

SAMPLE RECORD SHEET

Trade Package:	Tiling. Restaurant Area Lower Ground Floor.		
Sample No:	003		
Sample Type:	Poured Concrete Effect Resin Ardex Pandomo Dark Tone		
Photo:			
Signed off by:	Name:	Sample Signed: Yes/No	Date:
Comments			

BW Input	
Comments	As Sample Schedule and Specification.

ARDEX K 301

Fast Setting Resurfacing and Levelling Compound for Concrete

DESCRIPTION

ARDEX K 301 is a Fast Setting Resurfacing and Levelling Compound for Concrete. ARDEX K 301 is a grey powder consisting of special cements, graded aggregates and high quality synthetic resins. When mixed with water, a fluid mortar is produced which sets after approximately 1 hour and can normally be walked on after 2-3 hours at 20°C. ARDEX K 301 can be applied from 2mm to 20mm in a single application. The set and hardened ARDEX K 301 is usually ready to receive light rubber wheeled traffic after 48 hours at 20°C.

USE

ARDEX K 301 will smooth and level concrete surfaces such as balconies, patios, domestic driveways, garages, walkways and other concrete surfaces exposed to normal foot and rubber wheeled traffic. ARDEX K 301 can also be used for filling holes and resurfacing damaged floors, such as concrete or cement/sand screeds, as well as pre-smoothing concrete floors prior to the application of a suitable damp proof membrane, such as ARDEX DPM 1 C/1 CR.

NOTE: ARDEX K 301 is not recommended for heavy duty industrial floors, public highways or traffic with solid or metal wheels. ARDEX K 301 is suitable for permanently wet areas and may be used in swimming pools where it can be tiled onto directly. ARDEX K 301 is not recommended for areas of intensive abrasive use in wet areas. Do not apply ARDEX K 301 over asphalt or tarmacadam surfaces. The hardened ARDEX K 301 should be protected from spillages and materials which damage concrete surfaces. If required, the dried ARDEX K 301 can be painted.

SURFACE PREPARATION/PRIMING

All concrete surfaces should be mature i.e. at least 6 weeks old. The concrete surface must be hard, sound, thoroughly cleaned, free of all oil, grease, curing compounds and other barriers to adhesion. The substrate can be dry or moist. **ARDEX K 301 may be unsuitable for aged or frost damaged concrete subject to regular deflection from thermal cycling or mechanical loading.**

Use ARDEX DGR degreaser to remove oil, grease or similar contaminants and rinse well prior to mechanical preparation. All surfaces must be prepared as necessary to ensure good adhesion. The prepared surface must have the appearance of clean sound concrete with some exposed aggregate in the surface. There must be no traces of any dirt, previous treatments or surface contamination.

Sufficient and thorough mechanical preparation is essential for commercial areas, especially those intended for exposure to regular or intensive rubber wheeled traffic, or heavy loading. Vacuum clean the prepared surface to remove all dust and debris, and ideally wash the surface using high pressure water jet equipment. All cracks in new and old concrete can be repaired to inhibit cracking in the ARDEX K 301 with ARDEX EP 2000 (refer to the ARDEX EP 2000 datasheet).

Any structural or live joints, or cracks in the substrate must be carried through the ARDEX K 301 to the surface. Internal concrete and absorbent surfaces should be primed with

ARDEX P 51 primer diluted 1:7 with clean water, and applied with a brush or broom. Any puddles or surface water should be removed with a broom so that excess water is not incorporated in the mortar during application.

External areas, and those exposed to damp, should be primed with ARDEX P 4 ready mixed, rapid drying multi-purpose primer, roller applied directly from the bucket and allowed to dry.

In all areas subjected to regular rubber wheeled traffic or heavy loading, and on dense surfaces, ARDEX R 3 E Solvent Free Epoxy Primer should be used to prime, sand blinding the surface with ARDEX Fine Aggregate while still wet. The surface should be allowed to cure and excess sand removed before applying ARDEX K 301.

MIXING

In a clean mixing container add the powder to the required amount of clean water whilst stirring thoroughly until a lump free mortar is produced. The mix proportions by volume are approximately:- 5 parts ARDEX K 301 powder to 1 part clean water.

A 25kg bag requires 5¼ litres of water.

If gradient levelling has to be carried out, the water content must be reduced. To pump the mortar, use continuous pumps with a capacity of 20-40 litres of mortar per minute.

Do not use excess water as this will reduce the strength of the set and hardened mortar.

The use of an ARDEX mixing paddle with a 10mm chuck slow speed (600-1000 r.p.m.) electric drill makes light work of mixing.

ARDEX K 301 mortar should be applied within 30 minutes at 20°C. This time is extended at lower and reduced at higher temperatures.

APPLICATION

Pour the mixed ARDEX K 301 onto the prepared and primed substrate. The mixed mortar will flow out and self-smooth during the first 10 minutes of its 30 minute working time. Spread the mortar using a steel trowel or float. For larger areas its recommended to use a gauging tool with thickness height adjustment to spread the mortar. A long handled ARDEX smoothing trowel can be used to simplify the finishing operation.

The applied ARDEX K 301 surface can be left with a trowelled finish. Alternatively, to create a more non-slip finish, the water content should be reduced and then 'broom finished' once the initial set has occurred (approximately 40 minutes under normal conditions). Once set, The freshly applied ARDEX K 301 should be protected from adverse climatic conditions e.g. rapid drying rain, frost, etc., until hardened. Apply at temperatures above 5°C.

If a second layer of ARDEX K 301 is required, this should be applied after the first layer has fully hardened. The first layer should be machine sanded (paper 16 to 36), cleaned and primed with ARDEX P 51 primer diluted 1:1 with water for dry indoor use, and diluted 1:7 with water for external use or damp interior areas. The dilution rate of 1:7 should not be exceeded for external applications

THICKNESS

ARDEX K 301 can be applied neat from 2mm to 20mm thick.

NOTE: The thickness of combined layers should not exceed 20mm.

COVERAGE

Approximately 1.6kg ARDEX K 301 powder/m²/mm, i.e. approximately 3.0m² at 5mm thickness per 25kg bag.

PACKAGING

ARDEX K 301 is packed in paper sacks incorporating a polyethylene liner - net weight 25kg.

STORAGE AND SHELF LIFE

ARDEX K 301 contains a reducing agent to control the level of Chromium VI when mixed prior to use.

ARDEX K 301 must be stored in unopened packaging, clear of the ground in cool dry conditions and protected from excessive draught. If stored correctly, as detailed above, and used within 12 months of the date shown on the packaging, the activity of the reducing agent (added to control the level of soluble Chromium VI) will be maintained and this product will contain, when mixed with water, no more than 0.0002% (2ppm) soluble Chromium VI of the total dry weight of the cement content of this product. ARDEX K 301 must not be used after the end of the declared storage period.

PRECAUTIONS

ARDEX K 301 contains more than 20% Portland cement and, therefore, in line with current legislation, is classified as irritating to eyes and skin. For this reason the following precautions should be observed:-

- Avoid contact with skin and eyes
- In case of contact with the eyes, rinse immediately with plenty of water and seek medical advice
- Wear suitable gloves and keep the product out of the reach of children.
- Avoid generation of airborne dust during mixing.

For further information consult the relevant health and safety data sheet.

TECHNICAL DATA

ARDEX K 301 – Cementitious screed material of use internally and externally
EN 13813: CT-C30-F7-A22

Bulk density of powder approx. 1.37kg/litre

Weight of fresh mortar approx. 1.94kg/litre

Initial Set (Vicat) approx. 40 minutes

Final Set (Vicat) approx. 2 hours

Compressive Strength

After 7 days 20.0 N/mm²

After 28 days 28.0 N/mm²

Tensile Bending Strength

After 28 days 6.5 N/mm²

Overcoat time for industrial coatings

Thickness of ARDEX K301 Time

Up to 5mm 2 days

Up to 10mm 5 days

Up to 20mm 7 days

NOTE: The information supplied in our literature or given by our employees is based upon extensive experience and, together with that supplied by our agents or distributors, is given in good faith in order to help you. Our Company policy is one of continuous Research and Development; we therefore reserve the right to update this information at any time without prior notice. We also guarantee the consistent high quality of our products; however, as we have no control over site conditions or the execution of the work, we accept no liability for any loss or damage which may arise as a result thereof.

Country specific recommendations, depending on local standards, codes of practice, building regulations or industry guidelines, may affect specific installation recommendations.

TECHNICAL ADVICE HELPLINE:

01440 714939

ARDEX online: www.ardex.co.uk

FLOOR FINISH LEGEND:

- F0 - ARDEX EXTEND® GRADE SMOOTHING COMPOUND
- F1 - ENTRANCE MATWELL
- F2 - POURED CONCRETE EFFECT RESIN
- F3 - POURED CONCRETE EFFECT RESIN
- F4 - TIMBER PLANKS
- F5 - RECLAIMED KLN DRIED RAILWAY SLEEPERS
- F6 - DECORATIVE FEATURE CERAMIC FLOOR TILE
- F7 - PORCELAIN TILE LAND CIEVRON
- F8 - DECORATIVE CERAMIC TILE
- F9 - DECORATIVE CERAMIC TILE
- F10 - DECORATIVE CERAMIC TILE
- F11 - CERAMIC TILE
- F12 - CERAMIC TILE
- F14 - CARPET TILE - STANDARD
- F15 - CARPET TILE - CLERKENWELL
- F16 - CARPET TILE - CLERKENWELL IN BLUE COLOUR
- F17 - CARPET TILE - CLERKENWELL IN GREEN COLOUR
- F18 - CARPET TILE - CLERKENWELL PATTERNED CARPET TILE
- F19 - VINYL FLOORING ANTI-STATIC
- F20 - VINYL FLOORING BY ALTHO LTD
- F21 - VINYL FLOORING BY ALTHO LTD
- F22 - EPOXY BASED NON SLIP FLOOR PAINT
- F23 - CONCRETE EFFECT TILE
- F24 - RIGID INSULATION LAYERS SCREED LAID TO FALL TO PROVIDE RAMP
- F25 - EXTERNAL CONCRETE TO MATCH INTERNAL
- F26 - TIMBER SPRUNG FLOOR

FLOOR FINISH TRIM KEY:

- EDGE OF TILED FLOOR: 18mm DEEP STAINLESS STEEL ANGLE TRIM WITH 2.4mm VISIBLE EDGE. REFER TO NBS SPECIFICATION CLAUSE P20173 FOR DETAIL.
- EDGE OF VINYL FLOOR: 18mm DEEP STAINLESS STEEL ANGLE TRIM WITH 2.4mm VISIBLE EDGE. REFER TO NBS SPECIFICATION CLAUSE P20176 FOR DETAIL.
- EDGE OF VINYL THRESHOLDS: 3mm DEEP BRUSHED ALUMINUM ANGLE TRIM WITH 3mm VISIBLE EDGE. REFER TO NBS SPECIFICATION CLAUSE P20171 FOR DETAIL.
- EDGE OF CARPET TILE: 8mm DEEP BRUSHED ALUMINUM ANGLE TRIM WITH 3mm VISIBLE EDGE. REFER TO NBS SPECIFICATION CLAUSE P20172 FOR DETAIL.
- ACOUSTIC THRESHOLD: 25mm WIDE SATIN STAINLESS STEEL TRIM INSTALLED AT DOOR THRESHOLDS. SINGLE LEG FOR INSTALLATION BETWEEN HARD AND CARPET FINISHES. REFER TO NBS SPECIFICATION CLAUSE P20174 FOR DETAIL.
- ACOUSTIC THRESHOLD: 25mm WIDE SATIN STAINLESS STEEL TRIM INSTALLED AT DOOR THRESHOLDS. SINGLE LEG FOR INSTALLATION BETWEEN CARPETED FINISHES. REFER TO NBS SPECIFICATION CLAUSE P20175 FOR DETAIL.
- ACOUSTIC THRESHOLD: 25mm WIDE SATIN STAINLESS STEEL TRIM INSTALLED AT DOOR THRESHOLDS. SINGLE LEG FOR INSTALLATION BETWEEN CARPETED FINISHES. REFER TO NBS SPECIFICATION CLAUSE P20177 FOR DETAIL.
- SQUARE MANHOLE COVER FOR 450MM CIRCULAR CHAMBER COVER TO RECEIVE THE SAME FLOOR FINISH AS IN ADJACENT AREA. TO FINISH FLUSH WITH FFL AND WITH BRUSHED STAINLESS STEEL TRIM TO PERIMETER.
- SEALED AND LOCKING ACCESS COVER TO STRUCTURAL ENGINEERS SPECIFICATION. COVER TO RECEIVE THE SAME FLOOR FINISH AS IN ADJACENT AREAS. TO FINISH FLUSH WITH FFL AND WITH BRUSHED STAINLESS STEEL TRIM TO PERIMETER.

DRAWING TO BE READ IN CONJUNCTION WITH MS 238, MS 230, MS 231, MS 232, AND WITH TYPICAL FLOOR DETAILS DRAWINGS MS 408, MS 409, MS 470 & MS 471

Rev	Date	Revised	By	Checked
1	20/01/17	Issued for construction	MS	LS
2	20/01/17	Issued for construction	MS	LS
3	20/01/17	Issued for construction	MS	LS
4	20/01/17	Issued for construction	MS	LS
5	20/01/17	Issued for construction	MS	LS
6	20/01/17	Issued for construction	MS	LS
7	20/01/17	Issued for construction	MS	LS
8	20/01/17	Issued for construction	MS	LS
9	20/01/17	Issued for construction	MS	LS
10	20/01/17	Issued for construction	MS	LS
11	20/01/17	Issued for construction	MS	LS
12	20/01/17	Issued for construction	MS	LS
13	20/01/17	Issued for construction	MS	LS
14	20/01/17	Issued for construction	MS	LS
15	20/01/17	Issued for construction	MS	LS

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FOR CONSTRUCTION
AD 66
PRIMARK
UK HEAD OFFICE REFURBISHMENT
READING

Drawn by
FLOOR FINISH PLAN
GROUND FLOOR

Date: 01/17
Job no.: 19-45
Drawing: 1/10
Rev: 15

Scale: 1:200
Drawing: 1/1
Created: 1/1

Do not scale from this drawing. All dimensions to be checked on site. Any discrepancy must be reported to the designer immediately. © MoreySmith

MS 240 REV K



SAMPLE RECORD SHEET

Trade Package:	Matting To Entrance		
Sample No:	243		
Sample Type:	Pedimat 11mm Slate		
Photo:			
Signed off by:	Name:	Sample Signed: Yes/No	Date:
Comments			

BW Input	
Comments	Reduced thickness and change of specification as requested by Morey Smith. Sample Sheet 001 superseded by this sample sheet 24 th May 2017

C/S PEDIMAT®

Pedimat® is the perfect entrance matting solution for buildings in moderate use such as offices, shops, hotels, banks and building societies.

C/S Pedimat® can be recessed or surface mounted, either in a ramped frame or to butt level with a surrounding carpet. Carpet, vinyl or abrasive tread inserts can be specified individually or in combination to create a bespoke design.

C/S PEDIMAT WITH CARPET INSERTS



PRODUCT FEATURES

- Recess or surface mounted options
- Rolls up for easy matwell cleaning
- Closed spline option allows in situ cleaning along with very high dirt containment
- Open spline option allows dirt to fall into the matwell, the mat can then be rolled up for matwell cleaning
- Field changeable inserts without the use of specialist tools for low lifecycle costs
- C/S Pedijet logo system option for interior grade carpet tread applications (see p25)
- Wide range of tread and colour options (see p22-23)

EXAMPLE SPECIFICATION (NBS)

N10 GENERAL FIXTURES/FURNISHINGS/EQUIPMENT 300 ENTRANCE MATTING

Manufacturer:	Construction Specialties (UK) Limited, 1010 Westcott Venture Park, Westcott, Bucks HP18 0XB Tel: +44 (0)1296 652800 Fax: +44 (0)1296 652888
Product reference:	C/S Pedimat 11mm deep, complete with 13mm frame for recess mounting
Finish:	Aluminium profiles: clear anodised, aluminium frames: mill finish
Tread type:	Interior grade carpet inserts
Tread colour:	Sandstone 0205
Spline:	Closed, Black
Endfiller colour:	Black
Matwell size:	5000mm wide x 5600mm in traffic direction
Mat size:	To suit matwell

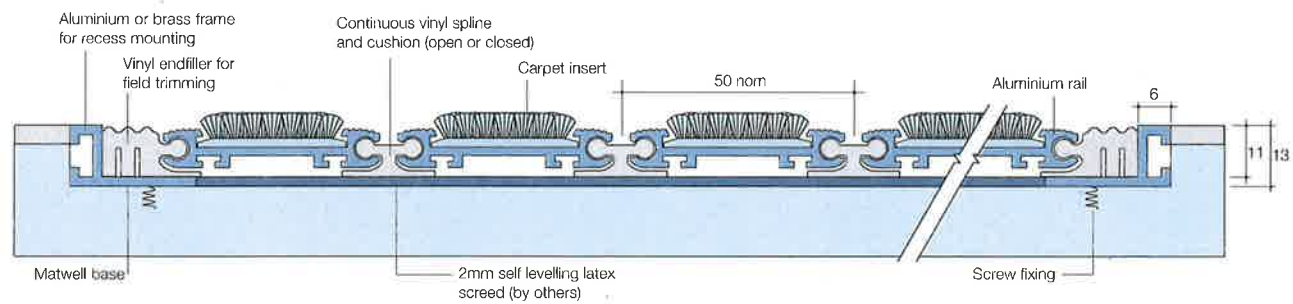
RAIL FINISH OPTIONS

	Clear anodised as standard
	Black anodised
	Bronze anodised
	Gold anodised

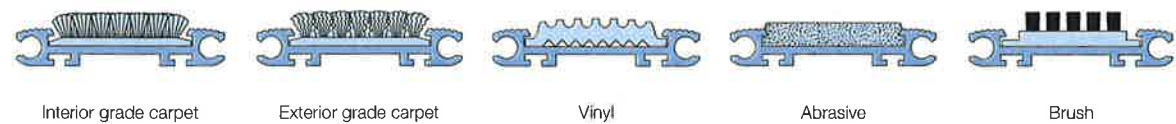


LEE HOUSE, MANCHESTER

SECTIONAL DETAIL

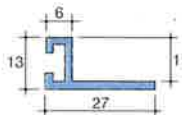


TREAD OPTIONS



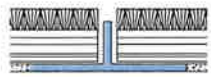
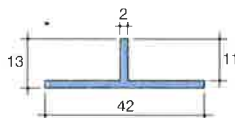
FRAME OPTIONS

13MM FRAME FOR RECESS MOUNTING



Materials:
Aluminium in mill finish,
black, bronze or gold
anodised, or brass

13MM T-FRAME FOR DIVIDING LARGE SECTIONS OF MAT



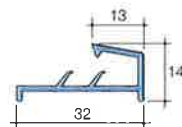
Materials:
Aluminium in mill finish,
black, bronze or gold
anodised

11MM RAMPED FRAME FOR SURFACE MOUNTING



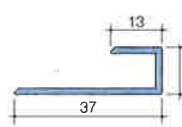
Materials:
Aluminium in mill finish,
black, bronze, gold or
clear anodised

CARPET EDGE GRIP FOR ABUTTING CARPET FLOORING



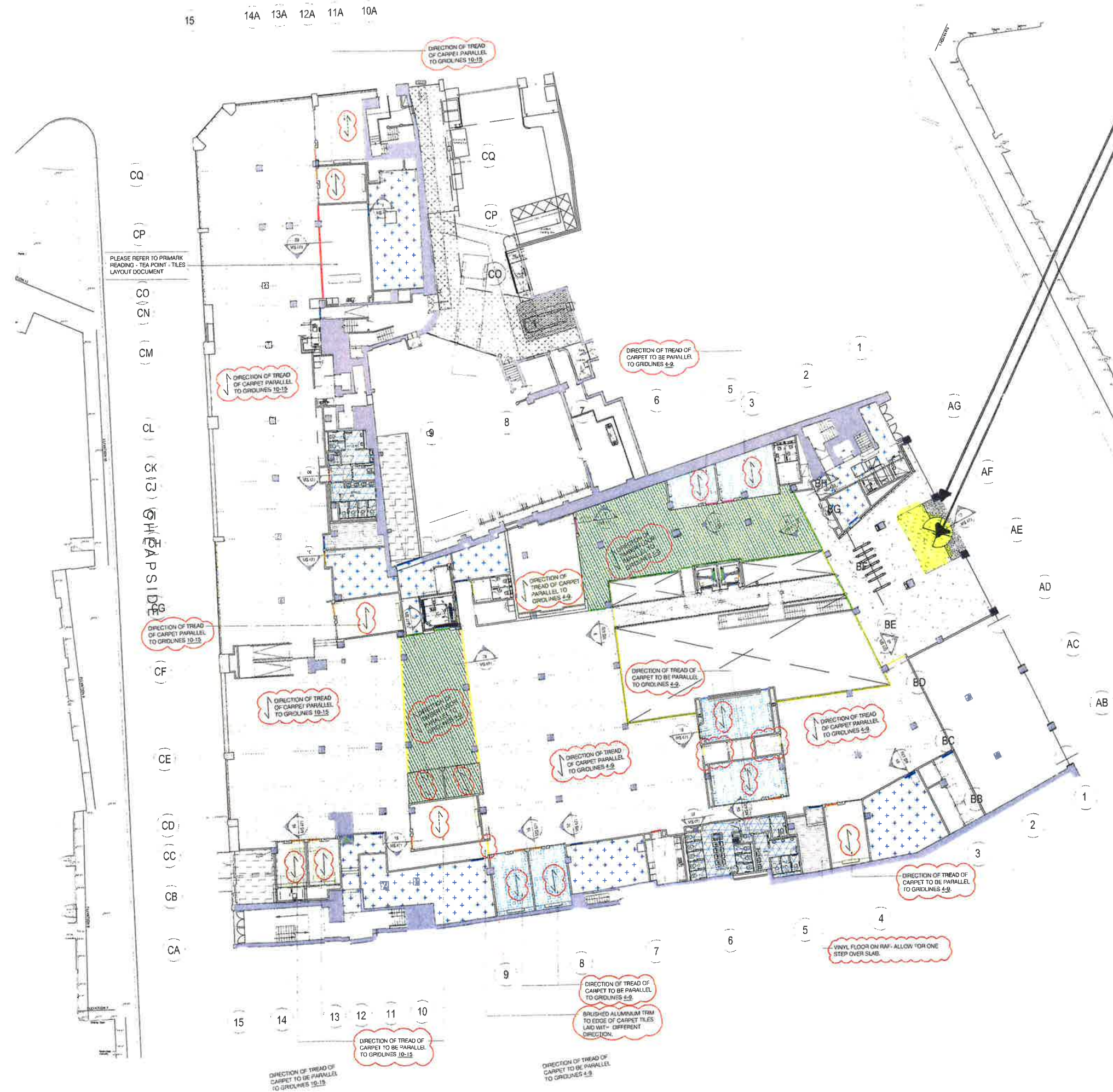
Materials: Aluminium in mill finish, black, bronze or gold anodised

CARPET EDGE TRIM FOR ABUTTING CARPET FLOORING



Materials: Aluminium in mill finish, black, bronze or gold anodised

Note: Illustrations not to scale



SAMPLE RECORD SHEET

Trade Package:	Balustrades & Handrails		
Sample No:	071		
Sample Type:	Cannon Glass CGS-001 12MM Low iron toughened glass including dorma 100mm satin stainless steel door rail		
Photo:	See Attached		
Signed off by:	Name:	Sample Signed: Yes/No	Date:
Comments			

BW Input	
Comments	

071



Design + Install

9 Mulberry Court, Bourne Industrial Estate, Crayford, Kent, DA1 4BF
 Tel: 01322 522 382 Fax: 01322 559 868
 Email: Sales@CannonGlass.com

Job No: 14863

Ref No: SA-001

Project Title: Primark,
Reading

Submittal review:

Contractor: BW

A

B

C

Date: 05/12/2016

Signature:

Issued By: RS

Cannon Ref No:

Title/ Description:

Issue Date:

Approval By:

