glazing
- Patented dry connection method (available in 2022)

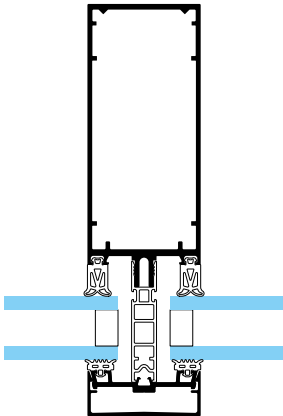
SUSTAINABLE CIRCULAR FACADE

- Designed for assembly and disassembly
- Components are made of 75% recycled and 95% recyclable material.
- Cradle to Cradle® under certification
- Available in Hydro CIRCAL®, aluminium made with a minimum of 75% recycled end-of-life aluminium. This aluminium has one of the lowest CO₂ footprints worldwide: 2.3 kg of CO₂/kg aluminium.
- Dynamic EPD available on TechDesign

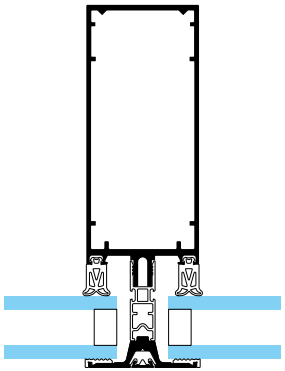


By  Hydro

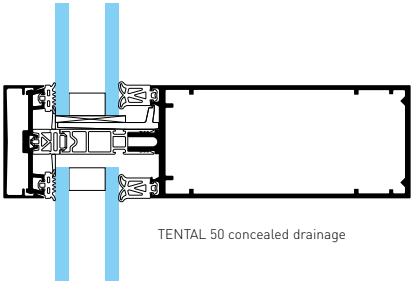
APPLICATIONS



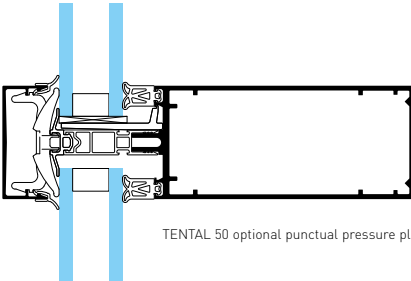
TENTAL 50 Feature Caps



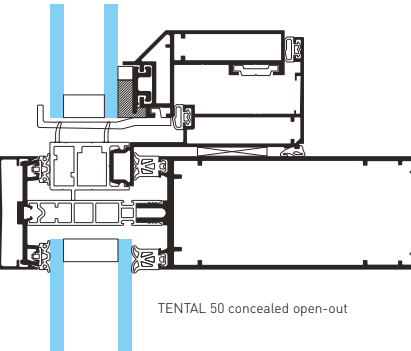
TENTAL 50 Flat Caps



TENTAL 50 concealed drainage



TENTAL 50 optional punctual pressure plate



TENTAL 50 concealed open-out

Local entity
Address
Country
Tel. +XX XXXX XX XX XX
www.technal.com



By  Hydro

XXXX XXX - December 2021 - Document non contractuel

2.6 Roller shutter garage door

Manufacturers Ref. SeceuroGlide Roller Excel

PPC RAL 7016



	SeceuroGlide Roller Garage Doors
Technology	State of the art rolling code technology and holiday mode
Police Approval	Secured by Design on the Excel and Original*
Loss Prevention Certification	SeceuroGlide Excel was the UK's first roller garage door to achieve Loss Prevention Standard 1175
	SeceuroGlide Original certified to LPS2081 for internal face fixing*
Anti-Fallback	Anti-fallback safety device fitted as standard
Fail Safe	Self-checking optical safety system with triple chamber rubber edge
CE Marking	CE Marked products that are compliant with safety legislation
Lighting	LED courtesy light with optional supplementary lighting output
Customisation	Bespoke powder coating finishes to match modern windows and composite doors
Hand Transmitters	Choice of 2 hand transmitters from a wide selection included with every door
Control System	Choice of market leading control systems including SeceuroSense Plus and Somfy
Home Automation	Home automation compatible and mobile phone connectivity available
Nationwide Distributors	Installed nationwide by a trusted network of local specialist installers
Quality	Quality installation from formally trained fitting teams
Warranty	5-year warranty with free extended 7-year automation warranty on registration
Heritage	The UK's leading manufacturer of roller doors for more than 35 years
Reputation	A name you can trust with a strong reputation throughout the garage door industry
Professionalism	An active member of the Door Hardware Federation
Financial Security	Financially secure as part of a multi-national group of companies
Quality	ISO9001 accredited quality management system
Literature	Premium brochure with compliance and accreditation information
Environmental Management	ISO14001 accredited environmental management system
Packaging	Eco-friendly packaging

SeceuroGlide | Excel

High Security, Insulated Garage Doors

Secured by Design

Police Preferred Specification

LPCB

U.K.A.S

Approved L800 9001 & ISO 14001

Cert L800 9001 2007

Security Rating: Level 1

Strength & Security

100 mm fluted axle, extruded aluminium hinges and top rail, provide greater strength when the door is in operation and in the locked position.

Reveal Fit

The **SeceuroGlide Excel** boasts Secured by Design and insurance approved Level One Security Rating for internal face and reveal fixtures.

Secured by Design

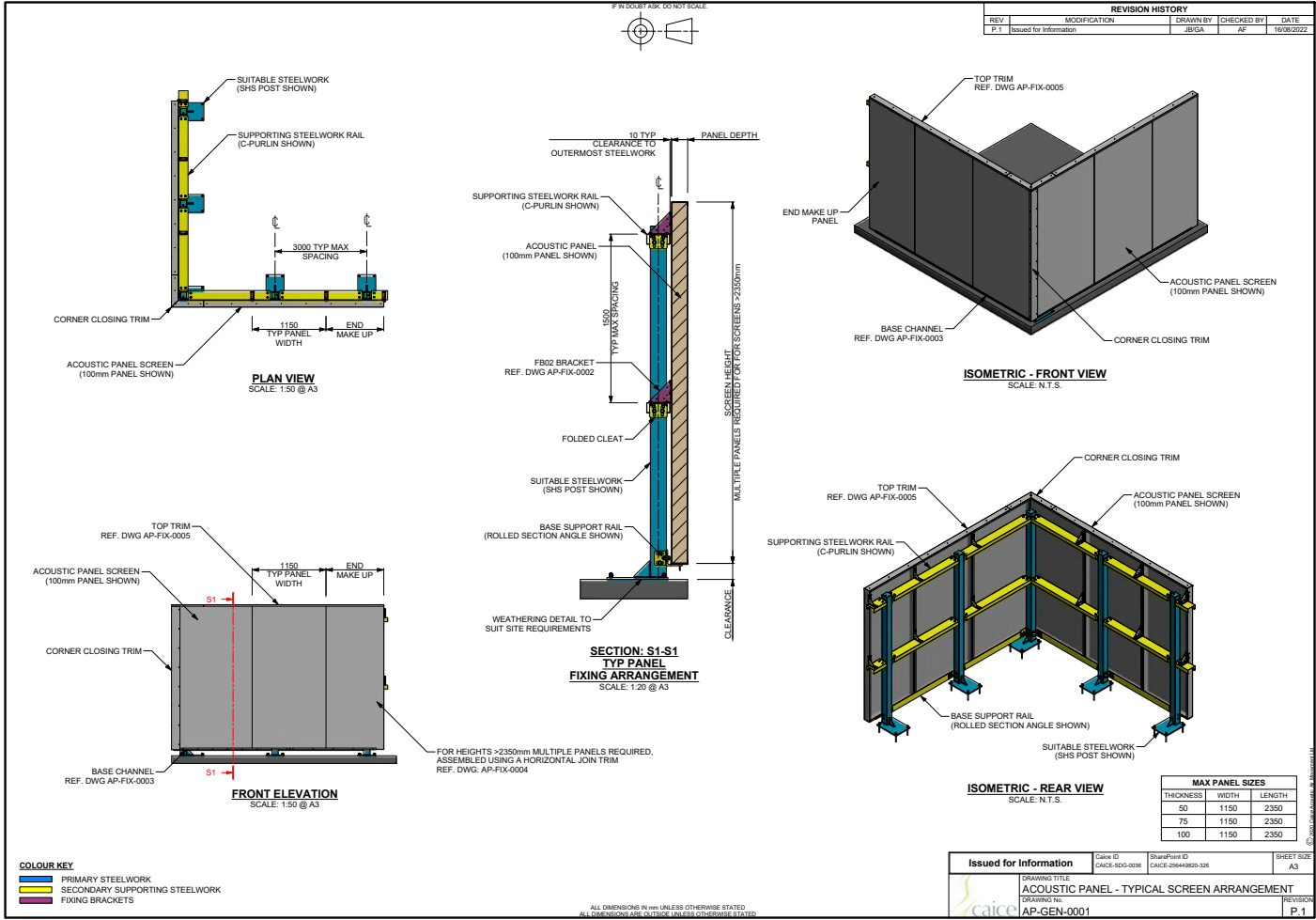
Upgraded 90 mm channels as standard, work alongside locking bottom slats to provide greater security, one of many features which make this door accredited by Secured by Design, even on between fit installations. Locking bottom slat on the **SeceuroGlide Excel** is designed to prevent the door being pushed out of the guides by an intruder.