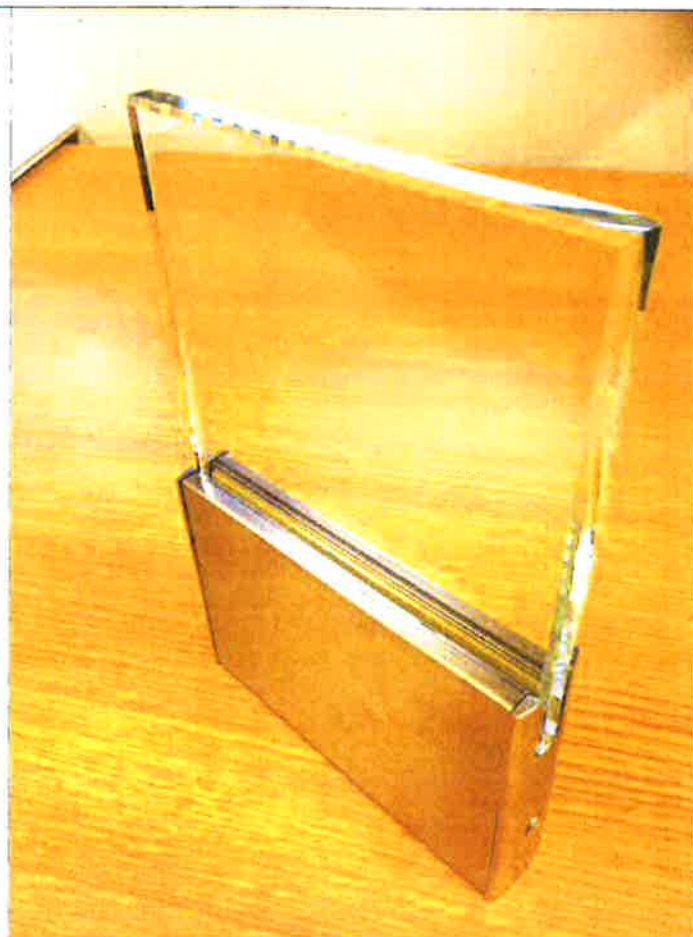
CGS-001

12mm low iron toughened glass including Dorma
 100mm satin stainless steel door rail proposed for the
 ground floor main entrance pass doors

05/12/2016

05/01/2017

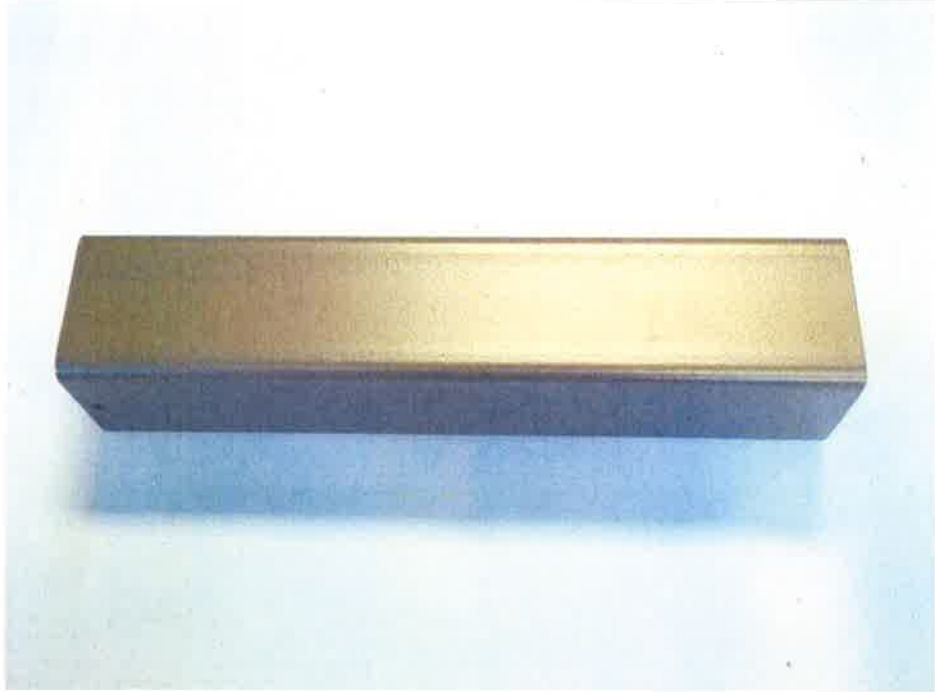
Photos of sample:



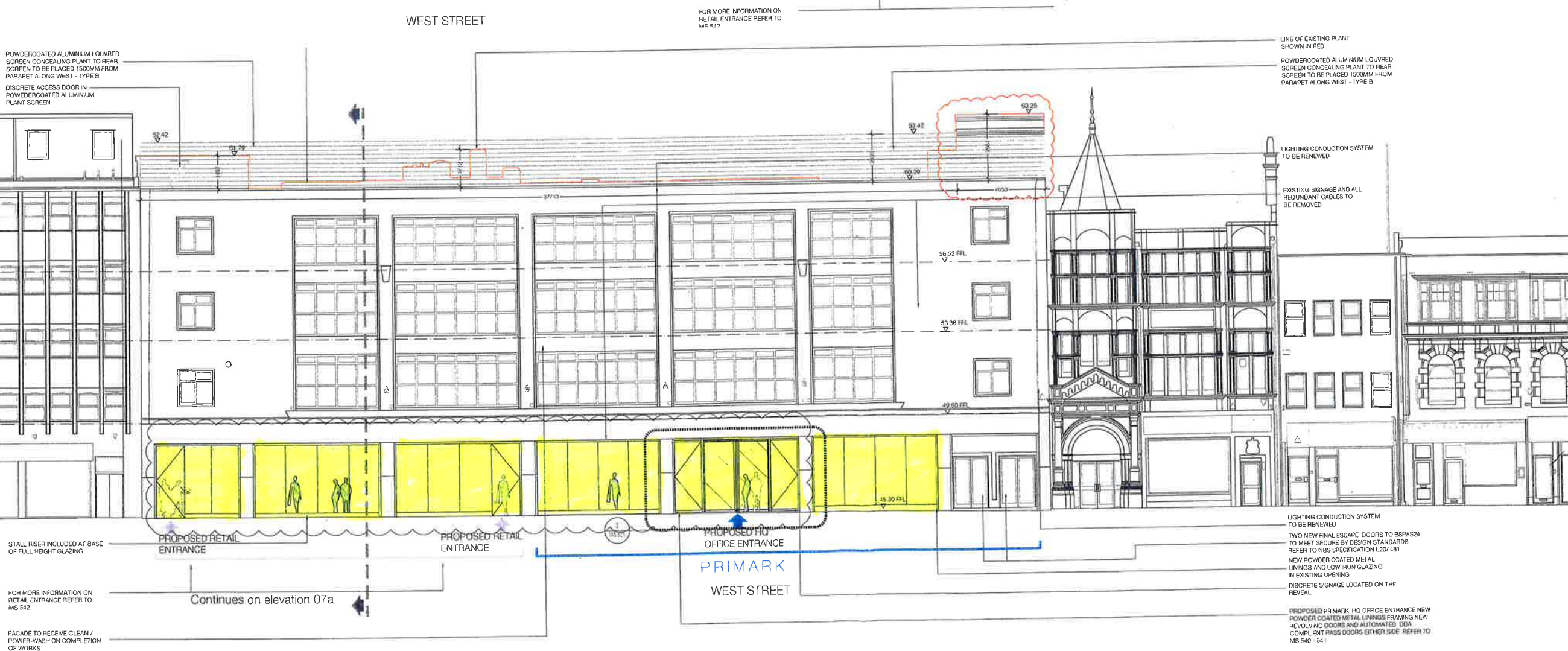
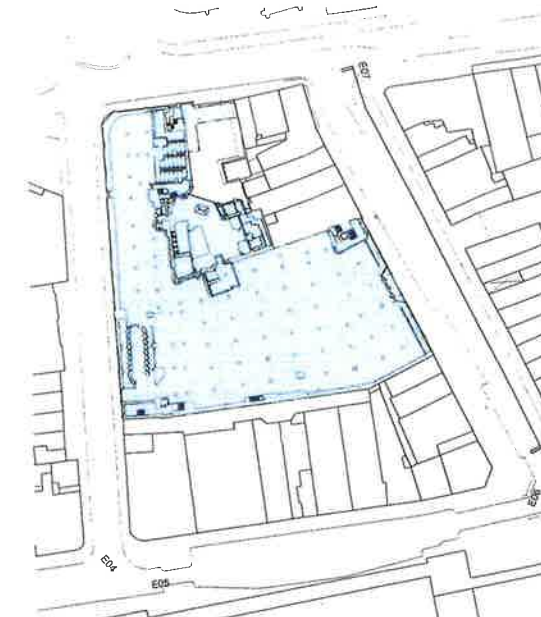
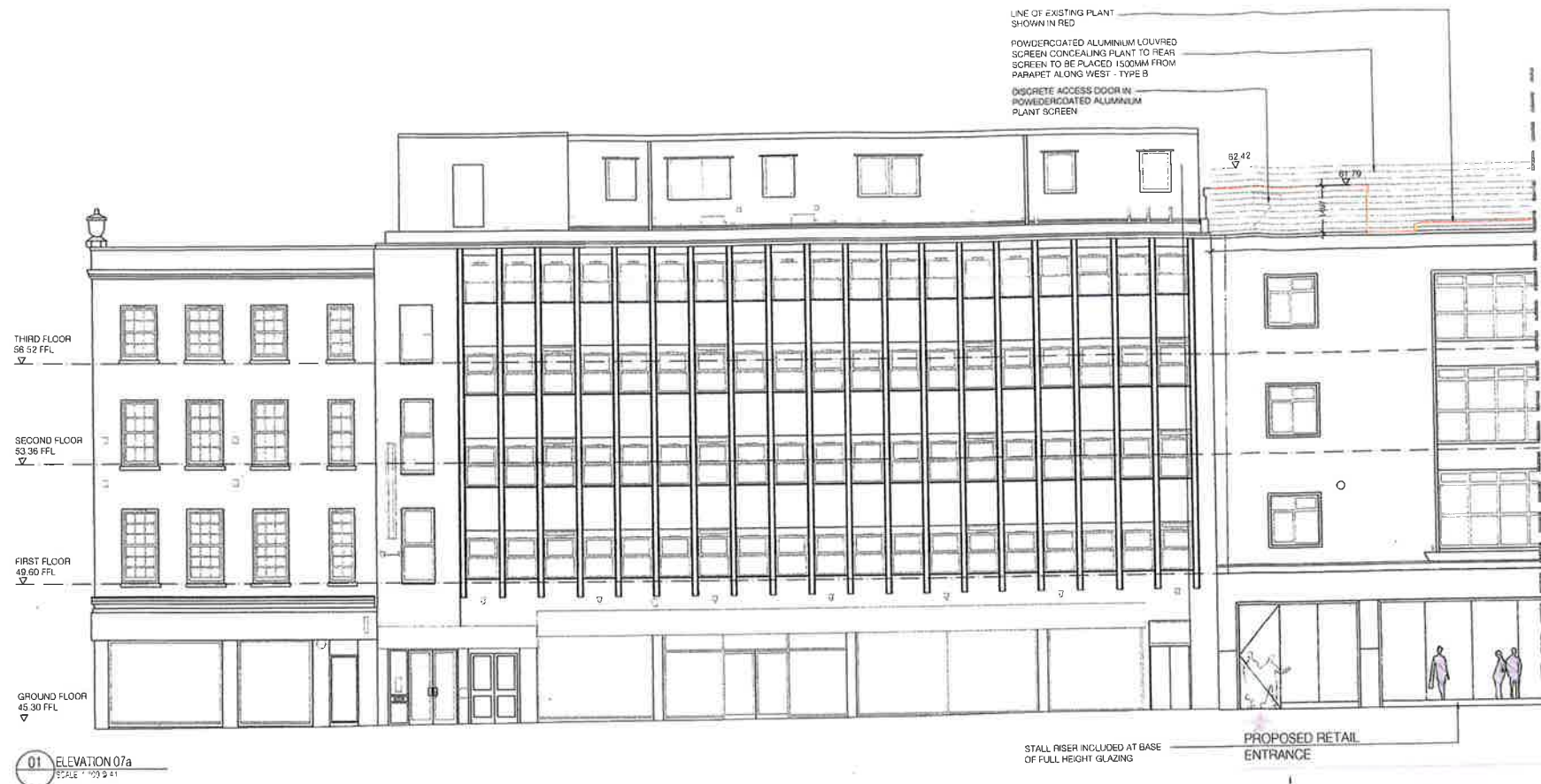
Notes/ Comments:

Please can you sign sample sheet when received and return via email with your appropriate submittal review either status A, B or C.

SAMPLE RECORD SHEET

Trade Package:	Shop Fronts and Glazed Entrance		
Sample No:	238		
Sample Type:	Section of Powder Coated Box Section		
Photo:			
Signed off by:	Name:	Sample Signed: Yes/No	Date:
Comments			

BW Input	
Comments	



ITEM	QUANTITY	UNIT	PRICE
1	1	NO	100
2	1	NO	100
3	1	NO	100
4	1	NO	100
5	1	NO	100
6	1	NO	100
7	1	NO	100
8	1	NO	100
9	1	NO	100
10	1	NO	100
11	1	NO	100
12	1	NO	100
13	1	NO	100
14	1	NO	100
15	1	NO	100
16	1	NO	100
17	1	NO	100
18	1	NO	100
19	1	NO	100
20	1	NO	100

**eySmith
MoreySmith
nith**

24 Kensington Road
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FOR CONTRACT

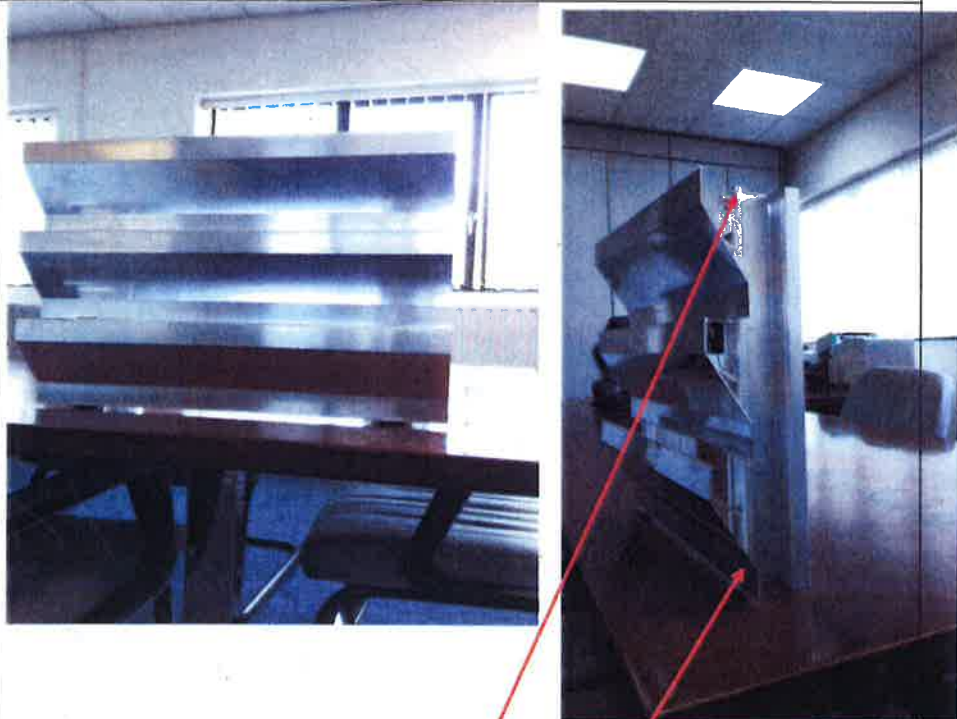
**PRIMARK
UK HEAD OFFICE REFURBISHMENT
READING**

**PROPOSED STREET ELEVATIONS
WEST STREET
ELEVATIONS 07a AND 07b**

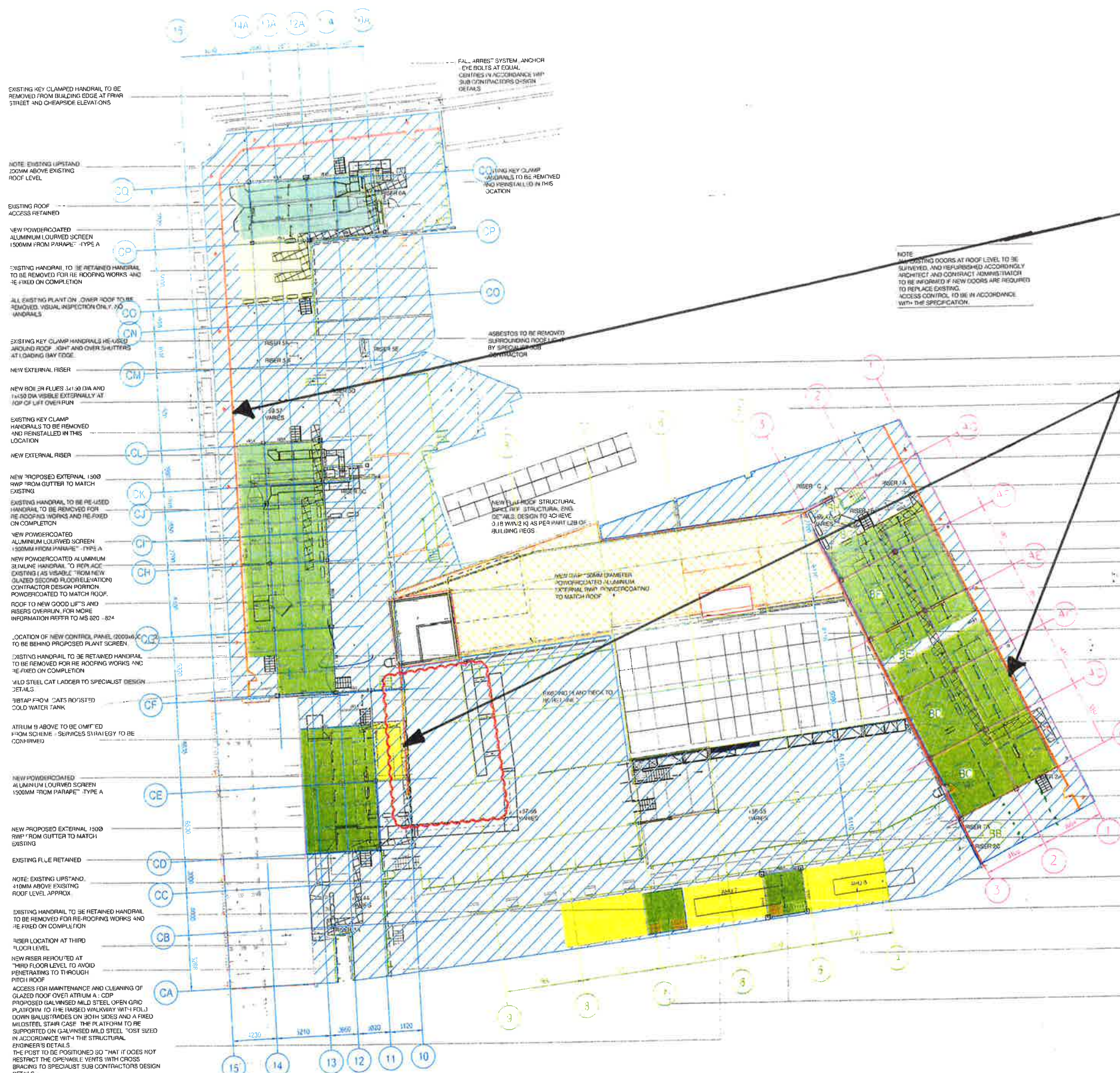
Issue: 01/2019 Date: 14/08/2019 Drawing: 01/01/2019

Drawing not to be used for any other purpose
All dimensions to be checked on site and any changes
must be reported to the designer immediately. - MoreySmith

SAMPLE RECORD SHEET

Trade Package:	Plant Louvre Screening (Levolux XL Screening System)		
Sample No:	233		
Sample Type:	Typical Screening Blade		
Photo:	 TOP of Mullion Correct Orientation of Blades for Max screening		
zSigned off by:	Name:	Sample Signed: Yes/No	Date:
Comments			

BW Input	
Comments	



LEGEND:

RISER LOCATIONS

PROPOSED PLANT SCREEN

EXISTING KEY - CLAMP BARRIERS TO BE RETAINED AND REUSED

EXISTING PLANT DECK TO BE RETAINED ALL PLANT TO BE CONCEALED BEHIND HEIGHT OF SCREENS

EXTENT OF PROPOSED PLANT DECK - CONNECTIONS TO COLUMN HEADS REQUIRED AS SE DETAILS

NOTE: M&E TO PREPARE ROUTES MAINTENANCE CONFIRM STEP UP AND STEP DOWNS REQUIRED FROM PLANT PLATFORMS

REMEDIAL WORKS LEGEND:

AREA OF EXISTING ROOF TO BE CLEANED OF DEBRIS, EXISTING BLUSTERS AND TRAPPED WATER TO BE REMOVED. PRIME ROOF AND LAY TORCH ON PARALON TOPS UNDERLAY PARALON ARDS / CAP SHEET OVER EXISTING. INCLUDE ALL PERIMETER DETAILING, FLASHING TO PLANT UPSTANDS DRESSINGS TO RAINWATER GOODS AND NEW ATRIUMS

AREA OF ROOF TO FIRST FLOOR TO RECEIVE RECOVERY BOARD BEFORE LAYING TORCH ON PARALON TOPS. UNDERLAY PARALON ARDS / CAP SHEET OVER AS OTHER AREAS INCLUDE PERIMETER DETAILING FLASHING TO UPSTANDS DRESSING TO RAINWATER GOODS AND NEW ATRIUMS

NEW LIFT OVER RUNS CONSTRUCTED OF PARALON TOPS, UNDERLAY AND PARALON CAP SHEET ON BOARD ON INSULATION TO ACHIEVE A U-VALUE OF 0.18W/(m2K) AS PER PART L2B

EXISTING PITCH ROOF TO BE CHECKED FOR WATER INGRESS AND SLIPPED SLATES ANY LOOSE SLATES / TO BE REFIXED AFTER INSERTION OF ASPHALT ADJACENT

NB: PROVISIONAL SUM SHOULD BE INCLUDED FOR PLASTER BLISTERING REPAIRS LOCALLY ABOVE PARAPETS. ALL EXISTING PLANT EQUIPMENT TO BE REMOVED AND REPLACED WITH NEW LAYOUT AS ILLUSTRATED.

WORKS TO BE PHASED.

EXISTING ROOF IS ASSUMED TO HAVE INSULATION BENEATH ASPHALT.

IT IS NOT INTENDED TO UPGRADE INSULATION THE PURPOSE IS TO IMPROVE THE WATER PROOFING, ONLY VALIDATION CHECKS RECOMMENDED.

NEW 2 LAYER ASPHALT APPROACH TO ACHIEVE 25 YEAR ROOF WARRANTY.

EXISTING ROOF ACCESS TO BE RETAINED

SPACING OF EXISTING BEAMS AND TIMBER TRUSSES REQUIRED TO CONFIRM REQUIRED SUPPORT FOR NEW PLANT

EDGE PROTECTION AS EXISTING AT LOWER LEVEL

FALL ARREST SYSTEM, ANCHOR EYE BOLTS AT EQUAL CENTRES IN ACCORDANCE WITH SUB CONTRACTORS DESIGN DETAILS

NEW EXTERNAL RISER

EXISTING ROOF ACCESS (DOOR AND STAIR) RETAINED NEW HOOP LADDER INTERNALLY PROVIDING FIRE ESCAPE FROM ROOF-ALL CONTRACTOR DESIGN POTATION

FINAL PLANT PLATFORM CONNECTION DETAIL TO BE APPROVED BY MS, NEW POWERCOATED ALUMINUM LOUVRE - TYPE B

NEW POWERCOATED ALUMINUM GUTTER AT SECOND FLOOR LEVEL

NEW RWP 150MM DIAMETER POWDERCOATED ALUMINUM EXTERNAL RWP, POWDERCOATING TO MATCH ROOF

NEW POWERCOATED ALUMINUM LOUVRE SCREEN 1500MM BACK FROM PARAPET - TYPE A

LIFT OVER RUN TO NEW SCENIC LIFTS

ATRIUM A - DROP DOWN VENTS (1) FACILITATE ATRIUM EXTRACT (SHOWN DASHED)

ATRIUM A - NEW DOUBLE GLAZED STRUCTURAL GLAZING WITH LOWIRON GLASS SORT LOW E COATING TO SURFACE OF GLAZING GLASS TO GLASS SILICONE JOINTS ON RESPONSE SUPPORTING CARRIERS GLASS TO BE GLAZED AS CLASS 2 FOR MAINTENANCE ACCESS PURPOSE ONLY 10% SMOKE EXTRACT REQUIRED -OH MORE INFORMATION REFER TO SECTION MS 800 & MS 801

RISERS TO DISCREETLY FLANK EXISTING ELEVATIONS AVOIDING EXISTING WINDOWS LOCATIONS, REFER TO SECTION MS 764

NEW POWERCOATED LOUVRE ALUMINUM SCREEN TYPE B CONCEALING PLANT BEHIND ACCESS DOOR AT TOP OF HOOP LADDER, FOR MORE INFORMATION REFER TO MS 371

WHISTLE FROM CATS BOOSTED COLD WATER TANK

DISCRETE ACCESS DOOR IN POWDERCOATED ALUMINUM PLANT SCREEN

EXISTING HOOP LADDER TO BE RELOCATED TO ACCOMMODATE NEW ATRIUM INSERTION

NEW PLANT DECK STRUCTURAL ENG. DETAILS DESIGN TO ACHIEVE 0.18 W/M2 K) AS PER PART L2B OF BUILDING REGS.

NEW EXTERNAL RISERS

RELOCATION OF AHU 7AH OVER PLANT DECKS AT OXFORD STREET ALLEY AS PER M&E SUBCONTRACTORS INFORMATION PLEASE REFER TO DRAWING MS-153 & 154 FOR L&A DRAWINGS

NOTE: MECHANICAL SUBCONTRACTOR TO CONFIRM SPECIFICATION OF AHU 5 PRIOR TO PLACEMENT OF ORDER AND AGREE FINAL MOUNTING DETAIL AND SETTING OUT POSITION. AHU MANUFACTURER TO ADVISE IF THE REMAINING OVERHANG OF AHU 8 FROM THE EXISTING ROOF IS ACCEPTABLE.

NEW PLANT DECK EXTENSIONS / RAILS BETWEEN EXISTING PLANT DECKS ALONG OXFORD STREET ALLEY TO AVOID OVERLOAD TO EXISTING ROOF STRUCTURE. PLEASE REFER TO TYPICAL DETAIL ON RAINBOLL DRAWINGS S-10409 FOR MORE DETAILED INFORMATION

NOTE: EXISTING DOORS AT ROOF LEVEL TO BE SURVIVED, AND REPAIRS REQUIRED ACCORDINGLY ARCHITECT AND CONTRACT ADMINISTRATION TO BE INFORMED IF NEW DOORS ARE REQUIRED TO REPLACE EXISTING ACCESS CONTROL TO BE IN ACCORDANCE WITH THE SPECIFICATION.

ASBESTOS TO BE REMOVED SURROUNDING ROOF LIFT BY SPECIALIST ROOF CONSTRUCTION

NEW WALKWAY STRUCTURAL ENG. DETAILS DESIGN TO ACHIEVE 0.18 W/M2 K) AS PER PART L2B OF BUILDING REGS

NEW 150MM DIAMETER POWDERCOATED ALUMINUM EXTERNAL RWP, POWDERCOATING TO MATCH ROOF

EXISTING HANDRAIL TO BE REMOVED FOR RE-ROOFING WORKS AND RE-FIXED ON COMPLETION

NEW POWERCOATED ALUMINUM LOUVRE SCREEN 1500MM FROM PARAPET - TYPE A

NEW PROPOSED EXTERNAL 1500 RWP FROM GUTTER TO MATCH EXISTING

EXISTING FLE RETAINED

NOTE: EXISTING UPSTAND, 110MM ABOVE EXISTING ROOF LEVEL APPROX

EXISTING HANDRAIL TO BE RETAINED HANDRAIL TO BE REMOVED FOR RE-ROOFING WORKS AND RE-FIXED ON COMPLETION

RISER LOCATION AT THIRD FLOOR LEVEL

NEW RISER REPOSITIONED AT THIRD FLOOR LEVEL TO AVOID PENETRATING THROUGH PITCH ROOF

ACCESS FOR MAINTENANCE AND CLEANING OF GLAZED ROOF OVER ATRIUM A: CDP

PROPOSED GALVANIZED MILD STEEL OPEN GRID PLATFORM TO THE BASED WALKWAY WITH FOLD DOWN BALUSTRADES ON BOTH SIDES AND A FIXED MILDSTEEL STAIR CASE. THE PLATFORM TO BE SUPPORTED ON GALVANIZED MILD STEEL, "OST" SIZED IN ACCORDANCE WITH THE STRUCTURAL ENGINEER'S DETAILS

THE POST TO BE POSITIONED SO THAT IT DOES NOT RESTRICT THE OPENABLE VENTS WITH CROSS BRACING TO SPECIALIST SUB CONTRACTORS DESIGN DETAILS.

THE NEW WALKWAY TO BE DESIGNED TO ACCOMMODATE A NOMINAL ACCESS PEDESTRIAN LINE LOAD OF 3.75 KN/M2 AND INCORPORATE ANCHORS / STE BOLTS TO BE WICK A SAFETY HARNES / FALL ARREST SYSTEM. PLEASE REFER TO SPECIALISTS DESIGN DETAILS AND NBS SPECIFICATION (T80)

ALL STAIRS, STEPS AND CAT HOOP LADDERS TO BE DESIGNED IN ACCORDANCE WITH BS 2037 AND BS EN 131

THE NEW WALKWAY MUST BE ABLE TO FACILITATE ACCESS FOR CLEANING THE GLAZED ATRIUM WITH AN EXTENDABLE WATER FED POLE AND ON A PRESSURE WASH SYSTEM. REFER TO MS 301 FOR MORE INFORMATION

ITEM	QUANTITY	UNIT	DESCRIPTION
1	1000	M2	EXISTING ROOF DECK
2	1000	M2	EXISTING ROOF DECK
3	1000	M2	EXISTING ROOF DECK
4	1000	M2	EXISTING ROOF DECK
5	1000	M2	EXISTING ROOF DECK
6	1000	M2	EXISTING ROOF DECK
7	1000	M2	EXISTING ROOF DECK
8	1000	M2	EXISTING ROOF DECK
9	1000	M2	EXISTING ROOF DECK
10	1000	M2	EXISTING ROOF DECK
11	1000	M2	EXISTING ROOF DECK
12	1000	M2	EXISTING ROOF DECK
13	1000	M2	EXISTING ROOF DECK
14	1000	M2	EXISTING ROOF DECK
15	1000	M2	EXISTING ROOF DECK

eySmith
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nith

FOR PLANNING
PRIMARK
UK HEAD OFFICE REFURBISHMENT
READING

GENERAL ARRANGEMENT
ROOF

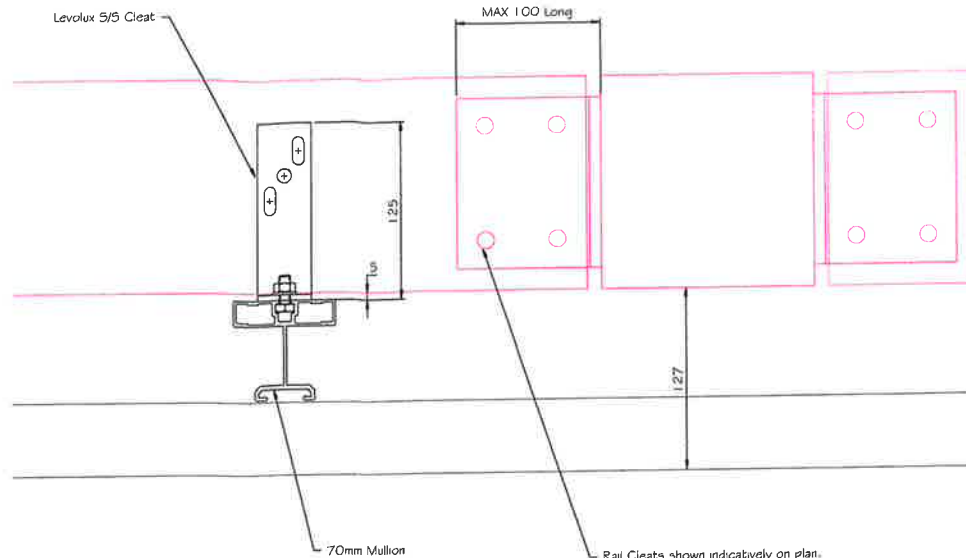
Scale: 1:200
Drawing not to be scaled. (except for Planning Purposes)
All dimensions to be checked on site and discrepancies
to be reported to the designer immediately. MoreySmith

- Notes:**
1. STEEL SET-OUT DIMENSIONS AND LEVELS ARE NOT THE RESPONSIBILITY OF LEVOLUX.
 2. LEVOLUX TO BE NOTIFIED TYPE OF STEEL POST, HORIZONTAL RAILS AND CLEATS APPROVED FOR THE PACKAGE.
 3. LEVOLUX TO BE NOTIFIED ANY CHANGES TO THE POST SET-OUT IF REQUIRED.

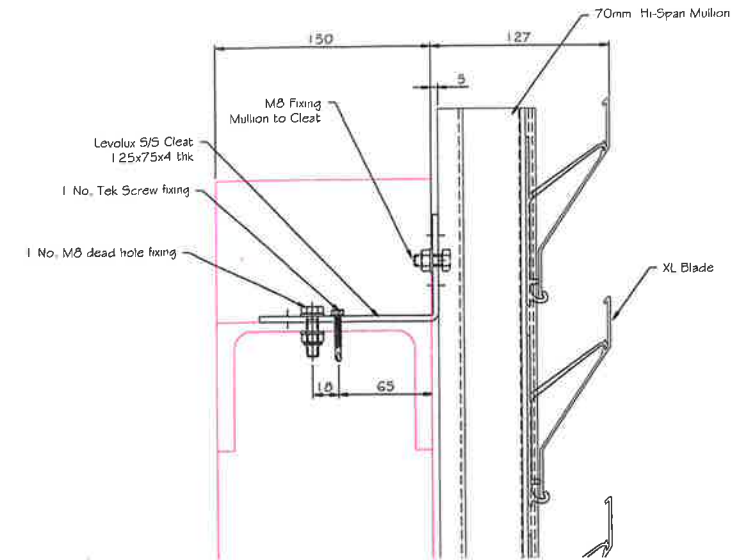
WEIGHT OF BLADE: 0.791 kg/m
WEIGHT OF MULLION: 2.314kg/m

Note:
ALL SETTING OUT BASED ON DRAWINGS WITH DIMENSIONS FROM GRIDLINES; PLEASE REFER TO PLAN. LEVOLUX NOT RESPONSIBLE FOR STEELWORK FIXING TO SUBSTRATE.

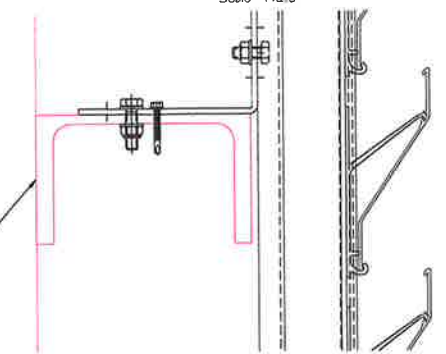
- General Notes:**
1. See Drawing 7464-LEV-XL-RF-5P-A-0001 for detail specifications.
 2. Gridlines obtained from drawing MS20R, please notify Levolve if any changes.
 3. All Vertical Posts and Horizontal Rails designed, engineered and supplied by others.
 4. All Mastic pointing and Sealing by Others.



TYPICAL PLAN DETAIL
Scale: 1:2.5



TYPICAL TOP DETAIL
Scale: 1:2.5

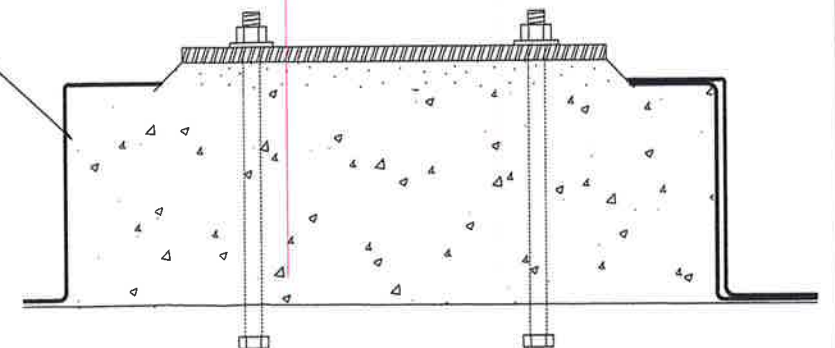


TYPICAL MID DETAIL
Scale: 1:2.5

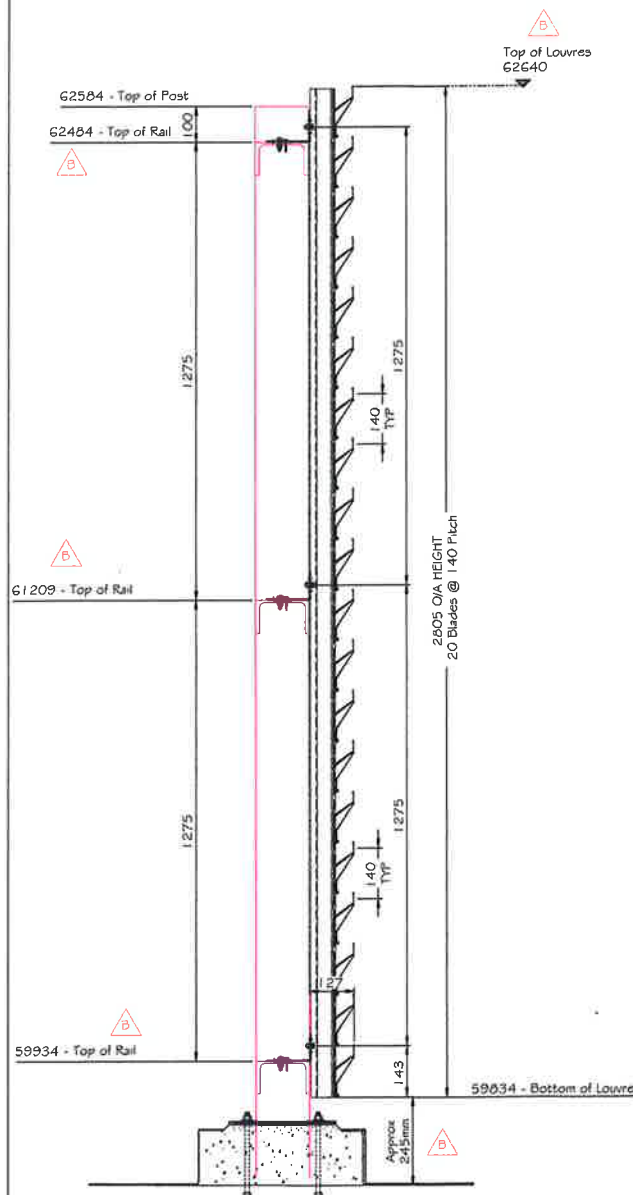
Top, Middle and Bottom Horizontal Rail
150x90x24 PFC shown indicatively
to be engineered and designed by WBS

150x150x16 SHS shown indicatively
to be engineered and designed by WBS

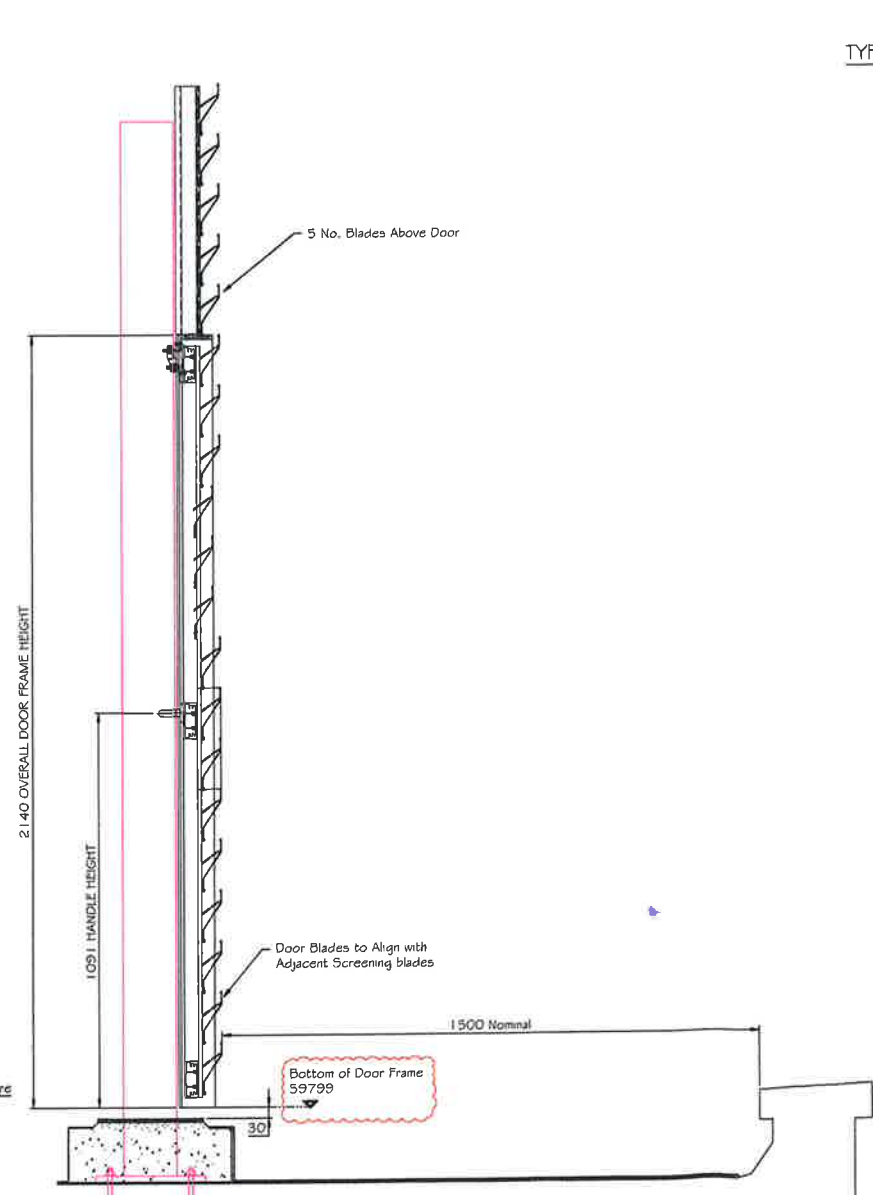
WBS to Ensure Plinth does not clash with Louvre
Please check the Bottom of Door Level (Worst Case Scenario)



TYPICAL BOTTOM DETAIL
Scale: 1:2.5



SECTION 1-1003



SECTION 2-1003

FOR CONSTRUCTION		950 XL SCREENING LOUVRE-PHASE 1		DATE: 12/04/17		LEVOLUX	
BW Interiors Ltd.		PRIMARK HQ, Reading		PROJECT: 1170024		DESIGNED TO CONTROL	
100%		100%		100%		100%	
100%		100%		100%		100%	

SAMPLE RECORD SHEET

Trade Package:	WBS Down Pipes and Guttering		
Sample No:	244		
Sample Type:	Black Gutter, Stop End, Bracket and Pipe Connection		
Photo:			
Signed off by:	Name:	Sample Signed: Yes/No	Date:
Comments			

BW Input	
Comments	BW Proposal to Reading Planning



Applications

The choice of size and profile means that the range includes a system for almost any building or application.

Rainwater system	Porches, garages & sheds	Conservatories	Small to medium houses	Medium to large houses	Flats, small to medium commercial projects
Deepflow					
Clip-master					
Flowline					
Deepflow150					
Classic					

☒ 'ideal application ☐ Suitable

Deepflow 110 x 75mm semi elliptical system

Still the market leader, the Deepflow semi-elliptical profile produces self-cleansing flow resulting in a very high capacity. Deepflow can be installed using a notched or notchless joint (see page 14-15 for details).

Downpipe:

☐ 68mm ☐ 65mm

Colours available:

☐ ☐ ☐ ☐



Clip-master 112 x 49mm nominal half round system

Clip-master is a practical, easy to install PVCu nominal half round gutter system which is compatible with most other manufacturers' half round systems. Clip-master can be installed using a notched or notchless joint, (see page 14-15 for full details).

Downpipe:

☐ 68mm ☐ 65mm

Colours available:

☐ ☐ ☐ ☐



Flowline 112 x 60mm rectilinear system

Flowline is an attractive rectilinear profile PVCu gutter system, capable of carrying capacities in excess of standard half round gutters. Flowline is the aesthetic choice for larger roof areas. Flowline can be installed using a notched or notchless joint (see page 14-15 for full details).

Downpipe:

☐ 68mm ☐ 65mm

Colours available:

☐ ☐ ☐ ☐



Deepflow150 155 x 95mm high capacity semi elliptical system

Deepflow150 is a larger version of the Deepflow profile and is ideal for small to medium commercial projects, flats and industrial applications. Capable of carrying up to 6.0 litres a second, Deepflow150 can be installed using a notched or notchless joint (see page 14-15 for full details).

Downpipe:

☐ 82mm

Colours available:

☐ ☐ ☐ ☐



Classic 116 x 75mm ogee style system

Classic is a bold, highly decorative, Ogee style PVCu gutter system, featuring both internal and external fascia brackets. All Classic fittings are supplied complete with clips and seals. Outlets and unions incorporate screw fixing points to anchor fittings for the control of thermal movement.

Downpipe:

☐ 68mm ☐ 65mm

Colours available:

☐ ☐ ☐ ☐



To order further commercial systems, please contact your Project Sales Manager.



Circular downpipe 82mm system

DOWNPIPE		Size	Code	A	Colour	Qty		
		3m	RPH33	61	W.B.R	4		
		5.5m	RPH355	61	W.B.R	4		
		5.5m length available to order						
SOCKET		Size mm	Code	A	B	Colour	Qty	
			RL3	87	103	W.B.R	4	
CLIPS		One piece	Code	A	B	Colour	Qty	
			RC3	125	93	W.B.R	10	
		Pipe clip including nut and bolt						
			Code	A		Colour	Qty	
			RCJ2	70		W.B.R	20	
		Backplate for use with RC32 clip						
			Code	A	B	Colour	Qty	
			RCE300	48	30	W.B.R	20	
		Nuts and bolts 20mm x 6mm						
			Code				Qty	
			RNB11				20	
OFFSET BEND		Angle	Code	A	B	C	Colour	Qty
		67°	RLE3	43	78	76	W.B.R	4
BENDS		Angle	Code	A	B	C	Colour	Qty
		87½°	RB31*	49	115	136	W.B.R	4
		Angle	Code	A	B	C	Colour	Qty
		45°	RB33*	49	78	70	W.B.R	4

Circular downpipe 82mm system

BRANCH		Angle	Code	A	B	C	Colour	Qty
		45°	RY3*	229	130	55	W.B.R	24
ACCESS PIPE			Code	A	B	C	Colour	Qty
			RF3*	205	101	52	W.B.R	54
SHOE			Code	A	B		Colour	Qty
			RS3	118	22		W.B.R	4

To order further commercial systems, please contact your Project Sales Manager.