Security & Noise Reduction

Webbing on each side of the curtain provides additional security whilst also reducing the noise made by the curtain for smooth, ultra-quiet operation.

2.7 Solid Acoustic Screening to rooftop generator (Block A only)

RAL 9002 Grey White



Acoustic Panel Enclosures & Screen Installations

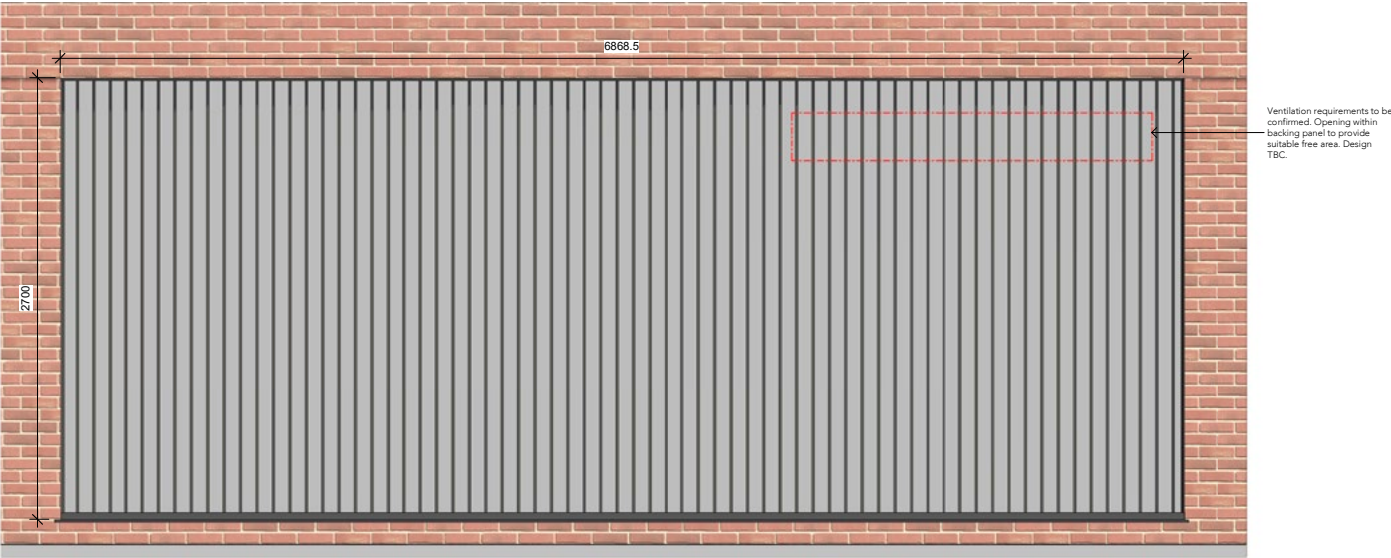


2.8 **Bespoke slatted metalwork to Block B Cycle store external wall**

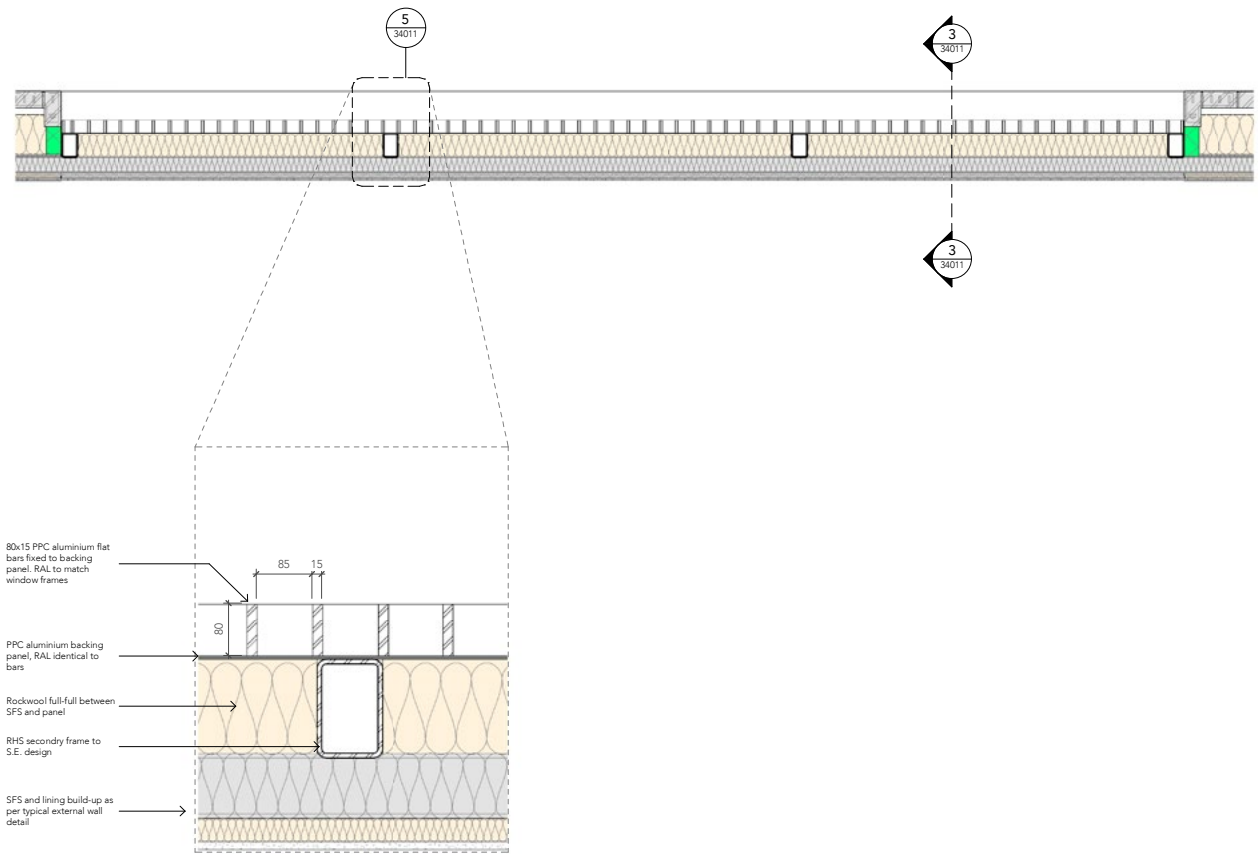
Note - Bespoke metalwork / Supplier to be confirmed

Ral 7016 (Anthracite)

Elevation showing the metalwork screen which adds architectural interest at ground level to the private external amenity space between Block B and the Townhouses.



East Elevation_Bike Store Fenestration
1 : 20



Buttress initial detailing for the metal slatwork



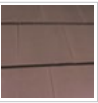
Precedent imagery showing PPC steelwork slatwork at the base of Murray Mills, within the Ancoats Conservation Area.

2.9 Concrete interlocking roof tiles

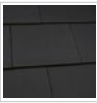
Marley Edgemere Duo in ‘Smooth Grey’