Square downpipe 65mm system

BRANCH		Angle	Code	A	B	Colour	Qty
		67½°	RYE1	158	75	W 8 BR	15
ACCESS PIPE		Socket/jugot	Code	A	B	Colour	Qty
				222	95	W 8 BR	30
SHOES		With fixing lugs	Code	A	B	Colour	Qty
				115	40	W 8 BR	15
OUTLET ADAPTOR		Plain	Code	A	B	Colour	Qty
				140	40	W 8 BR	15
DRAIN ADAPTORS		68mm circular spigot to 65mm square socket	Code	A	B	C	Colour
				96	51	41	W 8 BR
		Adapts 65mm square socket to 68mm socket	Code	A	Colour	Qty	
				77	W 8 BR	15	
		Adapts 65mm square socket to 68mm plain ended pipe	Code	A	B	Colour	Qty
				98	40	W 8 BR	15

Deepflow150 150 x 98mm high capacity system

GUTTER		Size	Code	CSA mm²	A	B	Colour	Qty
		4m	RG14	10,060	98	155	W 8 BR	4
UNION BRACKET		Code	A	B	Colour	Qty		
FASCIA BRACKET		Code	A	B	Colour	Qty		
ANGLES		Angle	Code	A	B	Colour	Qty	
RUNNING OUTLET		Code	A	B	C	Colour	Qty	
STOP ENDS		External	Code	A	Colour	Qty		
NOTCH ADAPTOR		Internal	Code	A	B	C	Colour	
		Code	A	B	Colour	Qty		

Adaptors to join different gutter profiles are available to order

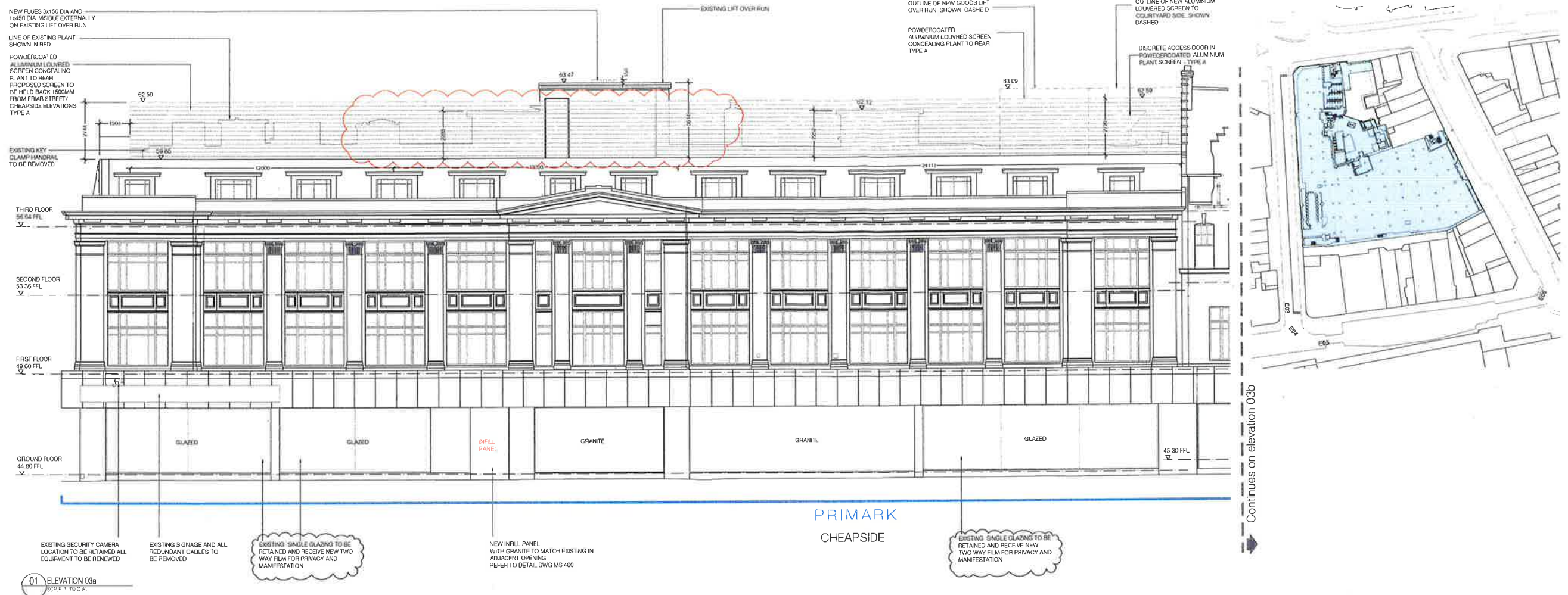
When used with 2 hole screw fixings, brackets meet the Heavy class of BS EN 1462

Special gutter angles are available to order. Please state angle required

82mm circular outlet

Special gutter angles are available to order. Please state angle required

To adapt fitting for notch joining



1	EXISTING SECURITY CAMERA LOCATION TO BE RETAINED ALL EQUIPMENT TO BE RENEWED	ES 1A
2	EXISTING SIGNAGE AND ALL REDUNDANT CABLES TO BE REMOVED	ES 1B
3	EXISTING SINGLE GLAZING TO BE RETAINED AND RECEIVE NEW TWO WAY FILM FOR PRIVACY AND MANIFESTATION	ES 1C
4	NEW INFILL PANEL WITH GRANITE TO MATCH EXISTING IN ADJACENT OPENING REFER TO DETAIL DWG MS 460	ES 1D
5	EXISTING SINGLE GLAZING TO BE RETAINED AND RECEIVE NEW TWO WAY FILM FOR PRIVACY AND MANIFESTATION	ES 1E
6	NEW FLUES 3x150 DIA AND 1x450 DIA VISIBLE EXTERNALLY ON EXISTING LIFT OVER RUN	ES 1F
7	POWDERCOATED ALUMINUM LOUVERED SCREEN CONCEALING PLANT TO REAR PROPOSED SCREEN TO BE HELD BACK 1500MM FROM REAR STREET / CHEAPSIDE ELEVATIONS TYPE A	ES 1G
8	EXISTING KEY CLAMP HANDRAIL TO BE REMOVED	ES 1H
9	THIRD FLOOR 56.04 FFL	ES 1I
10	SECOND FLOOR 53.36 FFL	ES 1J
11	FIRST FLOOR 49.60 FFL	ES 1K
12	GROUND FLOOR 44.80 FFL	ES 1L

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 MoreySmith
 nith

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 London SE1 1 198
 Tel: 020 7 252 7000 1470
 Fax: 020 7 252 1271
 Email: info@morey-smith.co.uk
 www.morey-smith.co.uk

FOR CONTRACT

PRIMARK
 UK HEAD OFFICE REFURBISHMENT
 READING

PROPOSED STREET ELEVATIONS
 CHEAPSIDE
 ELEVATIONS 03a AND 03b

Drawing not to be scaled. It is for Planning Purposes.
 All dimensions to be checked on site. Any discrepancies
 must be reported to the relevant team immediately.

MS 751 RF

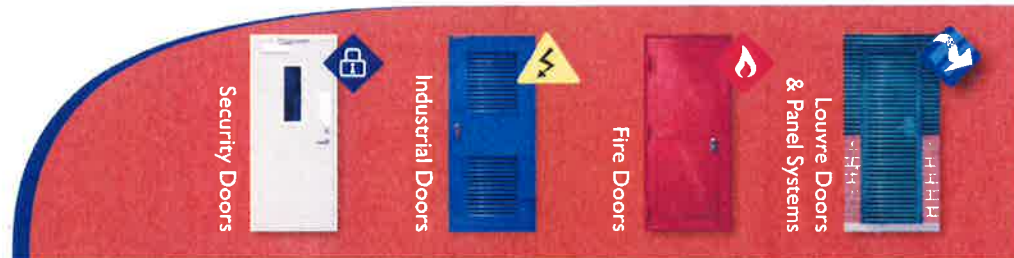
485 EXTERNAL LOUVRED DOORSET TO SUB-STATION - CHEAPSIDE Read in conjunction

with drawings MS 368 and 616

- Manufacturer: Sunray Engineering Ltd
 - Address: Kingsnorth Industrial Estate, Wotton Road, Ashford, Kent TN23 6LL
 - Telephone: 01233 639039
 - Email: sales@sunraydoors.co.uk
 - Web: www.sunraydoors.co.uk
 - Product reference: VentaDoor®.
- Door leaf: 1.5mm Aluzinc.
 - Finish as delivered: Polyester Powder Coated to RAL 7024 Graphite Grey.
- Frame and architraves: 40mm x 40mm x 5mm angle wrap around demountable frame.
 - Finish as delivered: Polyester Powder Coated to RAL 7024 Graphite Grey.
- Ironmongery: Double leaf doors are fitted with drop bolts top and bottom of the passive leaf.
- Fixing: Secondary fix into supporting structure with sleeve anchors as supplied with product.

486 INTERNAL STEEL HEAVY DUTY DOUBLE DOORSET TO SUB-STATION Read in conjunction with drawings MS 368 and 616

- Manufacturer: Sunray Engineering Ltd
 - Address: Kingsnorth Industrial Estate, Wotton Road, Ashford, Kent TN23 6LL
 - Telephone: 01233 639039
 - Email: sales@sunraydoors.co.uk
 - Web: www.sunraydoors.co.uk
 - Product reference: Heavy Duty Door.
- Door leaf: Formed from 6mm thick mild steel plate.
 - Finish as delivered: Polyester Powder Coated to RAL 7024 Graphite Grey.
- Frame and architraves: 50mm x 50mm x 3mm box section frame.
 - Finish as delivered: Polyester Powder Coated to RAL 7024 Graphite Grey.
- Ironmongery: Eurocylinder lock, pull handles.
- Perimeter seals: Fire and smoke seal.
- Other requirements: None.
- Fixing: Secondary fix into supporting structure with sleeve anchors as supplied with product.



Design, manufacture and installation of steel doors and louvre systems

Michael McNamara
BW Workplace Experts
5 Old Bailey
London
EC4M 7BA

Sunray Engineering Ltd
Kingsnorth Industrial Estate
Wotton Road
Ashford, Kent TN23 6LL
Tel: 01233 656643
Fax: 01233 625137

06 March 2017

Quotation No: 53552 rev.1

Issued: 06/03/2017
Valid Until: 05/04/2017
Department: GENERAL

Your Ref: Primark House - Reading

Dear Michael

We thank you for your aforementioned enquiry and have pleasure in submitting our quotation below in accordance with our standard terms and conditions of sale attached.

Quotation Summary (Full details on the following pages)

Line	Product	Detail	Qty	Unit Price	Disc %	Net Price
1	SaverDoor	SaverDoor Double : S/O 1800W x 2100H; Single Point Deadlock	1	1,345.00	2.50	1,311.37 GBP
2	LouvreDoor	Triple : S/O 4460W x 3100H	1	10,315.00	2.50	10,057.12 GBP
3	Installation	Site Installation	1	3,389.00		3,389.00 GBP
4	Delivery	Delivery to site by Curtain Sided Vehicle	1	378.00		378.00 GBP
Supply Only Total:						11,746.49 GBP
Supply & Install Total:						15,135.49 GBP
Price does <u>NOT</u> include optional extras - see over						

Lead Time: 20 working days from a formal order being received and subsequent confirmation of all technical requirements to enable the order to be issued into production, the stated lead time will commence at this point whereby an order acknowledgement will be issued subject to production / installation capacity remaining unsold.

VAT: Prices quoted are subject to VAT at the prevailing rate.

Payment Method: New Customers - First order is on a proforma basis.
Subsequent Orders - An account application form may be requested.
Account holders terms are strictly 30 days from the date of invoice.

Your Ref: Primark House - Reading

We trust this quotation meets with your approval but should you require any further information please do not hesitate to contact the undersigned.

Yours sincerely,

A handwritten signature in blue ink, appearing to be "Bm".

Brydie McCafferty
Sales Administrator

Direct Dial: 01233 656643
Email: brydie.mccafferty@sunraydoors.co.uk

Your Ref: Primark House - Reading

Line	Product	Detail
1	SaverDoor	SaverDoor Double : S/O 1800W x 2100H; Single Point Deadlock

SaverDoor Double : S/O 1800W x 2100H; Single Point Deadlock

Structural Opening: 1800mm wide x 2100mm high
 Finished Frame Size: 1790mm wide x 2094mm high

Fire Rating: 1 hour

Leaves: Double; Astragal Lip; Rockwool Core; 2mm leaf skin

Handing: TO BE CONFIRMED

Opening: Outwards towards you

Head Spec: Single Rebate - Standard Depth: 100mm height 38mm
 Jamb Spec: Single Rebate - Standard Depth: 100mm height 38mm
 Threshold Spec: H Type - standard single rebate
 DEMOUNTABLE FRAME

Hinge Type: Dog Bolt

Locking:
 Single Point Deadlock complete with stainless steel escutcheons, internal thumb turn; external Europrofile cylinder

Passive Locking:
 Flush bolts to top and bottom

Fixing: Through frame fixing

Bolts: Included - TO BE CONFIRMED

Finish: Powder coated - Stock RAL7024 graphite grey matt

Included

- 1 3 No. Standard keys
- 1 Door Closer - Geze TS2000
- 1 Weather seal - 188s Fire Frame Seal
- 2 Pull handle on rose 225 x 19mm SSS

Notes:**Handing, Fixing and Locking details to be confirmed****PLEASE NOTE - THIS DOOR IS NOT PAS 24 OR SBD**

Qty	Unit Price	Disc %	Unit Price after Disc.	Net Price
1.00	1,345.00	2.50	1,311.37	1,311.37 GBP

Optional Extras

Qty Unit Price

If any of the optional extras shown are selected, their price will be incorporated into the new unit price for the product and will therefore attract the discount shown.

Changes to door specification, sizes or fitting methods following results of site survey may incur increased product and installation costs.

Your Ref: Primark House - Reading

Line	Product	Detail
2	LouvreDoor	Triple : S/O 4460W x 3100H

Steel LouvreDoor® Assembly

Structural Opening: 4460 mm wide x 3100 mm high

Finished Frame Size: 4450 mm wide x 3090 mm high

Leaves: Triple - 1No. active leaf @ 858mm wide; 2No. passive leaves @ 858mm wide.

Sidepanels:

Stackable louvred sidepanel to right of door.

Overpanels:

1 No. overpanel - stackable louvred. Overpanel to width of doorset only with REMOVABLE TRANSOM.

Handing: TO BE CONFIRMED Centre Leaf Active

Opening: Outwards towards you

Outer Frame Details:

Left Door Jamb - 100 x 50 RHS

Right Frame To Wall - 100 x 50 RHS

Right Door Jamb - 100 x 50 RHS

Head Spec: 100 x 50 RHS

Transom Spec: 100 x 50 RHS

Threshold Spec: 100 x 10 Flat

FULLY DEMOUNTABLE FRAME with REMOVABLE TRANSOM.

Locking:

3 point locking to internal face. Padlockable handle to external face on active leaf. Drop bolts top & bottom to inactive leaf

Outer Frame Fixing Details:

Left Frame Fixing - TO BE CONFIRMED

Right Frame Fixing - TO BE CONFIRMED

lugs to top and bottom of right jamb

lugs to top and bottom of right frame

Head Fixing - TO BE CONFIRMED

Threshold Fixing - TO BE CONFIRMED

Fixing Bolts: To be confirmed

Warning Sign: No holes required by Scottish & Southern Energy

Meshing: Mesh to rear of louvred areas

Finish:

Powder coated - stock RAL or BS colour - COLOUR TO BE CONFIRMED

Included

- 1 Drip strip to top of door
- 2 Heavy duty door stay
- 1 Padlock Shroud
- 3 Facilities for Earthing Straps to each leaf

Your Ref: Primark House - Reading

Notes:

Offered a triple leaf standard SSE substation door with a sidepanel- please check this meets with your requirements

Qty	Unit Price	Disc %	Unit Price after Disc.	Net Price
1.00	10,315.00	2.50	10,057.12	10,057.12 GBP

Optional Extras

One off charge for non stock RAL or BS powder - COLOUR TO BE CONFIRMED.	<u>Qty</u>	<u>Unit Price</u>
	1	440.00

If any of the optional extras shown are selected, their price will be incorporated into the new unit price for the product and will therefore attract the discount shown.

Changes to door specification, sizes or fitting methods following results of site survey may incur increased product and installation costs.

Your Ref: Primark House - Reading

Line	Product	Detail
3	Installation	Site Installation

Installation of the following items:

2 No. Stackable louvre panels
1 No. Industrial door
2 No. SaverDoors

DISTRIBUTION OF PRODUCTS BY OTHERS

Quoted Installation price subject to change following site survey.

Please refer to our Terms & Conditions of Sale from point 30 onwards for our Installation Terms & Conditions.

Please note that our installation quotation does not include the installation of trench cover or angles.

Qty	Unit Price	Net Price
1.00	3,389.00	3,389.00 GBP

Optional ExtrasQty Unit Price

If any of the optional extras shown are selected, their price will be incorporated into the new unit price for the product and will therefore attract the discount shown.

Changes to door specification, sizes or fitting methods following results of site survey may incur increased product and installation costs.

Your Ref: Primark House - Reading

Line	Product	Detail
4	Delivery	Delivery to site by Curtain Sided Vehicle

Delivery to site for unloading by customer.

By Curtain Sided vehicle between 8AM and 5PM

Qty	Unit Price	Net Price
1.00	378.00	378.00 GBP

Alternative Delivery Method(s)

	<u>Qty</u>	<u>Unit Price</u>
Delivery by Curtain Sided vehicle - timed		487.00
By Curtain Sided vehicle - dedicated		596.00
Delivery by Flatback vehicle between 8AM and 5PM		564.00
Delivery by Flatback vehicle - timed		673.00
Delivery by Hiab or Moffett vehicle between 8AM and 5PM		630.00
Delivery by Hiab vehicle - timed		739.00
Delivery by Moffett vehicle - timed		750.00

THIS DELIVERY CHARGE ALLOWS FOR A TOTAL UNLOADING ALLOWANCE OF 1 HOUR. IF THE WAITING TIME EXCEEDS THIS PERIOD THEN DEMURRAGE WILL BE CHARGED AT THE RATE OF £50/HOUR IN ACCORDANCE WITH RHA GUIDELINES

Your Ref: Primark House - Reading

Terms and Conditions of Sale

Below details the terms and conditions for Sunray Engineering Limited for the sale of goods and services.

NOTE: The following **SUNRAY ENGINEERING LIMITED** General Terms and Conditions shall apply to all quotations and sales orders, unless otherwise specifically agreed in writing by both parties:

1. In these Terms and Conditions (the "Conditions") the following words shall have the following meanings:

- a) The "Buyer" means the person, firm or company who purchases the Goods and/or Services from the Seller under the Contract.
- b) The "Seller" means Sunray Engineering Limited and/or its subsidiaries and/or associates.
- c) The "Contract" means any agreement between the Seller and the Buyer for the sale and purchase of the Goods, or for the supply of Services incorporating these conditions.
- d) The "Goods" means any goods, or products agreed in the Contract to be supplied to the Buyer by the Seller (including any part or parts of them).
- e) The "Pre-existing Materials" means all documents, information and materials provided by the Seller relating to the Services which existed prior to the commencement of the Contract including data, reports and specifications.
- f) The "Scheme" means Part 1 of the Schedule to The Scheme for Construction Contracts (England and Wales) Regulations 1998.
- g) The "Services" means the Services to be provided by the Seller under the Contract as set out therein.
- h) The "Sellers Equipment" means any equipment, including tools, systems, cabling or facilities, provided by the Seller or its subcontractors and used directly or indirectly in the supply of the Services which are not the subject of a separate agreement between the parties under which title passes to the Buyer.
- i) "Working Day" means any day (except Saturday, Sunday, bank holiday or Christmas shut down period).
- j) "Writing" includes fax and email. "Written" shall be construed accordingly.

2. Application of terms

- a) Subject to any variation under Condition 2 (b) the Contract shall be on these Conditions to the exclusion of all other conditions and any contract arising with the Seller (whether collateral to any other contract or otherwise) shall be deemed to be subject to them.
- b) These Conditions apply to all the Seller's sales and any variation to these Conditions and any representations about the Goods shall have no effect unless expressly agreed in Writing and signed by a duly authorised representative of the Seller.

3. Description

- a) The Seller shall not be bound by or liable for any statement, representation, condition, warranty, or term express or implied (whether statute or otherwise) or any variation of any contract which is not contained in a document duly signed on the Seller's behalf.
- b) All drawings, photographs, descriptive matter, weights, dimensions, specifications, brochures, figures as to performance, catalogues, price lists, and all advertising matter issued by the Seller are by way of identification only and their use shall not in any circumstances render any sale, a sale by description, nor form part of any contract nor constitute any representation, unless previously agreed in Writing.

4. Commencement and Duration of the Services

- a) The Services supplied under the Contract shall be provided by the Seller to the Buyer in accordance with the date specified therein.

5. Price for the Goods and Services

- a) Unless otherwise agreed by the Seller in Writing, the price for the Goods shall be the price set out in the Seller's quotation and/or price list published on the date of delivery or deemed delivery. If so required by the Seller the Buyer shall pay a deposit. Prices shown on price lists and quotations are ex-works and exclusive of value added tax unless otherwise stated. Packing, carriage and insurance are shown separately in any quotation and will be invoiced to the Buyer at the Seller's rates prevailing at the time of despatch.
- b) In consideration of the provision of the Services by the Seller, the Buyer shall pay the charges as set out in the Contract, which shall be on a fixed price basis.
- c) The total price for the Services shall be the amount set out in the Contract.
- d) **The remainder of this Condition 5 shall apply to the sale of Goods and the supply of Services**
- e) Any deposit payable shall be paid on acceptance of the Seller's quotation and its due payment is a condition precedent to the Seller being under any liability to supply Goods and/or Services referred to in such quotation.
- f) Subject to Condition 5 (j) Invoices for the price of the Goods and/or Services shall be paid in cleared funds within thirty (30) days of the invoice being rendered (the "Final Date").
- g) Time for payment shall be of the essence.
- h) If the Buyer fails to pay the Seller any sum pursuant to the Contract by the Final Date, the Buyer shall be liable to pay interest on such sum from the Final Date at the annual rate of three per cent (3%) above the base rate for lending of JHSBC Bank PLC, accruing on a daily basis until payment is made, whether before or after any judgment, and the Buyer shall pay all costs and expenses (including legal expenses) incurred by the Seller in collecting such sum.
- i) If any sum is not paid by the Final Date, the Seller may suspend all deliveries and performance until such default is made good or may determine any Contract then subsisting so far as any further Goods and/or Services remain to be delivered or performed and this remedy shall be without prejudice and in addition to any other remedies of the Seller.
- j) Where a Contract is to be or may be fulfilled in separate instalments, deliveries or parts, payment for each such instalment, delivery or part shall be made as if the same constituted a separate contract.
- k) All payments payable to the Seller shall become due immediately on its termination despite any other provisions.
- l) Unless the Buyer delivers to the Seller, before or at the same time as accepting any quotation, any items belonging to or to be supplied by the Buyer for adaption or for incorporation in Goods to be supplied by the Seller and sufficient drawings, specifications and information to enable the Seller to start work at once, the Seller may amend the prices quoted to cover any increase in cost involved in doing the work which arises from the delay in receipt of such items, drawings, specifications and information.
- m) The Seller may increase any price quoted if the amount of work necessary to complete the Goods or Services, or if any costs incurred or to be incurred by it is or are increased due to any alterations by the Buyer in design, quantities and/or specifications and/or any suspension of work arising from instructions or lack of instructions from the Buyer and/or (without prejudice to the Seller's rights under Condition 14 below) due to any item to be supplied by the Buyer for adaption or for incorporation in the Goods to be supplied by the Seller putting unsuitable for or for such incorporation, and/or due to the Seller not obtaining access to the Buyer's premises as and when necessary.
- n) The Seller may make any alteration it thinks reasonably necessary to any item supplied by the Buyer for incorporation into Goods to be supplied by the Seller and charge the cost of so doing to the Buyer.
- o) Any price fixed by reference to a price list (whether that of the Seller or not) is subject to change without notice to the Buyer whether a contract has come into existence or not, unless previously agreed in Writing.
- p) The Seller's quotation includes delivery and allows for a total vehicle waiting/unloading time of 1 hour; in the event that waiting time exceeds this demurrage will be charged at the rate of £50 per hour or part thereof in accordance with RHA guidelines.

6. Seller's obligations for the Services

- a) The Seller shall use reasonable endeavours to provide the Services, in accordance in all material respects with the Contract.
- b) The Seller shall use reasonable endeavours to meet any performance dates specified in the Contract but any such dates shall be estimates only and time shall not be of the essence for performance of the Services.
- c) The Seller shall use reasonable endeavours to observe all health and safety rules and regulations and any other reasonable security requirements that apply at any of the Buyer's premises and that have been communicated to it under Condition 7 (a) iii, provided that it shall not be liable under the Contract if, as a result of such observation, it is in breach of any of its obligations under the Contract.

7. Buyer's obligations for the Services

- a) The Buyer shall:
 - i) Co-Operate with the Seller in all matters relating to the Services;
 - ii) Provide the Seller, its agents, subcontractors, consultants and employees, in a timely manner and at no charge, with access to the Buyer's premises, office accommodation, data and other facilities as reasonably required by the Seller;
 - iii) Inform the Seller of all health and safety rules and regulations and any other reasonable security requirements that apply at any of the Buyer's premises;
 - iv) Be responsible (at its own cost) for preparing and maintaining the relevant premises for the supply of the Services, including identifying, monitoring, removing and disposing of any hazardous materials from any of its premises in accordance with all applicable laws, before the supply of the Services at those premises, and informing the Seller of all of the Buyer's obligations and actions under this Condition 7 (a) iv;
 - v) Be responsible for ensuring that there is suitable mains power being available and provided within close proximity to the installation area, and
 - vi) Be responsible for ensuring that there is suitable on site parking and/or secure off loading/storage facilities for tools and equipment being available.
- b) If the Seller's performance of its obligations under the Contract is prevented or delayed by any act or omission of the Buyer, its agents, subcontractors, consultants or employees, the Seller shall not be liable for any costs, charges or losses sustained or incurred by the Buyer arising directly or indirectly from such prevention or delay.
- c) The Buyer shall not, without the prior Written consent of the Seller, at any time from the date of the Contract to the expiry of 6 months after termination of the Contract, solicit or entice away from the Seller or employ (or attempt to employ) any person who is or has been, engaged as an employee, consultant or subcontractor of the Seller in the provision of the Services.

8. Risk/Title in the Goods

- a) The Goods are at the risk of the Buyer from the time of delivery, and the Buyer should therefore be insured accordingly.
- b) Notwithstanding the earlier passing of risk, ownership in the Goods supplied by the Seller shall remain with the Seller and shall not pass to the Buyer until the amount due under the invoice for the Goods has been paid in full (in cash or in cleared funds), and all other sums which are or which become due to the Seller from the Buyer on any account.
- c) Until ownership of the Goods passes to the Buyer, the Buyer shall:
 - i) Hold such Goods on a fiduciary basis as bailee and trustee for the Seller;
 - ii) Store or mark the Goods (at no cost to the Seller) so that they can at all times be readily identified as the property of the Seller;
 - iii) Not destroy, deface or obscure any identifying mark or packaging on or related to the Goods; and
 - iv) Maintain the Goods in satisfactory condition and keep them insured on the Seller's behalf for their full price against all risk to the reasonable satisfaction of the Company. On request the Buyer shall produce the policy of insurance to the Seller.
- d) The Seller shall be entitled at any time before title passes to repossess and dismantle (without being liable for any damage caused by so doing) and use or sell all or any such Goods and so terminate (without liability to the Buyer) the Buyer's right to use, sell or otherwise deal in them and for that purpose or for determining what if any Goods are held by the Buyer and inspecting them; to enter any premises of the Buyer. The Buyer may recall the Goods before ownership passes to it solely on the following conditions:
 - i) Any sale shall be effected in the ordinary course of the Buyer's business at full market value and the Buyer shall hold such part of the proceeds of sale as represent the amount owed by the Buyer to the Seller on behalf of the Seller and the Buyer will account to the Seller accordingly; and
 - ii) Any such sale shall be a sale of the Seller's property on the Buyer's own behalf and the Buyer shall deal as principal when making such a sale.

e) The Buyer's right to possession of the Goods shall terminate immediately if:

- i) The Buyer has a bankruptcy order made against him or makes an arrangement with his creditors, or otherwise takes the benefit of any act for the time being in force for the relief of insolvent debtors, or (being a body corporate) convenes a meeting of creditors (whether formal or informal), or enters into liquidation (whether voluntary or compulsory) except a solvent voluntary liquidation for the purpose only of reconstruction or amalgamation, or has a receiver and/or manager, administrator or administrative receiver appointed of it or part thereof, or a resolution is passed or a petition presented to any court for the winding up of the Buyer or for the granting of an administration order in respect of the Buyer, or any proceedings are commenced relating to the insolvency or possible insolvency of the Buyer or becoming unable to pay the Buyer's debts as they fall due (each "an Insolvency Event"); or
 - ii) The Buyer suffers or allows any execution, whether legal or equitable, to be levied on his/its property or obtained against him/it, or fails to observe/perform any of his/its obligations under the Contract or any other contract between the Seller and the Buyer, or is unable to pay its debts within the meaning of section 123 of the Insolvency Act 1986 or the Buyer ceases to trade; or
 - iii) The Buyer encounters or in any way changes any of the Goods.
- f) The Buyer grants the Seller, its agents and employees an irrevocable licence at any time to enter any premises where the Goods are or may be stored in order to inspect them, or, where the Buyer's right to possession has terminated, to recover them.
 - g) On termination of the Contract, however caused, the Seller's (but not the Buyer's) rights contained in this Condition 8 shall remain in effect.

- h) The Seller shall be entitled to recover payment for the price of Goods notwithstanding that ownership of any of the Goods has not passed from the Seller.

9. The Seller shall be entitled to recover payment for the price of Goods notwithstanding that ownership of any of the Goods has not passed from the Seller.

10. Delivery of the Goods/Services

- a) All delivery dates specified by the Seller for the delivery of the Goods are intended to be an estimate and time for delivery shall not be made of the essence by notice.
- b) The Seller shall not be liable for any direct, indirect or consequential loss (all three of which conditions include, without limitation, pure economic loss, loss of profits, loss of business, depletion of goodwill and similar loss), costs, damages, charges or expenses caused directly or indirectly by any delay in delivery of the Goods and/or Services (even if caused by the Seller's negligence) nor shall any delay entitle the Buyer to terminate or rescind the Contract unless such delay exceeds 90 days. If no dates are specified, delivery shall be within a reasonable time.
- c) The Buyer must accept delivery of any Goods or Services to be supplied within six months of notification that the Goods are available/Services are available for inspection.
- d) If Goods are ready for delivery but delivery is delayed at the Buyer's request, Goods will be stored at the Seller's premises for the first delayed week thereafter will be placed in a secure warehouse charged to the Buyer at a rate of £50.00 per week or part thereof. This storage charge will be invoiced on a weekly basis and payable upon receipt.
- e) Unless otherwise agreed, Goods shall be delivered to the Buyer at the Seller's place of business.
- f) Delivery of the Goods may be by instalments and each instalment shall be deemed to be the subject of a separate contract. No cancellation or termination of any one Contract relating to an instalment shall entitle the Buyer to repudiate or cancel any other Contract or instalment.
- g) All costs of delivery at places other than the Seller's works shall be borne by the Buyer.

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- h) The Seller can accept no responsibility for any loss or damage to Goods while they are in transit unless they are carried by the Seller's carrier and the Buyer notifies the Seller in Writing (otherwise than upon the carrier's documents) of any loss or damage in transit within three (3) Working Days of receipt of such Goods.
- i) If the Seller delivers to the Buyer a quantity of Goods of up to 5% more or less than the quantity accepted by the Seller, the Buyer shall not be entitled to object to or reject the Goods or any of them by reason of the surplus or shortfall and shall pay for such Goods at the pro rata Contract rate. Deliveries quoted are subject to the capacity remaining unsold at time of any order confirmation.
- 11. Suitability of Premises**
- a) The Buyer warrants that any land and buildings and the contents thereof on or in which the Seller is to carry out any work required by the Buyer are safe and suitable for the purposes to which the Buyer intends to put them and for the installation of the Goods to be installed there.
- b) The Buyer shall insure its land and buildings and the contents thereof and any persons thereon together with all unfixed materials and Goods delivered thereto by the Seller and the tools and equipment owned or hired by the Seller and left at the premises of the Buyer against damage by fire, lightning, explosion, storm, tempest, flood, bursting or overflowing of water tanks, apparatus or pipes, earthquake, aircraft and devices dropped there from, collision, riot and civil commotion and shall provide such evidence as the Seller may reasonably require of the existence of such insurance.
- 12.** If the Buyer suspends, cancels or reduces Goods or Services ordered, the Buyer shall without prejudice and in addition to any other remedy of the Seller be liable to indemnify the Seller against all losses, costs, damages and other expenses (whether direct, indirect or consequential) occasioned by such suspension, cancellation or reduction.
- 13.** Goods shall be deemed to have been accepted by the Buyer if notice of rejection in Writing is not received within 3 Working Days of delivery. In the case of the Seller's installation this service is deemed to have been accepted by the Buyer upon signature of the Seller's site job sheet within 3 Working Days of completion. Upon such acceptance the Goods and Services shall be deemed to comply with the Seller's obligations in all respects.
- 14. Quality of the Goods**
- a) Where the Seller is not the manufacturer of the Goods, the Seller shall endeavour to transfer to the Buyer the benefit by way of warranty or guarantee given to the Seller.
- b) Subject to the provisions of this Condition and to the Conditions set out below, the Seller warrants that (subject to the other provisions of these Conditions) Goods manufactured by the Seller on delivery or completion of installation for the period of 12 months shall:
- i) Be of satisfactory quality within the meaning of the Sales of Goods Act 1979,
- ii) Be reasonably fit for purpose, and
- iii) Be reasonably fit for any particular purpose for which the Goods are being bought if the Buyer had made known that purpose to the Seller in Writing and the Seller has confirmed in Writing this it is reasonable for the Buyer to rely on the skill and judgment of the Seller. Subject to Conditions 14 (c) and 14 (d) if any of the Goods do not conform with the warranty in Condition 14 (b) the Seller will repair or at its option replace the defective Goods or the defective part at the pro rata Contract rate provided that the Buyer, at its own expense and risk, shall adequately pack the Goods and return them at carrier's "risk" rates to the Seller and meet all other incidental expenses howsoever incurred. In cases where it would not be practical for the Buyer to return Goods to the Seller, and a visit is required from the Seller's engineer, the Buyer shall be liable to cover all the costs of travel and incidental expenses incurred.
- c) The Seller shall not be liable for a breach of the warranty in Condition 14 (b) unless:
- i) The Buyer gives Written notice of the defect to the Seller, and, if the defect is as a result of damage in transit to the carrier, as soon as possible after the defect has become apparent or in any event within 3 Working Days of the time when the Buyer discovers or ought to have discovered the defect quoting the serial number of the Goods, if any, and the date of purchase; and
- ii) The Seller is given a reasonable opportunity after receiving notice of examining such Goods, returned in accordance with Condition 14 (b) iii).
- d) The Seller shall not be liable for a breach of warranty in Condition 14 (b) if:
- i) The Buyer makes any further use of such Goods after giving such notice, or
- ii) The defect arises because the Buyer failed to follow the Seller's oral or Written instructions as to the storage, installation or commissioning, use or maintenance of the Goods (or if there are none) good trade practice;
- iii) The Buyer alters or repairs the Goods without the Written consent of the Seller, or
- iv) The Goods have been subject to abnormal use or for use under abnormal conditions or beyond their capacity as rated and recommended by the Seller and the defect has been caused or contributed to by reason of the faulty installation of the Goods by any person other than a person duly authorised by the Seller.
- e) The decision of the Seller is final as to whether or not a defect is due to faulty workmanship or materials and if in the opinion of the Seller the Goods are satisfactory in operation or, if defective, then defective only as a result of accident, neglect, alteration, misuse or wear and tear, the Buyer, if required by the Seller, shall pay a reasonable charge for the examination of the Goods by the Seller and the cost of returning the Goods to the Buyer.
- f) The Seller shall not be liable, in any case, under these Conditions or at all in respect of any Goods not of the Seller's manufacture though the Seller will do all that is reasonable at the Buyer's expense to secure the benefit for the Buyer of any rights which the Seller may have against the supplier of any such Goods.
- g) The Seller shall not be liable for any costs of stripping or reassembling any equipment into which any Goods may be fitted.
- h) If the Seller complies with Condition 14 (b) it shall have no further liability for a breach of the warranty in Condition 14 (b) in respect of such Goods.
- i) If a court considers that it would not be reasonable for the Seller to rely upon any provision of these Conditions, but that it would be reasonable for the Seller to rely on such provision if it were in a modified form, these Conditions shall take effect as if such provision were Written in that modified form.
- 15. Limitation of Liability - the Buyer's attention is particularly drawn to this Condition**
- a) Subject to Conditions 8 and 16 the following provisions set out the entire financial liability of the Seller (including liability for the acts or omissions of its employees, agents and sub-contractors) to the Buyer in respect of any breach of these Conditions, any use made or resale by the Buyer of any of the Goods, or of any product incorporating any of the Goods, or any representation, statement or tortious act or omission including negligence arising under or in connection with the Contract.
- b) Nothing in these Conditions excludes or limits the liability of the Seller for death or personal injury caused by the Seller's negligence, for fraud or fraudulent misrepresentation, under section 2(3) of the Consumer Protection Act 1987, any matter which it would be illegal for the Seller to exclude or attempt to exclude its liability, or for any liability incurred by the Buyer as a result of any breach by the Seller of the condition as to title or the warranty as to quiet possession implied by Section 2 of the Supply of Goods and Services Act 1982.
- c) Subject to Condition 15 (a) and 15 (b):
- i) The Seller's total liability in contract, tort (including negligence or breach of statutory duty), misrepresentation, restitution or otherwise, arising in connection with the performance or contemplated performance of the Contract shall be limited to the Contract price; and
- ii) The Seller shall not be liable to the Buyer for loss of profit, loss of business, or depletion of goodwill in each case whether direct or indirect or consequential, or any claims for consequential compensation whatsoever (howsoever caused) which arise out of or in connection with the Contract.
- 16. Quality**
- a) In the case that Goods are made to the Buyer's design, specification or particular requirement (the "Buyer's Specification") then:
- i) The Buyer shall indemnify the Seller against all loss (direct, indirect or consequential) and expenses arising out of any claim (whether successful or not) for breach of infringement of any third party intellectual property rights (including but not limited to any patent rights, registered design rights, copyright or other similar or equivalent rights whether registered or not and including all applications (or rights to apply) for such rights which subsist or will subsist in any part of the world) arising from the manufacture of the Goods in accordance with the Buyer's Specification.
- ii) The Seller's interest is confined to manufacture in accordance with the Buyer's requirements. Under no circumstances shall the Seller be liable or responsible for any loss or damage consequential or otherwise caused directly or indirectly by any fault in design, drawing, sample or material.
- iii) Any illustrations, photographs and drawings attached to the Seller's quotations or deliveries remain the Seller's property and may not be copied or made accessible to third parties in any way without the prior Written consent of the Seller.
- 17. Confidentiality and the Seller's property**
- a) The Buyer shall keep in strict confidence all technical or commercial know-how, specifications, inventions, processes or initiatives which are of a confidential nature and have been disclosed to the Buyer by the Seller, its employees, agents, consultants or subcontractors and any other confidential information concerning the Seller's business or its products which the Buyer may obtain.
- b) The Buyer shall ensure that its employees, officers, representatives, advisers, agents or subcontractors to whom it discloses such information comply with this Condition 17.
- c) The Buyer shall not use any such information for any purpose other than to perform its obligations under the Contract.
- d) All materials, equipment and tools, drawings, specifications and data supplied by the Seller to the Buyer (including Pre-existing Materials and the Supplier's Equipment) shall, at all times, be and remain the exclusive property of the Seller. It shall be held by the Buyer in safe custody at its own risk and maintained and kept in good condition by the Buyer until returned to the Seller, and shall not be disposed of or used other than in accordance with the Seller's Written instructions or authorisation.
- 18. Termination**
- a) The Seller may terminate any Contract with the Buyer immediately on giving notice to the Buyer if:
- i) The Buyer defaults in making any payment by the Final Date and remains in default not less than 7 days after being notified in Writing to make the payment.
- ii) An Insolvency Event occurs.
- iii) Any land or buildings of the Buyer in which the Seller is to install Goods are not fit for such installation or the Seller is refused access thereto.
- iv) Any item supplied by the Buyer for incorporation into Goods to be supplied by the Seller is not fit for such incorporation or is not supplied punctually.
- 19.** This Contract and any dispute or claim arising out of or in connection with it or its subject matter or formation (including non-contractual disputes or claims) shall be governed by and construed in accordance with English Law, and the parties submit to the exclusive jurisdiction of the English Courts.
- 20.** Without prejudice to the generality of any of these Conditions, the Seller reserves the right to defer the date of delivery or to cancel the Contract or reduce the volume of the Goods ordered by the Buyer (without liability to the Buyer) if it is prevented from or delayed in the carrying on of its business due to circumstances beyond the reasonable control of the Seller, including, but not by way of limitation, war, riot, strikes, lock-outs, shortage of raw materials, natural disaster, fire and explosion, or restraints or delays in obtaining supplies of adequate or suitable materials, provided that, if the event in question continues for a continuous period in excess of 60 days, the Buyer shall be entitled to give notice in Writing to the Seller to terminate the Contract.
- 21.** In cases where the Buyer orders and pays for special powder for the coating of Goods, excess powders not used will be retained in stock at the Seller's premises for a period of 12 months from the purchase date and will thereafter be disposed of due to its shelf life having expired.
- 22.** Call out charges (other than calls which are made in accordance with Condition 14) are charged at a rate of £75 per man per hour including travelling time.
- 23.** Each right or remedy of the Seller under the Contract is without prejudice to any other right or remedy of the Seller whether under the Contract or not.
- 24.** Failure or delay by the Seller in enforcing or partially enforcing any provision of the Contract shall not be construed as a waiver of any of its rights under the Contract. A waiver of any right under the Contract is only effective if it is in Writing and applies only to circumstances for which it is given.
- 25.** The Contract constitutes the whole agreement between the parties and supercedes all previous agreements between the parties relating to its subject matter.
- 26.** The Buyer shall not, without the prior Written consent of the Seller assign any of its rights and obligations of the Contract. The Seller may at any time assign all or any of its rights under the Contract and may subcontract or delegate in any manner any or all of its obligations under the Contract to a third party or agent.
- 27.** If any provision of the Contract (or part of any provision) is found by any court or other authority of competent jurisdiction to be invalid, illegal or unenforceable, that provision or part-provision shall, to the extent required, be deemed not to form part of the Contract, and the validity and enforceability of the other provisions of the Contract shall not be affected.
- 27.** A party who is not a party to the Contract shall not have any rights under or in connection with it.
- 29.** Any notice or other communication to be given under these Conditions shall be in Writing and may be delivered personally, or be sent by first-class pre-paid post, recorded delivery, by fax, by commercial courier or by email to the party to be served at the address for such party as set out in the Contract, or as otherwise specified by the relevant party by notice in Writing to the other party. Any notice or other communication shall be deemed to have been duly received if delivered personally, when left at the address for such party as specified in the Contract, or if served by post served 48 hours after posting, if served by fax at the time of transmission, if delivered by commercial courier, on the date and at the time that the courier's delivery receipt is signed, or if by email the time the email is received into the mailbox of the recipient.

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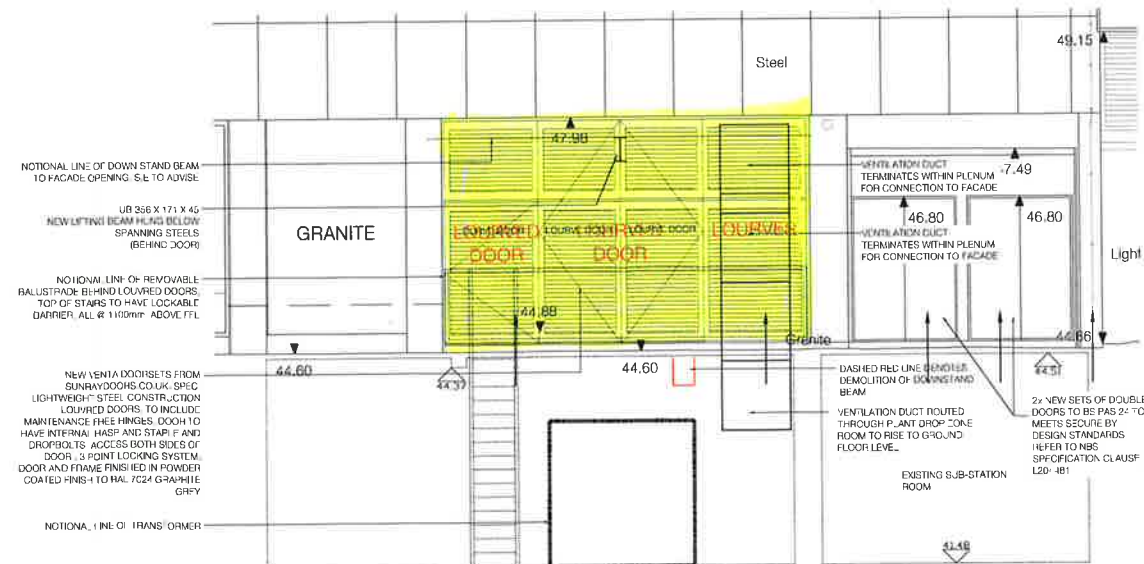
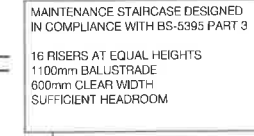
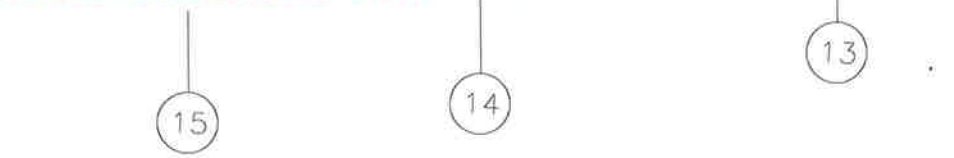
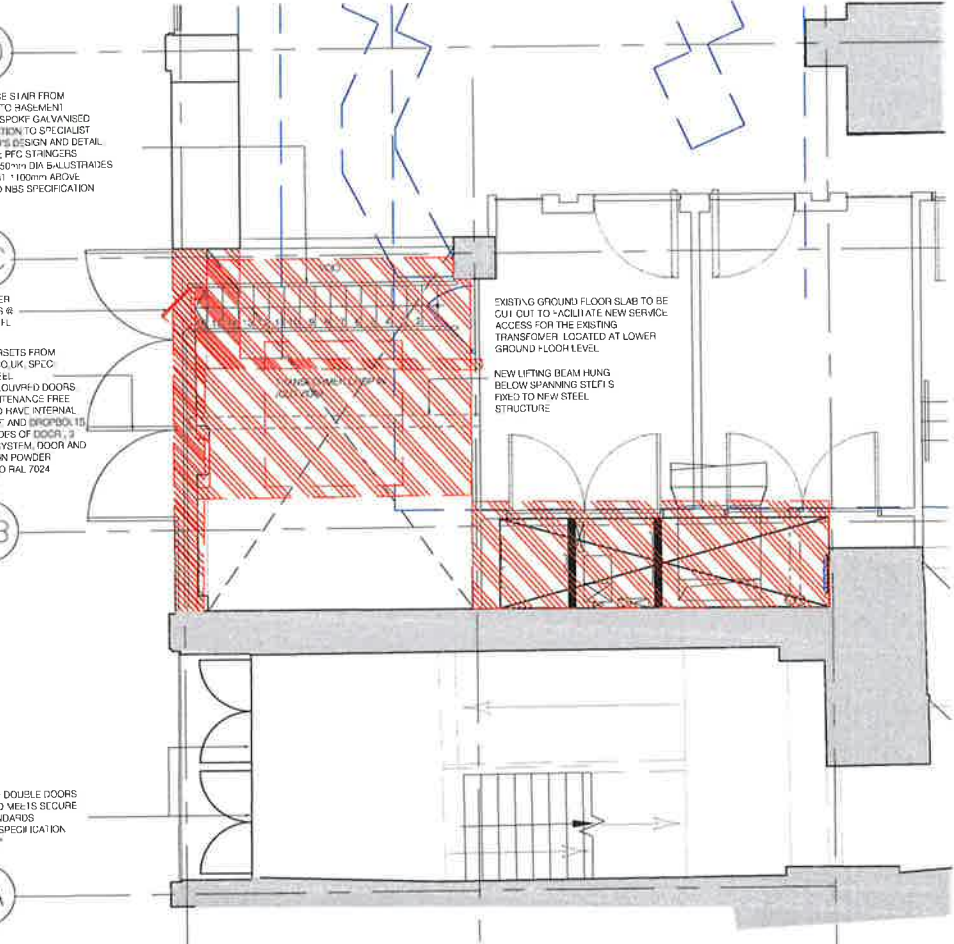
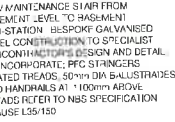
30. **General provisions**
a) The Seller does not accept retention of monies on any supply and/or installation contract.
b) The Seller does not accept liquidated and ascertained damages on any supply and/or installation contract.
c) The Seller does not enter into collateral warranties.