Edgemere – Concrete Interlocking Tile

Tile Design	Edgemere Concrete Interlocking Tile
Minimum Pitch	17.5° Headlap (100mm) 22.5° Headlap (75mm)
Maximum Pitch	90°
Size of Tile	420mm x 330m
Minimum Headlap (Max Gauge)	75mm (345mm) 100mm (320mm)
Tile Thickness	18mm (nominal)
Cover width	298mm (nominal)
Covering Capacity (net)	75mm Headlap – 9.7 tiles/m² 100mm Headlap – 10.5 tiles/m²
Weight of Tiling	75mm Gauge – 44kg/m² (0.43 kN/m²) 100mm gauge – 47.5kg/m² (0.47 kN/m²)
Quantity Per Pallet	Edgemere Tiles – 240
Battens Required	75mm gauge – 2.9 lin.m/m² 100mm gauge – 3.1 lin.m/m²
Recommended Batten Size	38mm x 25mm for rafters not exceeding 450mm centres 50mm x 25mm for rafters not exceeding 600mm centres
Underlay	Vapour Permeable (MA33150) Non Vapour Permeable (MA33145)
Tile Colours Available	Smooth Brown (S) (MA35552) Anthracite (S) (MA35580) Smooth Grey (S) (MA35528) Old English Dark Red (S) (MA35580) S – Smooth Finish



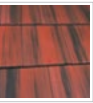
Smooth Brown
MA35552



Anthracite
MA35580



Smooth Grey
MA35528



Old English Dark
Red MA35580

Smooth Grey

Marley Ltd, Lichfield Road, Branston, Burton Upon Trent, DE14 3HD

Date: August 2021



Edgemere – Concrete Interlocking Tile

Ventilation

Ventilation

25mm Eaves/Low Level Ventilation (MA46351) Warm Roof
10mm Eaves/Low Level Ventilation (MA46350) Cold Roof
5mm Ridge Ventilation Ridgefast System Warm/Cold Roof
Ridge Vent Terminal (MA19800)
Edgemere Concrete Tile Vents (MA25900)
Edgemere Contour Tile Vent (MA46500)
Universal Tile Vent (MA3670)
Gas Vent Ridge Terminal (MA25600)
Gas Vent Ridge – For Condensing Boiler Only
Segmental (MA25400) Modern (MA25500)
Flexible Pipe (MA39091)
Universal HipFast System (MA53400)

Verge

Undercloak – Mortar Bedded

Fibre Cement Undercloak – 38mm - 50mm Overhang – With Verge Clips (MA30263)

Dry Verge

Edgemere Dry Verge LH (MA38100) RH (MA38200)
Edgemere Dry Verge Starter Kit (MA53830)
Edgemere Ridge End Cap (MA38400)
Segmental Ridge End Cap (MA39500)
Modern Ridge end cap (MA39400)
Segmental mono ridge end cap LH (MA42700) / RH (MA42800)
Modern mono ridge end cap LH (MA40800) / RH (MA40900)
Continuous Dry Verge (MA38501)

Eaves

Eaves

Universal 10mm Eaves vent system (MA46350)
Universal 25mm Eaves vent system (MA46351)
Eave clip and nail pack (MA30297)

Edgemere – Concrete Interlocking Tile

Abutment

Abutment

Step and Cover Flashing
Secret Gutter
FlexFast Lead Replacement Roll (MA42600)
Top Abutment Vent System – Low Level
Dry Soakers LH (MA30474), RH (MA30475)

Ridges

Ridge - Dry Fix

UNIVERSAL RidgeFast (MA53300)
Ventilated Dry Ridge System – multiple components required
Modern Ridge Tile (MA20900) / Segmental Ridge Tile (MA20600) / 90° angle ridge/hip tile (MA28100)
Modern stop end ridge tile (MA37400) / Segmental stop end ridge (MA19100) / 90° angle ridge stop end (MA47100)
Modern Ridge end cap (MA39400) / Segmental Ridge end cap (MA39500)

Ridge - Mortar Bedded

Modern Ridge Tile (MA20900) / Segmental Ridge Tile (MA20600) / Concrete Plain
Angle Ridge – pitch dependant
Modern stop end ridge (MA37400) / Segmental stop end ridge (MA19100)
Mortar Bedded Security Ridge Fixing Kit (MA54365)

Mono-Ridge – Mortar Bedded

Ventilated dry ridge system – multiple components required
Segmental mono ridge tile (MA22500)
Segmental mono stop end ridge LH (MA18900)
Segmental mono stop end ridge RH (MA19000)
Segmental mono ridge tile (MA22500) / Modern mono ridge tile (MA23000)
Segmental mono stop end tile LH (MA18900) / RH (MA19000)
Modern mono stop end tile LH (MA37500) / RH (MA37600)
Mechanical fixing via 2no screw holes to rear of tile

Buttress | Land to the west of Rodney Street | Wates Construction | Condition 11 - External Materiality

21

Buttress

Architects | Masterplanners | Heritage Consultants