IN THE EVENT THAT THE BUYER CONTRACTS WITH THE SELLER FOR THE INSTALLATION OF THE GOODS THEN THE FOLLOWING CONDITIONS SHALL ALSO APPLY TO THE CONTRACT. IN THOSE CIRCUMSTANCES, TO THE EXTENT THAT THERE IS ANY DISCREPANCY OR INCONSISTENCY BETWEEN THE FOLLOWING CONDITIONS AND CONDITIONS 1 TO 30 ABOVE, THE TERMS OF THE FOLLOWING CONDITIONS SHALL PREVAIL:

31. Installation of trench covers (where specified) does not fall within the scope of works of the Seller and is therefore not included in the quotation provided within Condition 5.
32. If the installation option is taken, a satisfactory preliminary site survey must be obtained, the cost of which is included in the Seller's quotation (Note: Surveys are arranged on the understanding that access to the area is unimpeded and the necessary structural work is completed in the case of new build structures. Upon attendance as agreed, should this be found not to be the case and extra surveys are required as a result, these will be chargeable at £250.00 for each additional survey).
33. For preliminary site surveys in respect of existing doors/frames/structures - these are carried out on the understanding that small parts of the existing framework/structures may have to be removed to ascertain the hidden wall construction to ensure compatibility with our new frame/fixing systems.
34. Installation of the Goods by the Seller includes all necessary standard fixings and consumables such as mastic providing the openings are within an acceptable tolerance. If it is deemed necessary, and the nature of the structure so dictates, to use specialist chemical fixings or other specialist materials, these will be charged at extra cost.
35. All installation quotations provided by the Seller are subject to an allowance of 1 hour for customer site/safety inductions. Additional time taken over and above this will be charged at the rate of £75 per man per hour or part thereof.
36. Goods will either be pre-delivered or delivered to site on the day of installation. It is the Buyer's responsibility to ensure suitable offloading and positioning equipment and labour are available to ensure the Goods are moved in a safe and secure manner, placed adjacent to the aperture to which they are to be fitted and are then protected in such a way as to prevent any damage from site works or exposure to weather conditions. Any damage found upon pre-installation inspection will be chargeable and if un-repairable on site will also involve repair/abortive/re-attendance/re-delivery charges being levied following Written agreement in the form of a purchase/authority order from a responsible and authorised site representative of the Buyer.
37. There will be no charges incurred to the Buyer for cancellation of a previously booked installation provided the Seller is given at least 3 Working Days notice in Writing. If the Seller is notified within 2 working days then a charge of £250 will be levied, within one working day a charge of £300 will be levied and on the actual day of the planned installation the full abortive charge will apply as detailed in point 40 below.
38. Any delays in installation incurred as a result of interrupted access, waiting time, site obstructions, debris, doors incorrectly placed or not placed adjacent to the aperture to which they are to be fitted, incomplete or incorrect civil works (e.g. openings not square or not plumb to the extent that gaps around the frames exceed our standard installation acceptance specifications) or any other reason due to site circumstances that are beyond the Seller's control, will be chargeable at the Seller's standard site attendance rate of £75 per man per hour or part thereof.
39. If any site related delays incurred become excessive to the extent that the Seller's ability to carry out the installation within the allotted time is compromised then abortive/re-attendance charges will be applied at the rate as stated in Condition 40 below in addition to the original quotation costs.
40. If upon attending site on an agreed day, the Seller's installation team are unable to carry out any planned installation works due to the site not being ready (for any reason beyond the Seller's control) then an abortive fee will be charged at the rate of 75% of the installation quotation value.
41. Should any fee be levied as per Conditions 38 & 40 above, no site re-attendance will take place without Written agreement in the form of a purchase/authority order from a responsible and authorised Buyer/Site representative and where necessary pre-payment has been received.
42. The Seller's installation team will endeavour to overcome Buyer site problems/issues wherever possible, however where extra material/labour costs are likely to be incurred as a result, no rectification work will commence without Written agreement in the form of a purchase/authority order from a responsible and authorised site representative of the Buyer.
43. Every care will be taken not to damage surrounding brickwork, plaster or paintwork; however, in some instances, especially where removal of existing doors is involved this may be unavoidable. Any rectification work necessary in conditions of brickwork, render, redecoration, plastering or painting does not fall within the Seller's scope of works and is therefore not included within this quotation or any subsequent Contract placed as a result of acceptance of the aforementioned quotation.
44. Where existing doors/frames have to be removed prior to installation the Seller will only be responsible for their disposal where there are no suitable Buyer site skip arrangements in place and it has been agreed in Writing that the Seller will do so.
45. The Seller does not accept the self-billing scheme and will submit invoices at the agreed rate as per the order acknowledgement and the Contract. Any remittance advices received with payments which indicate self-billing will be treated only as a remittance advice and not as an invoice for VAT.
46. If the site is zero rated for VAT purposes as per HMRC Regulations then it is the Buyer's responsibility to supply the Seller with Written confirmation on letter headed paper of such VAT rating along with any other evidence that the Seller may require. Failure to provide sufficient evidence will result in a demand for payment at VAT on all invoices submitted by the Seller as if the site is rated at the appropriate standard rate of VAT in force at that time.
47. The Seller will submit separate invoices for the Goods/materials and separate invoices for the labour contents. It is the responsibility of the Buyer to ensure that any deductions for tax under the CIS scheme are only made from the labour invoice(s) and not from the goods/materials invoice(s).
48. Not later than 5 days after receipt of any invoice issued by the Seller pursuant to Condition 5(c) the Buyer shall give a Written notice to the Seller which shall, in respect of the amount stated as due in that invoice, specify the amount of the payment proposed to be made, to what the amount relates and the basis on which that amount was calculated.
49. Not later than 5 days before the Final Date the Buyer may give a Written notice to the Seller which shall specify any amount proposed to be withheld and/or deducted from the amount due, the ground or grounds of such withholding and/or deduction and the amount of the withholding and/or deduction attributable to each ground.
50. Subject to any notice given under Condition 49, the Buyer shall no later than the Final Date pay the Seller the amount specified in the notice given under Condition 48 or, in the absence of a notice under Condition 48, the amount as stated in the invoice.
51. Without affecting any other rights and remedies of the Seller, if the Buyer, subject to any notice issued pursuant to Condition 49, fails to pay the Seller in full by the Final Date as required by these Conditions and such failure continues for 7 days after the Seller has given to the Buyer Written notice of its intention to suspend performance of its obligations under this Contract and the ground or grounds on which it is intended to suspend performance, the Seller may then suspend such performance until payment in full occurs.
52. If a dispute or difference arises under this Contract either party may at any time refer such dispute or difference to adjudication, for which purpose the Scheme shall apply, provided that at the same time as he gives any decision the Adjudicator shall give reasons for the decision in Writing.

ADDITIONAL CONDITIONS SPECIFIC TO SECURITY DOOR INSTALLATIONS

53. For installations of security doors to LPS 1175 SR2 the surrounding structure should be constructed of (timber (hardwood), blockwork, brickwork/concrete blockwork or alternatively steel work and offer a security resistance comparable with the security rating of the door.
54. For installations of security doors to LPS 1175 SR3 the surrounding structure should be constructed of brickwork/concrete blockwork or alternatively steel work and offer a resistance comparable with the security rating of the door.
55. For installations of Security Doors to LPS 1175 SR4 the surrounding structure should be constructed of reinforced brickwork/concrete blockwork or alternatively steel work and offer a security resistance comparable with the security rating of the door.
56. For installations of security doors to LPS 1175 SR5 the surrounding structure should be constructed of reinforced concrete alternatively steel work and offer a security resistance comparable with the security rating of the door.
57. For installations requiring certificates of conformity to LPS 1271 - these certificates are issued on the understanding with the Buyer that the level of resistance to attack provided by the surrounding structure to which the doors will be fitted is beyond the control of the Seller.
58. HSE Fees
59. In this Condition the following definitions will apply:
60. "the Buyer's Persons" means all persons employed, engaged or authorised by the Buyer, excluding the Seller, the Seller's Persons and any Statutory Undertaker.
61. "the Seller's Persons" means the Seller's employees and agents and all other persons employed or engaged on or in connection with the Contract or any part of it or any other person properly on the site in connection therewith excluding the Buyer, the Buyer's Persons and any Statutory Undertaker.
62. "Fee for Intervention" has the meaning as defined in Regulation 23 of the Health and Safety (Fees) Regulations 2012.
63. "Health and Safety Executive" has the meaning as defined in section 10 of the Health and Safety at Work Act 1974, as amended by paragraph 4 of the Legislative Reform (Health and Safety Executive) Order 2008.
64. If due to the acts or omissions of the the Buyer or the Buyer's Persons, the Seller incurs any costs, claims, liabilities, charges or expenses ("Costs") arising out of or in connection with any Fee for Intervention that the Health and Safety Executive levies on the Seller, then subject to Condition 64, the Buyer will indemnify the Seller against such Costs. Notwithstanding any other provision the Seller shall be entitled to invoice the Buyer all costs for which the Buyer is liable under this Condition.
65. If the Health and Safety Executive concludes that the breach of Health and Safety Legislation was caused solely by the wrongful acts or omissions of the Seller, the Seller's Persons, the Buyer will be entitled to recover such monies paid pursuant to Condition 63.
66. For the avoidance of doubt the Buyer will provide the indemnity in Condition 63 whether or not the Health and Safety Executive also levies a Fee for Intervention against the Trade Contractor.
67. The indemnity in Condition 63 will apply irrespective of any decision by the Health and Safety Executive as regards the prosecution of any person for an offence under the Health and Safety Legislation.



SAMPLE RECORD SHEET

Trade Package:	Glazing		
Sample No:	114		
Sample Type:	MU07 Rooflight sample detailing framing system, aluminium exterior panel and roof glass.		
Photo:			
Signed off by:	Name:	Sample Signed: Yes/No	Date:
Comments			

BW Input	
Comments	As Sample Schedule and Specification.

RAICO

The Professionals' Profile

Systems for sophisticated architecture



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Credits & Projects



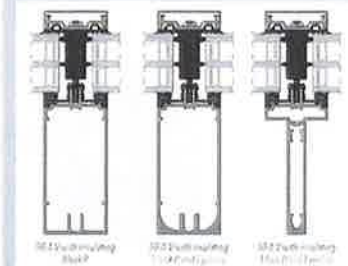


The THERM+ aluminium curtain wall stick system combines maximum application of the range with straight forward planning and manufacture, providing high processing reliability due to the consistent modular technology.

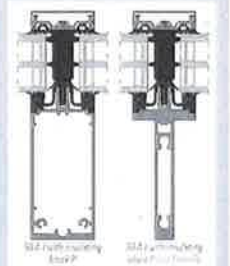
Advantages

- Efficient heat insulation up to passive-house certification with $U_g = 0.80 \text{ W/(m}^2\text{K)}$ (considering screw influence).
- Stepless thermal insulation by means of RAICO Insulation Block Technology.
- Profiles are all suited for mullion and transom usage.
- A large selection of rectangular and T-shaped mullion profiles is available.
- Excellent aesthetics to the flush faced transoms through sharp edge horizontal cuts.
- Numerous options for the T-joint connector assembly.
- Maximum inertia values by means of optimised profile design.
- Wide range of system accessories available.
- Integrated drainage system within continuous three level gaskets.

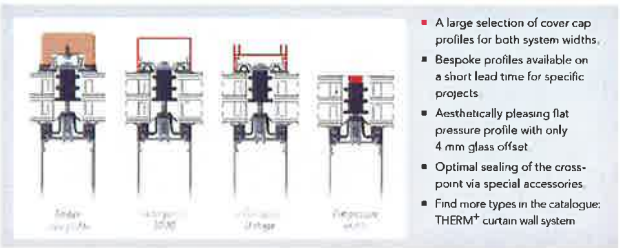
THERM+ A-V
Is ideal for slim, economic curtain wall solutions, featuring reduced internal gasket dimensions and an optimised cost benefit ratio for regular façade applications.



THERM+ A-I
Offers exceptional freedom of design for curtain walls, conservatories and sloped glass roofs with an inclination down to 2°, even with demanding structural or constructional requirements.



Pressure and cover profiles for curtain wall and roof applications



- A large selection of cover cap profiles for both system widths.
- Bespoke profiles available on a short lead time for specific projects.
- Aesthetically pleasing flat pressure profile with only 4 mm glass offset.
- Optimal sealing of the cross-point via special accessories.
- Find more types in the catalogue: THERM+ curtain wall system

Technical Data

	System width in mm	Rectangular profile depth in mm	Expansion profile depth in mm	T-profile depth in mm	T-profile width in mm	Infill thickness in mm	Glass weight in kg	Drainage levels	Polygonal assembly	Application Glass roofs	Application Conservatories
A-V	50/56	25 - 200	100 - 200	50 - 175	50	10 - 44	up to 550	2 or 3	up to 45°	-	-
A-V reinforced	50/56	100 - 200	-	-	-	10 - 44	up to 600	2 or 3	up to 45°	-	-
A-I	50/56	25 - 200	75 - 200	50 - 200	50	6 - 64	up to 600	2 or 3	up to 45°	up to 2° inclination	yes

T-connector — Innovation down to the last detail

A distinctive feature of the THERM+ aluminium curtain wall system is the innovative T-connection technology. Every single detail in its development has been analysed to provide an abundance of advantages:

- Identical for THERM+ A-V/A-I in all system widths.
- Easy butt joint with straight profile cuts, no notching required.
- Various options for structural requirements and assembly methods.
- THERM+ A-V is also available with a reinforcement option for high structural requirements.
- Extremely rigid connections due to the spreader-clamp mechanism when screw fixed.
- T-connectors for vertical loads up to 600 kg. (Verified under German Type Approval).
- Aesthetically pleasing joints due to the optimum contact between mullion and transom across the entire profile.
- The T-connector profiles can be used for structural reinforcement, head and sill fixings as well as expansion joint spigots.



T-connector improve

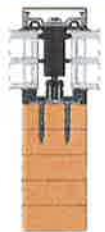


The THERM+ timber curtain wall system provides an approved glazing technology application to structural frames made of any timber based material. For a sustainable and lasting function the consistent system design assures strict separation between the structural elements and the functional components of aluminium profile located gaskets.

Advantages

- Efficient thermal insulation to Passive House certification with $U_g = 0.80 \text{ W/m}^2\text{K}$ (considering screw influence).
- Stepless thermal insulation by means of RAICO Insulation Block Technology.
- Two types of screw fixed aluminium base profiles; with or without profile locator.
- Screw fixings officially endorsed by European Technical Approval, for timber product derivatives having widths of 50 mm.
- Quick and easy fitting of the base profiles. Also suitable for assembly with magazine fed electric screwdrivers.
- No external components penetrate through to the timber frame.
- Integrated drainage system in continuous three level gasket.

THERM+ H-V
is ideal for slim-line, economical curtain walls, with reduced interior gasket dimensions.



THERM+ H-V with insulation block P

THERM+ H-I
for curtain walls and sloped glass roofs with an inclination down to 2°, thus also ideal for any type of timber-aluminium conservatory.



THERM+ H-I with insulation block P

Variants



Coupling mullion
An ideal aid for efficient assembly. Pre-fabricated frames can be finished in the workshop with split coupling mullions, base profiles, interior gaskets and glass supports. On site these frames are simply coupled, glazed and finished with pressure profiles.



Timber Cover Profiles
can be produced in a sustainable and dependable way with THERM+. The glazing technology is based on aluminium and EPDM components. The decorative timber profile is retained by a concealed profile.

Technical Data

	System width in mm	For timber profiles from in mm	Infill thickness in mm	Glass weight in kg	Drainage levels	Polygonal assembly	Application Glass roof	Application Conservatories
H-V	50/54/76	50 width	6 – 64	550/600	2 or 3	up to 45°		
H-I	50/56/76/96	50 width	6 – 64	550/600	2 oder 3	up to 45°	up to 2° inclination	yes

The RAICO timber connector TC

The connectors between mullion and transoms on timber curtain walling must fulfill additional specific requirements. The dead load of the infill units is positioned in front of the timber structure, and the connectors must compensate for this torsional effect in addition to wind pressure and suction forces.

- Two patented RAICO connector options: SOLO and KOMBI for glass weights up to 481 kg.
- For THERM+ H-V/H-I.
- For transom depth from 60 up to 300 mm.
- Minimum preparation: rebated grooves at each end of the transom and drilled holes to both the mullion and transom.
- Simplified assembly: fix mullions, insert transom, secure transom with nail screws, finished.
- Automatic flush position of the transom due to the integrated stop device.
- Option to prefabricate into transportable units.
- Aesthetically correct joints due to T connector pressure across the profiles.



Timber connector TC SOLO



Timber connector TC KOMBI



The THERM[®] Structural Glazing SG2 curtain wall system features the most advanced glazing technique. A narrow silicone joint is the only visible line between the insulation glass panes. Retention of the internal pane is enabled easily, quickly and securely with the use of SG glazing toggles. By utilizing the SG-insulating block, curtain walls achieve outstanding thermal insulation values.

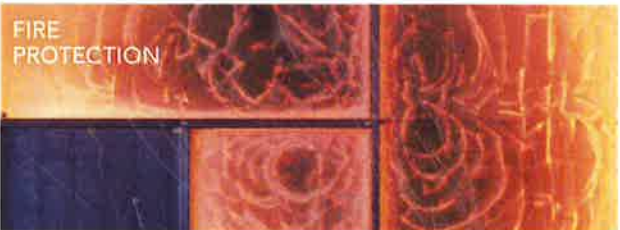
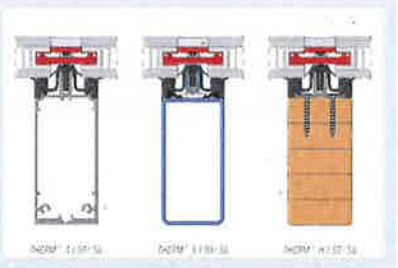
Advantages

- Can be combined with any of our other system variations, with any pressure profiles and also with suction discs.
- Efficient and safe glass fixation with structural glazing toggles.
- High heat insulation up to $U_g = 0,90 \text{ W/(m}^2\text{K)}$ (considering screw influence).
- Available in 50 and 56 mm versions of all THERM[®] systems.
- For double or triple glazing, from 32 to 64 mm thickness.
- Application in glass curtain wall and glass roof possible.

Variety of possible combinations

SG2 curtain wall may be combined with any other version of the system, as well as pressure plate / cover caps and suction discs.

SG curtain wall is available in system widths of 50 and 56 mm, suitable for glazing units from 32 to 64 mm thick.



Minor additions to the standard THERM[®] system are all that is needed to construct fire resistant curtain wall in a range of protection classes. The maximum size of 1,920 mm x 3,000 mm glazing panels provides a new dimension in fire protection.

Advantages

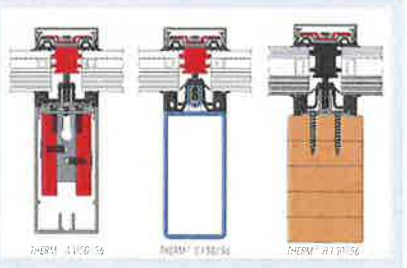
- The design of fire protection curtain wall is identical to the standard systems, thus requiring a minimum of additional cost and fabrication effort.
- Application of standard gaskets.
- Tested glass dimensions: A-V: up to 1,400 x 3,000 mm; S-L: up to 1,500 x 3,000 mm; H-L: up to 1,500 x 3,000 mm or 1,920 x 3,000 mm.
- No visual difference between the variations.
- All standard structural profiles can be applied.
- Maximum freedom of design with storey height screens.

Technical Data

	System width	Fire resistance class	Max. glass formats	General approval
A-V	50/56 mm structural profiles from 50 mm	EI30	1,400 x 3,000 mm	Classification report No. 14-002042-PR01 (dt. Rosenheim)
S-L	50/56 mm structural profiles from 60 mm	E30/EW30/EI30	1,500 x 3,000 mm	Classification report No. C-11-003319-PR01 F14-01-de-01
H-L	50/56 mm structural profiles from 60 mm	F30/G30	1,500 x 3,000 mm	German general approval No. Z-70-A-166
H-L	50/56 mm structural profiles from 60 mm	F30/G30	1,920 x 3,000 mm	Classification report No. C-16-002772-PR01 (dt. Rosenheim)

Technology in detail

- Aluminium: Aluminium glass carrier, short length stainless steel reinforcement to pressure plate, intumescent strip in glazing rebate.
- Steel: Aluminium glass carrier, short length stainless steel reinforcement to pressure plate, intumescent strip in glazing rebate.
- Timber: Aluminium glass carrier, short length stainless steel reinforcement to pressure plate, intumescent strip in glazing rebate.





FRAME⁺ Window system

With the award winning FRAME⁺ aluminium window system, RAICO meets architectural demands whilst setting bench marks in the industry for thermal performance requirements. FRAME⁺ offers a convenient range of thermal performance levels for opening lights, fixed glazing and roof-lights where thermal transfer coefficients of $U_g = 0.79 \text{ W/(m}^2\text{K)}$ are possible.



St. Nikolaus - Linz, GER



Parkside - Stuttgart, GER



St. Nikolaus - Linz, GER



MZ Wohnanlage - Dinslaken, GER



Parkside - Stuttgart, GER



St. Nikolaus - Linz, GER

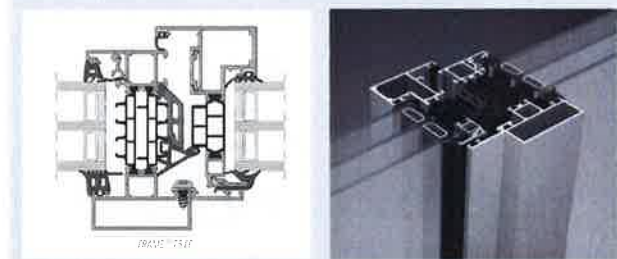


The version FRAME⁺ 75 FF offers additional advantages of this trendsetting window technology, such as a slim-line mullion-ransom design model featuring elevation widths of only 50 mm, and an U_g value of up to 0.98 W/(m²K).

Advantages

- Window curtain wall system with stick system appearance and an external visual width of only 50 mm.
- System depth 75 mm.
- Ideal for economic ribbon windows up to storey height.
- High-insulation windows with U_g up to 0.98 W/(m²K).
- Slim curtain wall appearance with sashes or fixed glazing.
- Comprehensive diversity of design with various cover profiles from the THERM⁺ curtain wall system.
- Available as a dummy mullion sash.

FRAME⁺ 75 FF – Window curtain wall

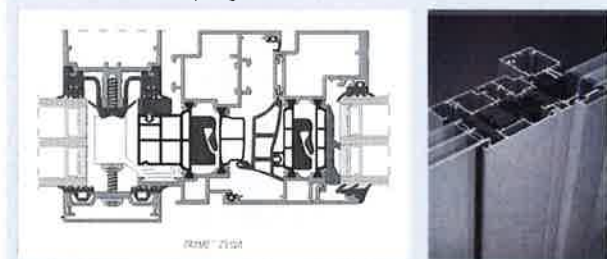


The FRAME⁺ 75 WA version offers several usage as bottom-hung, top-hung, side-hung, top-hung projecting all outward openings. Energy savings by variable adjustment of the insulation values up to U_g – 1.4 W/(m²K).

Advantages

- High-insulation windows with U_g down to 1.4 W/(m²K).
- System depth 75 mm.
- Opening options: bottom-hung, top-hung, side-hung, top-hung projecting.
- Internal or external glazing options.
- Minimal sight lines.
- Available with curtain wall adapter outer frame profile.

FRAME⁺ 75 WA – Outward opening



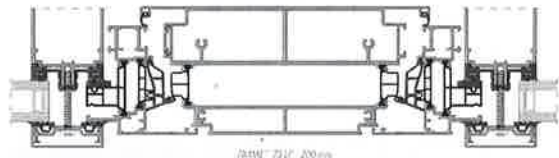


Completing the FRAME+ product series, two ventilation flaps are available for the curtain wall system FRAME+ (elevation width of 200 mm) and the aluminium window system FRAME+ (elevation width of 300 mm). The ventilation flap gives an extraordinary impression regarding a façade's design, due to its characteristic narrow elevation width.

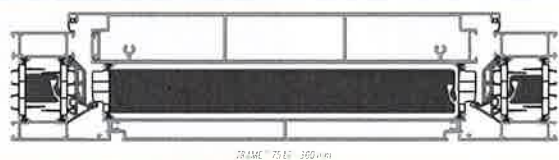
Advantages

- Storey height ventilation with a single thermally broken profile without the need for a frame or glazing beads.
- Inside and outside homogeneous, flat surface.
- Burglar resistant, impact resistant fixed opening width of 120 mm (for FRAME+ 75 LF 200).
- U values down to $U_i = 0.86 \text{ W/(m}^2\text{K)}$.
- With outer frame profile also possible for integration into curtain wall.
- Available for self-fabrication or as pre-assembled units.

FRAME+ 75 LF 200 — Insertion element for the curtain wall system (face width 200 mm)



FRAME+ 75 LF 300 — Insertion element for the punched opening window (face width 300 mm)

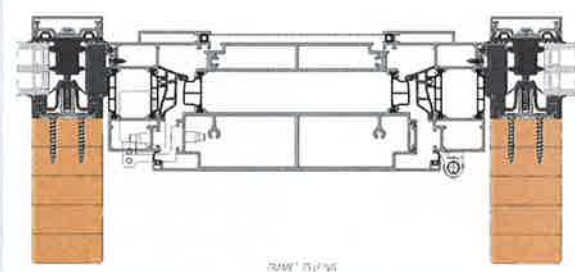


The new automatic ventilation flap definitively combines inconspicuous design with the highest possible level of functionality. It has invisible integrated motor technology and a special outer frame design, enabling the incorporation of an insect protection or perforated sheet metal plate. It ensures the optimal ventilation and aeration of buildings.

Advantages

- By the fixed opening width of 120 mm without further action in the open condition, the flap is burglary and impact-proof.
- The motor drive is perfectly integrated under the continuous center gasket, invisible in the fixed frame.
- Available as system for self-fabrication or as pre-assembled units.
- By running a highly insulated composite airfoil without frame and glazing beads and both sides homogeneous planar surfaces results in a particularly inconspicuous design.
- Integrable inconspicuous insect protection with a 80% open area ventilation.
- Tested values
 - U_i value = $1.4 \text{ W/(m}^2\text{K)}$
 - Air permeability = class 4
 - Wind resistance: class C5/B5
 - Water tightness up to E 900
 - Operating forces: class 1 and 2
 - Resistance against impact: class 5

FRAME+ 75 LF-WG — Quick automatic ventilation



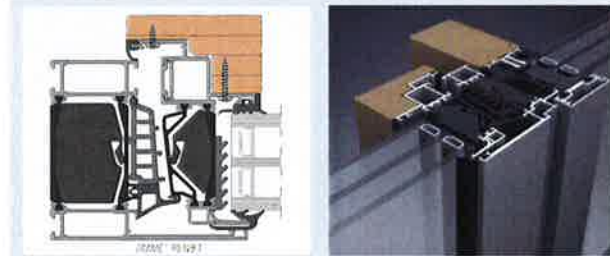


In the new RAICO aluminium timber window FRAME+ 90 WB-T, a warm living ambience meets the most modern composite technology made of highly thermally insulating THERMORIT. Enjoy cosiness in the interior area provided by the use of wood, and classical functionality due to weatherproof aluminium on the outside.

Advantages

- Aluminium timber window with identical processing technology of standard aluminium windows.
- Outstanding thermal insulation with a volume fraction of 60% of the innovative material used for THERMORIT bars:
 $U_g = 0.77 \text{ W/(m}^2\text{K)}$
 $U_f \text{ value} = 0.89 \text{ W/(m}^2\text{K)}$.
- Real wood cladding on the inside as a decorative element, perfectly suited to the optical appearance of the curtain wall. Wide range of different types of wood.
- Individual design options for the interior outer frame profile by using colour adaptable cover profiles.
- Real wood cladding on the inside with simple screw connection technique on production or construction site, exchangeable after installation.
- One piece coextruded medial gasket with insulating foam percentage.
- Compensation of glass infill thickness by special clip gaskets.
- Opening possibilities: Tilt and turn/turn/tilt before turn/tilt.
- Available as system for self-fabrication or as pre-assembled units.

FRAME+ 90 WB-T – Warm living ambience meets the most modern composite technology.

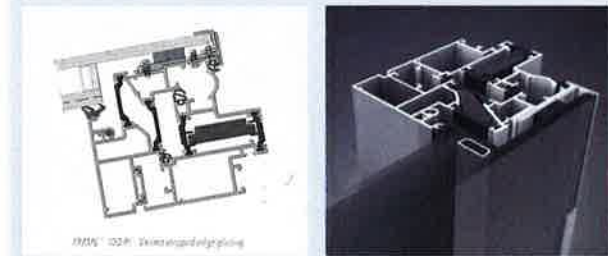


The new window system combines excellently optimised product characteristics with an abundance of design options. As in all variants of the FRAME+ families, the 100 RI also excels by its elegant and slim appearance, paired with good working details, which equally fulfil the demanding requirements of architects and fabricators alike.

Advantages

- Innovative insulating bar material THERMORIT with very low thermal conductivity and suitable for composite coating and anodising.
- Two different glazing variants due to the option for the screw connection of the cover profile (visible or concealed).
- Tested with a roof inclination of up to 2° it forms the perfect complement to the THERM+ glass roof systems.
- High degree of tightness by three peripheral seal levels with medial gasket frame.
- High burglar resistance (RC2) possible.
- Maximum airflow effect due to an opening angle of up to 90°. Tested for natural ventilation as well as a smoke and heat exhaust ventilator acc. to DIN EN 12101-2.
- Various opening possibilities due to mounting options on all four sides, manual or with motor drive. Wide selection of linear or chain drives.
- System depth 100 mm.
- First passive house certified "opening element in the glass roof".
- Available as system for self-fabrication or as pre-assembled units.

FRAME+ 100 RI – Exceptional innovation



Quality in detail

The FRAME® window series also guarantees a high degree of design freedom, in addition to a high energy saving thanks to maximized thermal insulation. The following table shows the achieved values and possible applications of the different systems.

	FRAME® 75 WA Aluminum window	FRAME® 75 WB Consolidated sash window	FRAME® 75 FF Window curtain wall	FRAME® 75 WA Overhead opening	FRAME® 90 WA Aluminum window	FRAME® 90 WB Aluminum window	FRAME® 90 WE Aluminum window	FRAME® 100/120 B Roof light window	FRAME® 100/120 BT Roof light window with tilt
System values									
U _g West passive house in W(m ² K)	—	—	—	—	≤ 0.79	≤ 0.75	—	—	—
U _g West ¹ in W(m ² K)	≥ 0.81	≥ 1.1	≥ 0.98	≥ 1.4	≥ 0.70	≥ 0.75	≥ 0.89	≥ 1.00	≥ 1.40
Building depth in mm	75	75	75	75	90	90	90	from 88	from 88
Applications									
Punched opening window	X	X			X	X	X		
Curtain wall insertion element	X	X		X	X	X	X		
Casement sash		X	X			X	X		
Window curtain wall			X						
Opening element in the glass roof							X	X	
Application limits ²									
Max. weight turn-tilt surface- mounted fitting in kg	130/160/ 200 *	130/160/ 200 *	130/160/ 200 *	—	130/160 *	130/160 *	130	225	225
Max. weight turn surface- mounted fitting in kg	130/160/ 200/300 *	130/160/ 200/300 *	130/160/ 200/300 *	130	130/160/ 200 *	130/160/ 200 *	130	225	225
Max. weight consolidated fitting in kg	150	150	150	—	150	150	150	—	—
Max. sash dimensions ³ in mm	1,600 × 2,100/ 1,600 × 1,000	1,450 × 1,900/ 1,450 × 1,000	1,850 × 1,900/ 1,450 × 1,000	2,500 × 2,000/ 2,000 × 2,500	1,600 × 2,100/ 1,100 × 2,500	1,600 × 2,100/ 1,100 × 2,500	1,600 × 2,100/ 1,100 × 2,500	3,500 × 1,500/ 2,500 × 2,500	3,500 × 1,500/ 2,500 × 2,500
Isol thickness sash in mm	22 – 48	24 – 44	24 – 44	22 – 68	34 – 80	40 – 80	40 – 60	10 – 80	10 – 80
Isol thickness fixed glazing in mm	10 – 56	4 – 50	10 – 56 (4, 5) 4 – 50 (10, 15)	—	35 – 45	—	—	11 – 48	11 – 48

¹ Thermal insulation based on DIN ISO 10077-2

² Applications outside these limits would be subject to an assessment by our Technical Department

³ For authorized sash sizes, see fitting diagram in the relevant planning documents.

* 130 kg with standard fitting up to 200 / 300 kg with reinforced fitting

Tests

The FRAME® window system has undergone rigorous testing according to the product standard for windows and exterior doors EN 14351:1 and achieved the following classification. These values are at the same time the base for simplified CE marking of windows.

	FRAME® 75 WA Aluminum window	FRAME® 75 WB Consolidated sash window	FRAME® 75 FF Window curtain wall	FRAME® 75 WA Overhead opening	FRAME® 90 WA Aluminum window	FRAME® 90 WB Aluminum window	FRAME® 90 WB.T Aluminum window	FRAME® 100/120 B Roof light window	FRAME® 100/120 BT Roof light window with tilt
Air permeability	Class 4	Class 4	Class 4	Class 4	Class 4	Class 4	Class 4	Class 4	Class 4
Resistance to wind load	Class C3/B5	Class C3/B5	Class C3/B5	Class C4/B4	Class C3/B5	Class C3/B5	Class C3/B5	Class C3/C4 *	Class C3/C4 *
Resistance against impact	Class 5	Class 3	Class 3	—	Class 5	Class 5	Class 5	—	—
Water tightness	up to E 1350	up to E 1350	up to E 1350	up to E 500	up to E 1200	up to E 1200	up to E 1200	up to E 1300	up to E 1500
Operating forces	Class 1 and 2	Class 1 and 2	Class 1 and 2	Class 1	Class 1	Class 1	Class 1	—	—
Airborne sound insulation ¹	R _w (C,C ₂) = 30(-1;-4)dB R _w (C,C ₂) = 42(-1;-4)dB	R _w (C,C ₂) = 30(-1;-4)dB R _w (C,C ₂) = 42(-1;-4)dB	R _w (C,C ₂) = 30(-1;-4)dB R _w (C,C ₂) = 42(-1;-4)dB	—	R _w (C,C ₂) = up to 43 dB	R _w (C,C ₂) = up to 45 dB	R _w (C,C ₂) = up to 45 dB	R _w (C,C ₂) = 37 up to 43 dB	R _w (C,C ₂) = 37 up to 43 dB
Mechanical strength	Class 4	Class 4	Class 4	—	Class 4	Class 4	Class 4	—	—
Burglar resistance	Class WK2	Class WK2	Class WK2	—	Class RC 2	Class RC 2	Class RC 2	Class RC 2	Class RC 2
Continuous operational testing EN 14400:2002:10	Class 2	Class 2	Class 2	Class 2	—	—	—	Class 3	Class 3

¹ Tested to RAL GZ 495

² The values are referred to the standard size of 1.21 × 1.43 m

* Values are maximum testbedmax. classification

The classification must be realized according to the requirements of the specifications



FRAME+ 75 DI fulfils all the requirements for a high quality entrance door. Special profile contours enable simple installation. The series is characterised by short production times and efficient manufacturing. Smooth rebate geometries enable fast installation of all types of hardware in the rebate. Large internal chambers within the profiles provide acceptance of all fittings, such as electrical door release mechanisms.

Advantages

- Featuring U_g values down to $0.69 \text{ W/(m}^2\text{K)}$ to meet passive house standards.
- Buildings, curtain wall and residential project installations.
- Extensive design options within the series.
- Standard fittings.
- Ease of manufacture with innovative features.
- Sturdy composite profiles ensuring long-lasting functionality.
- Tested to EN 12208 for water tightness:
 - Inward opening door to Class 9A (600 Pa)
 - Outward opening door to Class 8A (450 Pa)
- Inward and outward opening double doors.
- Inward and outward opening rebated dummy sidelight doors.
- Optional rebated meeting stiles.
- Integral sidelights and fanlights.
- Outward opening escape doors to EN 179 / 1125.

3D-concept

- High degree of tightness due to innovative sealing concept.
- Improved insulation of up to $U_g = 1.4 \text{ W/(m}^2\text{K)}$.
- Large dimensions, up to 3.0 m height.



Selection of door combinations

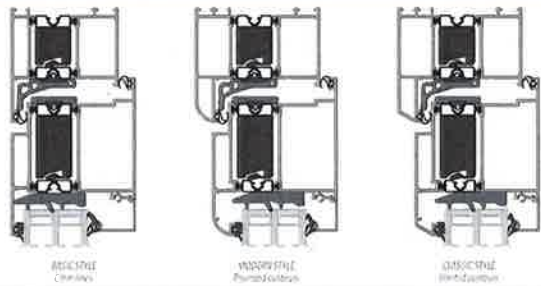


Individuality and appearance are of high importance when considering the design of entrance doors, to enable symbiosis with the building. The FRAME+ door system offers creative options through the large range of profiles that can be perfectly combined with decorative door panels.

Aluminium front doors with an individual design

Three different design versions offer a wide range of individual design options. Nearly any design – from an expressive linear composition to soft flowing shapes – can be created with the FRAME+ door system.

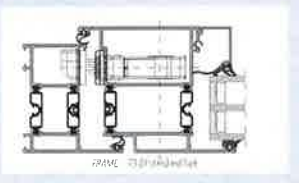
- Three different design types:
 - Basic Style – linear profile.
 - Modern Style – softer edges with curved contours.
 - Classic Style – distinguished lines with bevelled contours.
- Optional grey gaskets to minimise optical contrasts.
- All design variations are compatible in any combination.



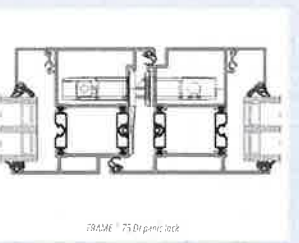


FRAME® profiles have been designed to accommodate open market standard fittings. Smooth rebate construction enables fast and easy installation of a wide range of products (i.e. concealed door locks). Using a standard milling template for all lock types provides optimised fabrication as well as offering simple replacement or change of use options. A large range of accessories caters for individual customer requirements.

- Standard lock for inward or outward opening doors**
- Standardised profile processing for locks and strike plates.
 - Latch lock / dead locks.
 - Multi point locking system with shoot or hook bolts.
 - Automatic locking with or without electrical release mechanism.



- Emergency exit / panic lock in accordance with EN 179 / 1125**
- Emergency exit and panic doors.
 - Tested in accordance with EN 179 / 1125 for ability to release.
 - Latch lock / dead locks with shift function E.
 - Latch lock / dead locks with changeover function B.
 - Single and multi point locking.
 - Integral electrical release and monitor options.
 - Automatic locking to the slave leaf of a pair of doors with full or partial escape mechanism.



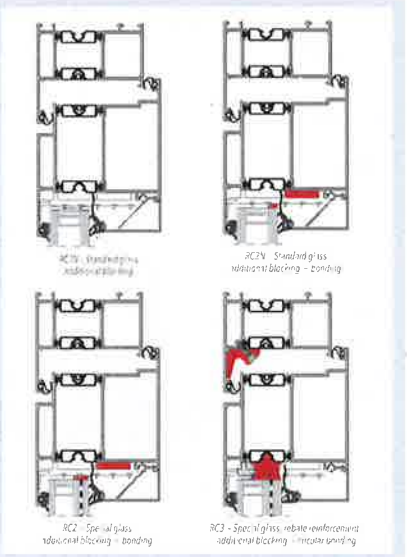
BURGLAR RESISTANCE



Feel secure by night and day. With innovative technology, the RAICO door system can be individually equipped with burglar resistant components to suit your security requirements. With analogue installation options in all design variations, you don't have to forgo any creative freedom.

Optimum safety based on the latest Know-How

Just by adding a few supplementary system components the RAICO door system can be equipped with burglar resistant properties in resistance classes RC1, RC2 and RC3. Maximum creative freedom is enabled via analogue installation options with Modern Style and Classic Style design variants.

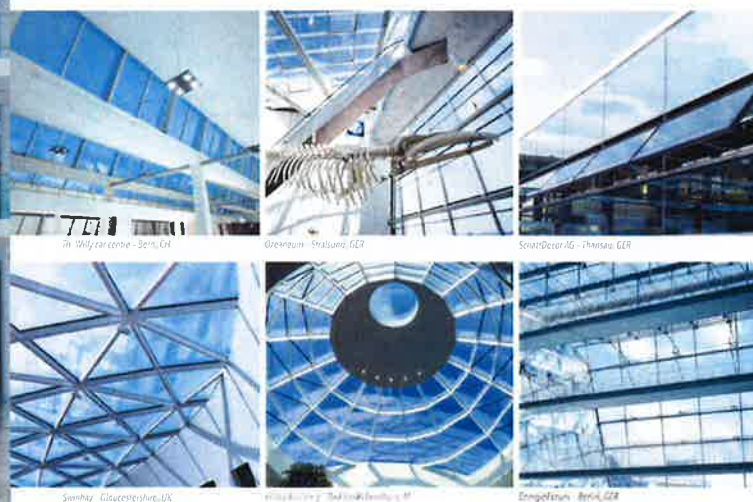




WING

Window System

With their comprehensive range of opening types and their numerous design variations the WING integration window systems provide an extremely large spectrum for diverse requirements in curtain wall and glass roofs.



in Willybrandt - Berlin, DE

Greenum - Braunschweig, DE

ScoutDecor AG - Thuringia, DE

Janney - Gloucestershire, UK

Winghouse - Berlin, DE

Engelhorn - Berlin, DE

WING 105 DI ROOF LIGHT WINDOW



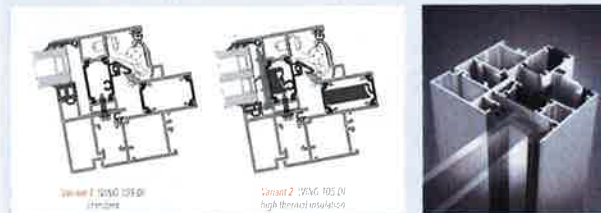
With its low-profile height, its large sash dimensions and its specific sealing technique, the WING 105 DI skylight is the perfect solution for almost any application with an inclination down to 2° from horizontal.

Advantages

- Two-frame sash design without any visible screws or glazing beads on the outside.
- Infill thickness 9 to 48 mm.
- Reliable drainage due to a special profile design and triple sealing system for safe water tightness.
- Completely integrated hinges, mountable on any side.
- Maximum airflow effect due to an opening angle of 65° (90° available).
- High thermal insulation option WING 105 DI.
- Designed to complement the THERM[®] glass roof systems, even down to 2° inclination.
- Available for natural ventilation as well as a smoke and heat exhaust ventilator in large sash sizes up to 4.0 m².
- Only 37 mm of glass offset between the glass roof and the roof light window.
- Available as system for self-fabrication or as pre-assembled units.

Variants: WING 105 DI

- Variant 1: Standard with twofold glazing
- Variant 2: High thermal insulation with threefold glazing and insulation insertion



Quality in detail

	WING 50 A	WING 50 SK	WING 105 DI*
Technical Data			
Max. width in mm	2,700	2,700	2,500
Max. height in mm	2,500	2,700	2,500
Max. sash weight in kg	150 kg (60 kg side hung)	180 kg	165 kg (110 kg side hung)
Opening types	60°	20°/30°/45°/50°	65° (90°)
Infill thickness in mm	24 – 46 mm	24 – 46 mm	9 – 48 mm
Approvals based on product standard for window EN 14351-1			
Wind resistance	Class C4	Class C4	Class C4
Air permeability	Class 4	Class 4	Class 4
Water tightness	E 1,800	E 1,800	E 1,500
Airborne sound insulation	$R_w(C,C_2)=43(-1,5)$ dB	$R_w(C,C_2)=43(-1,5)$ dB	—
Burglar resistance	WK2	WK2	—
Continuous operational testing	Class 2	Class 2	—
Thermal insulation	—	—	$U_f = 2.7 \text{ W/(m}^2\text{K)}$ up to 3.2 W/(m ² K) * tested with 2° inclination

The NRW-System

- Efficient natural and smoke ventilation due to wide opening angles of 60° in curtain walling and up to 90° in glass roofs.
- WING 50 A and WING 50 SK available in framed and stepped edge structurally bonded options.
- Top hung / projecting top hung / side hung / bottom hung outward opening options within curtain wall and glass roofs.
- Large window formats possible, up to 3.5 m² in the curtain wall and 4 m² in the glass roof.
- Range of actuator and motor options for high performance requirements.
- Available for self-fabrication or as pre-assembled units.

NRWG — Technical Data according to EN 12101-2 smoke and heat control systems

	WING 50 A Single flap Bottom / Top-hung	WING 50 SK Single flap Roof	WING 50 SK Single flap Top-hung projecting	WING 105 DI Single flap Top-hung	WING 105 DI Twofold single flap Bottom / Top-hung
Opening	Bottom / Top-hung	Roof	Top-hung projecting	Top-hung	Bottom / Top-hung
Installation conditions	—	—	—	—	Roof / Barrel roof Saddled back roof
Position	90°	90°	90°	25 – 60°	2 – 15° 16 – 30° 2 – 30°
Max. width in mm	2,700	1,400	2,700	2,500	2,500 * 2,500 * 2,500 *
Max. height in mm	2,500	2,400	2,700	2,500	5,000 * 2,500 * 5,000 *
Max. sash surface in m ²	3.5	1.89	3.5	4 (position 25–30°) 3.75 (position 30–60°)	4 ** 4 ** 4 **
Max. A _v in m ²	—	—	—	—	7.35 * 5.76 * 7.35 *
Max. sash weight in kg	150	60	136	165	165 ** 165 ** 165 **
Max. opening angle	60°	60°	50°	65° (90°)	65° (90°) 65° (90°) 65° (90°)

* Specifications refer to the complete element three-fold single flap
** Specifications refer to the wing of the single flap

**RAICO SYSTEM
FRAME 90 W**
FRAME 90 W
PHOTOGRAPHY:
Pfeifer Sud,
Le Landeven



**ZWUV GRÜN-
FLÄCHENAMT –
FRANKFURT/
MAIN, GER**

BUILDER:
G & LARS Management
GmbH, Eschborn
ARCHITECT:
schneider + schwan-
der Planungsgesellschaft
mbH, Frankfurt
FABRICATOR:
ALU SOMMER Gewerke
GmbH, Aulendorf
BUILD DATE:
2014/2015

**RAICO SYSTEM
THERM A1
FRAME 90 W**

VISUALIZATION:
Frankfurt am Main



**WEST BUCK-
LAND SCHOOL –
DEVON, UK**

BUILDER:
Reece Construction Ltd
ARCHITECT:
M&J Russell &
Associates
FABRICATOR:
Bullocks Ltd
BUILD DATE:
2017

**RAICO SYSTEM
THERM H1
PHOTOGRAPHY:**
M&J Russell



**SIGMUND-FREUD
UNIVERSITY –
VIENNA, AT**

BUILDER:
Hochschule für
Angewandte
Technik
ARCHITECT:
Hochschule für
Angewandte
Technik
FABRICATOR:
STRABAG AG
BUILD DATE:
2014

**RAICO SYSTEM
THERM A1
FRAME 90 W**

PHOTOGRAPHY:
RAICO Bautechnik

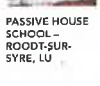


**CITY CUBE –
BERLIN, GER**

BUILDER:
Messe Berlin GmbH
ARCHITECT:
Cocke Gruppe GmbH,
Berlin
FABRICATOR:
Metallbau Wendt
GmbH
BUILD DATE:
2014

**RAICO SYSTEM
THERM S1
FRAME 90 W**

PHOTOGRAPHY:
Metallbau Wendt
GmbH



**PASSIVE HOUSE
SCHOOL –
ROODT-SUR-
SYRE, LU**

BUILDER:
Commune de Roodt-
sur-Syre
ARCHITECT:
Bureau Marc
Dieschbourg
FABRICATOR:
Büchtemann Lang
Fenster
BUILD DATE:
2012

**RAICO SYSTEM:
THERM H1
PHOTOGRAPHY:**
Büchtemann Lang
Fenster



**PRIMARY SCHOOL
– NEUBERG, GER**

BUILDER:
Gemeinde Neuberg
ARCHITECT:
Ging & Grossmann
Architekten, München
FABRICATOR:
Fenster GmbH, Metall
bautechnik
BUILD DATE:
2017/2018

**RAICO SYSTEM
THERM H1
PHOTOGRAPHY:**
Peter Franke



**FURNITURE
STORE FINKE –
HAMM-
RHYERN, GER**

BUILDER:
Finke
ARCHITECT:
Finke
FABRICATOR:
Finke
BUILD DATE:
2012

**RAICO SYSTEM:
THERM S1
FRAME 75 W**

PHOTOGRAPHY:
Finke



**PARC / PENIN-
SULA ADIATIC
RECREATION
CENTRE –
FRANKSTON, AUS**

BUILDER:
Frankston City Council
ARCHITECT:
Frankston City Council

**MEDXPERT –
ESCHBACH, GER**

BUILDER:
Chaplin Bauhaus
Eschbach
ARCHITECT:
Chaplin Bauhaus
Eschbach
FABRICATOR:
Freyer Metallbau
GmbH, Koenigs
berg
BUILD DATE:
2017/2018

**RAICO SYSTEM
THERM A1
FRAME 75 W**

PHOTOGRAPHY:
Johannes Hagemann



**LOHN AG –
BADEN-BADEN,
GER**

BUILDER:
Lohn AG
ARCHITECT:
Lohn AG
FABRICATOR:
Lohn AG
BUILD DATE:
2017/2018

**RAICO SYSTEM:
THERM S1
FRAME 75 W**

PHOTOGRAPHY:
Lohn AG



**UMWELTARENA –
SPREITENBACH, CH**

BUILDER:
Umweltarena
ARCHITECT:
Umweltarena
FABRICATOR:
Umweltarena
BUILD DATE:
2017/2018

**RAICO SYSTEM:
THERM S1
FRAME 75 W**

PHOTOGRAPHY:
Umweltarena

**FAÇADE PLANNER:
LARS Technologies Pty
Ltd, Canberra
FABRICATOR:
Mercury Industry Pty
Ltd, Giller Linn
BUILD DATE:
2012/2014**

**RAICO SYSTEM
THERM A1
FRAME 75 W**

PHOTOGRAPHY:
RAICO Bautechnik



**LANDESSPAR-
KASSE – OLDEN-
BURG, GER**

BUILDER:
Landessparkasse zu
Oldenburg
ARCHITECT:
BKW Architektur
Studio, Kollmann
Hofmann
FABRICATOR:
BKW Architektur
Studio, Kollmann
Hofmann
BUILD DATE:
2017/2018

**RAICO SYSTEM:
THERM S1
FRAME 75 W**

PHOTOGRAPHY:
BKW Architektur
Studio, Kollmann
Hofmann



**OZEANEUM –
STRALSUND, GER**

BUILDER:
Stiftung Deutsches
Meeresmuseum,
Stralsund
ARCHITECT:
Behnisch Architekten,
Stuttgart
FABRICATOR:
LUDO Fassadenwerk
GmbH, Bad Hersfeld
BUILD DATE:
2017/2018

**RAICO SYSTEM:
THERM S1
FRAME 75 W**

PHOTOGRAPHY:
LUDO Fassadenwerk
GmbH, Bad Hersfeld



**SWINHAY –
GLOUCESTER-
SHIRE, UK**

BUILDER:
Swinhay
ARCHITECT:
Swinhay
FABRICATOR:
Swinhay
BUILD DATE:
2017/2018

**RAICO SYSTEM:
THERM S1
FRAME 75 W**

PHOTOGRAPHY:
Swinhay

**ENERGIE-
FORUM –
BERLIN, GER**

BUILDER:
HPE International
Property GmbH
ARCHITECT:
HPE International
Property GmbH
FABRICATOR:
HPE International
Property GmbH
BUILD DATE:
2014

**RAICO SYSTEM:
THERM S1
FRAME 75 W**

PHOTOGRAPHY:
HPE International
Property GmbH



**HÖFE AM BRÜHL
– LEIPZIG, GER**

BUILDER:
Höfe am Brühl
ARCHITECT:
Höfe am Brühl
FABRICATOR:
Höfe am Brühl
BUILD DATE:
2017/2018

**RAICO SYSTEM:
THERM S1
FRAME 75 W**

PHOTOGRAPHY:
Höfe am Brühl



**TWO-FIELD
SPORTS HALL –
MÜNSTER, GER**

BUILDER:
City of Münster
ARCHITECT:
City of Münster
FABRICATOR:
City of Münster
BUILD DATE:
2017/2018

**RAICO SYSTEM:
THERM S1
FRAME 75 W**

PHOTOGRAPHY:
City of Münster



**OFFICE BUILDING
– BAD SANKT
LEONHARD, AT**

BUILDER:
Georgien GmbH
ARCHITECT:
Georgien GmbH
FABRICATOR:
Georgien GmbH
BUILD DATE:
2017/2018

**RAICO SYSTEM:
THERM S1
FRAME 75 W**

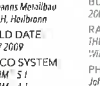
PHOTOGRAPHY:
Georgien GmbH

**SCHATTEDECOR
AG –
THANSAU, GER**

BUILDER:
Schattdecor AG
ARCHITECT:
Schattdecor AG
FABRICATOR:
Schattdecor AG
BUILD DATE:
2017/2018

**RAICO SYSTEM:
THERM S1
FRAME 75 W**

PHOTOGRAPHY:
Schattdecor AG

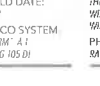


**TH WILLY AUTO-
ZENTRUM –
BERN, CH**

BUILDER:
Th Willy AG
ARCHITECT:
Th Willy AG
FABRICATOR:
Th Willy AG
BUILD DATE:
2017/2018

**RAICO SYSTEM:
THERM S1
FRAME 75 W**

PHOTOGRAPHY:
Th Willy AG



**PARC / PENIN-
SULA ADIATIC
RECREATION
CENTRE –
FRANKSTON, AUS**

BUILDER:
Frankston City Council
ARCHITECT:
Frankston City Council

**RAICO SYSTEM:
THERM S1
FRAME 75 W**

PHOTOGRAPHY:
Frankston City Council



**THE BOX –
BERLIN, GER**

BUILDER:
The Box
ARCHITECT:
The Box
FABRICATOR:
The Box
BUILD DATE:
2017/2018

**RAICO SYSTEM:
THERM S1
FRAME 75 W**

PHOTOGRAPHY:
The Box



**ENERGIE-
FORUM –
BERLIN, GER**

BUILDER:
HPE International
Property GmbH
ARCHITECT:
HPE International
Property GmbH
FABRICATOR:
HPE International
Property GmbH
BUILD DATE:
2014

**RAICO SYSTEM:
THERM S1
FRAME 75 W**

PHOTOGRAPHY:
HPE International
Property GmbH



**HÖFE AM BRÜHL
– LEIPZIG, GER**

BUILDER:
Höfe am Brühl
ARCHITECT:
Höfe am Brühl
FABRICATOR:
Höfe am Brühl
BUILD DATE:
2017/2018

**RAICO SYSTEM:
THERM S1
FRAME 75 W**

PHOTOGRAPHY:
Höfe am Brühl



**TWO-FIELD
SPORTS HALL –
MÜNSTER, GER**

BUILDER:
City of Münster
ARCHITECT:
City of Münster
FABRICATOR:
City of Münster
BUILD DATE:
2017/2018

**RAICO SYSTEM:
THERM S1
FRAME 75 W**

PHOTOGRAPHY:
City of Münster



**OFFICE BUILDING
– BAD SANKT
LEONHARD, AT**

BUILDER:
Georgien GmbH
ARCHITECT:
Georgien GmbH
FABRICATOR:
Georgien GmbH
BUILD DATE:
2017/2018

**RAICO SYSTEM:
THERM S1
FRAME 75 W**

PHOTOGRAPHY:
Georgien GmbH

RAICO

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Telefax +49 8265 911 100
E-Mail info@raico.de
www.raico.de

RAICO France S.à.r.l.
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67960 Entzheim

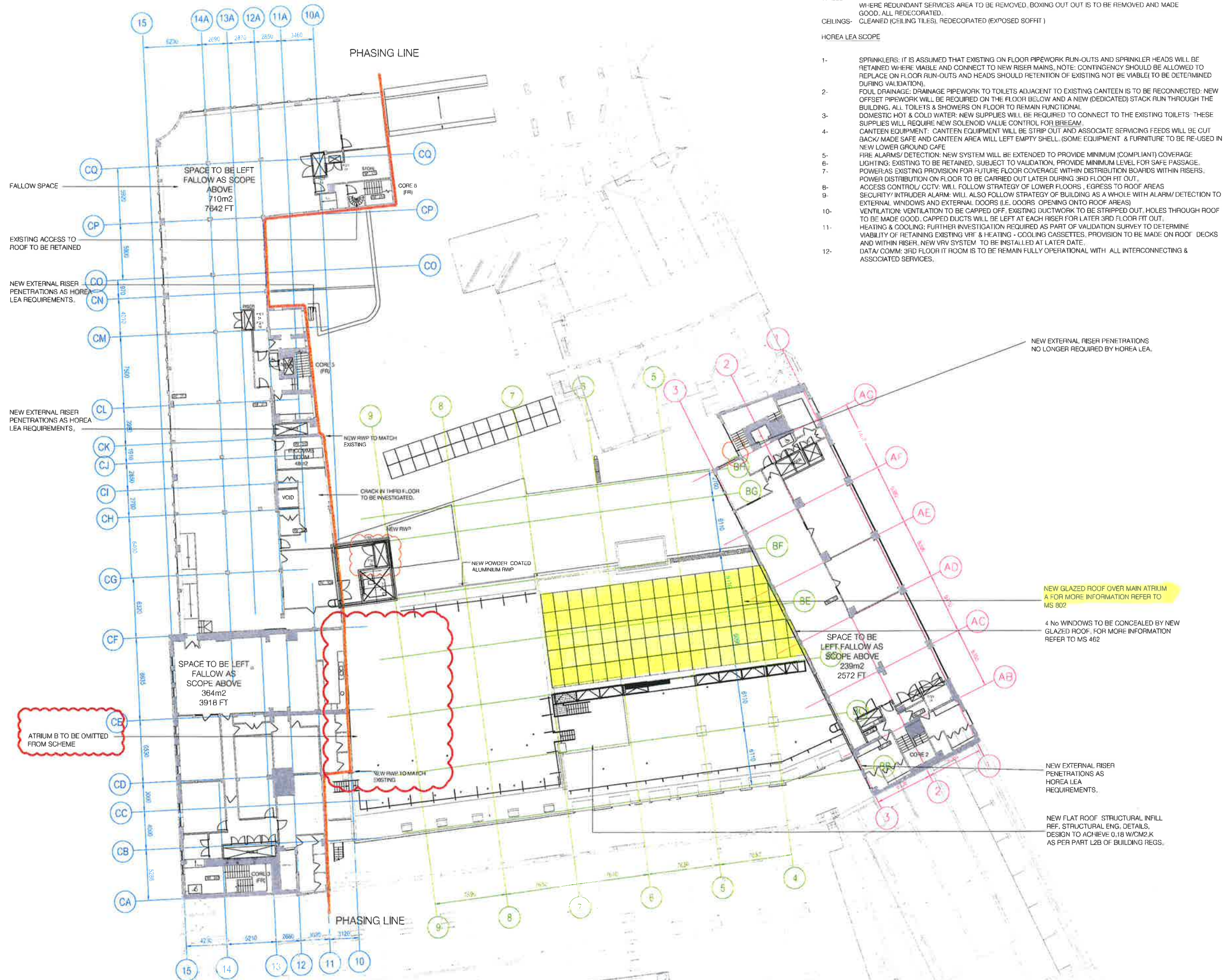
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Téléfax +33 3 88782107
E-Mail info@raico.fr
www.raico.fr

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Telefax +49 8265 911 100
E-Mail info@raico.at
www.raico.at

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Gosport, PO13 0FQ
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Fax +44 1329 848 701
E-Mail info@raico.org.uk
www.raico.eu

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5000 Aarau
Telefon +41 62 738 66 00
Telefax +41 62 738 66 01
E-Mail info@raico.ch
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RAICO East
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Office 8
129090 Moscow
Phone +7 495 9951159
Fax +7 495 9951159
E-Mail info@raico.ru
www.raico.ru

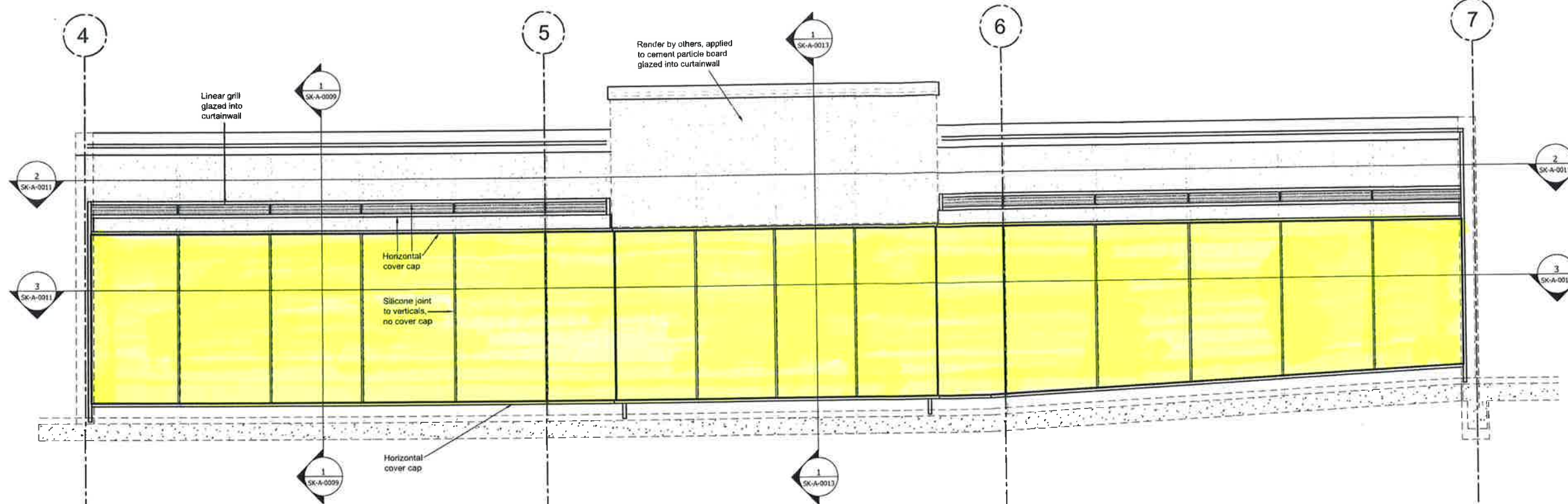


1	15/01/15	NEW EXTERNAL RISER PENETRATIONS	100	UK
2	15/01/15	NEW EXTERNAL RISER PENETRATIONS	100	UK
3	15/01/15	NEW EXTERNAL RISER PENETRATIONS	100	UK
4	15/01/15	NEW EXTERNAL RISER PENETRATIONS	100	UK
5	15/01/15	NEW EXTERNAL RISER PENETRATIONS	100	UK
6	15/01/15	NEW EXTERNAL RISER PENETRATIONS	100	UK
7	15/01/15	NEW EXTERNAL RISER PENETRATIONS	100	UK
8	15/01/15	NEW EXTERNAL RISER PENETRATIONS	100	UK
9	15/01/15	NEW EXTERNAL RISER PENETRATIONS	100	UK
10	15/01/15	NEW EXTERNAL RISER PENETRATIONS	100	UK
11	15/01/15	NEW EXTERNAL RISER PENETRATIONS	100	UK
12	15/01/15	NEW EXTERNAL RISER PENETRATIONS	100	UK
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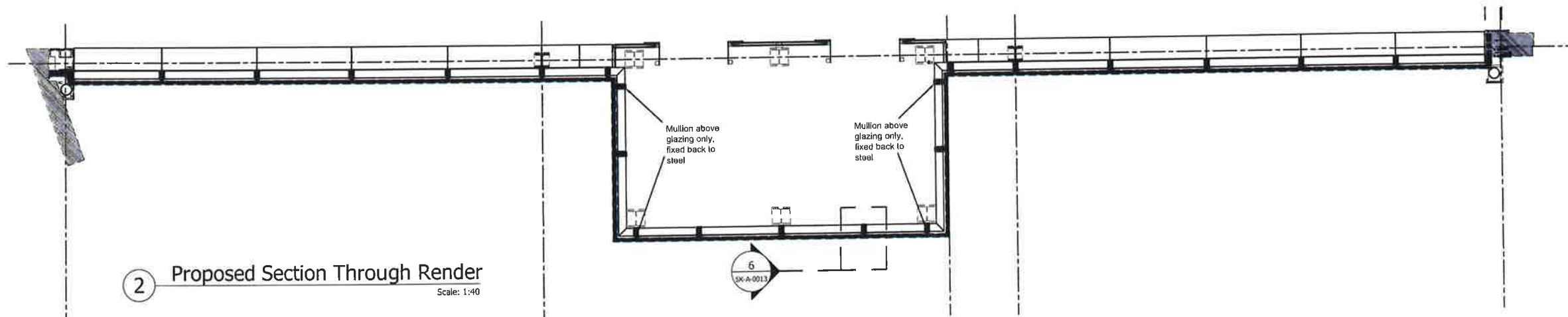
SAMPLE RECORD SHEET

Trade Package:	Glazing		
Sample No:	098		
Sample Type:	300x400mm low iron level 2 lift shaft glass comprising; 33.5m thick D.G.U (8mm toughened HST, 16mm cavity and 9.5mm toughened HST laminated glass).Complete with Sunguard coating.		
Photo:			
Signed off by:	Name:	Sample Signed: Yes/No	Date:
Comments			

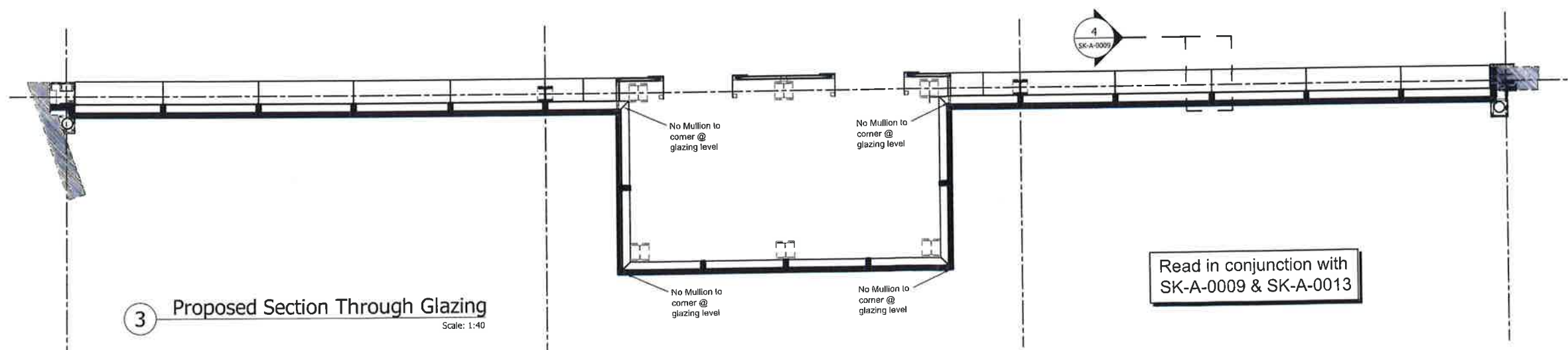
BW Input	
Comments	As Sample Schedule and Specification.



1 Proposed 2nd Floor Glazing Elevation
Scale: 1:40



2 Proposed Section Through Render
Scale: 1:40

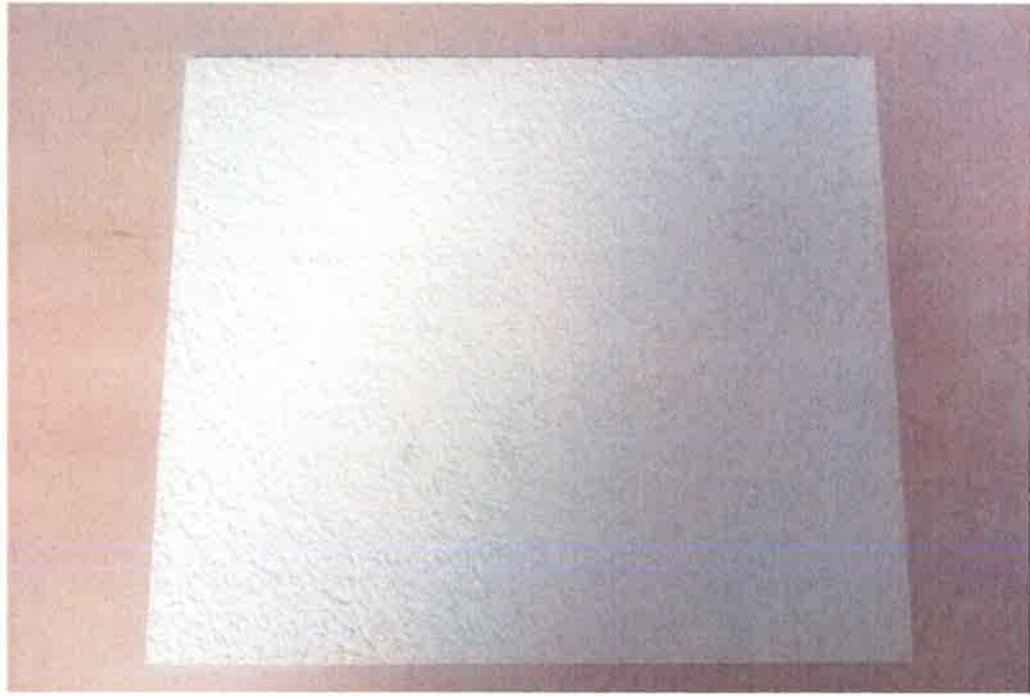


3 Proposed Section Through Glazing
Scale: 1:40

Read in conjunction with
SK-A-0009 & SK-A-0013

FC1	29-06-17	Issued for comment	BR	CB
Rev	Date	Description	Drawn	Checked
Status:				
For Comment				
OAG				
OAG LIMITED COURTYARD HOUSE WEST END ROAD HIGH WYCOMBE BUCKINGHAMSHIRE HP11 2QB		Tel: +44 (0) 1494 492700 Email: action@oag.uk.com Web: www.oag.uk.com © OAG Ltd 2016		
Project:				
Primark HQ, Reading				
Title:				
2nd Floor Glazing CW Grid Proposal				
Drawn: BR	Checked: DC	Scale @ A1:	Approved:	
Date: 28-06-17	Date: 29-06-17	As Noted	Date:	
Drawing No.:				Revision:
7464-OAG-XX-02-SK-A-0011				FC1

SAMPLE RECORD SHEET

Trade Package:	External Sto Render		
Sample No:	248		
Sample Type:	Sto Render Finish To Band Around Atrium & Lift Overrun		
Photo:			
Signed off by:	Name:	Sample Signed: Yes/No	Date:
Comments			

BW Input	
Comments	BW Submittal to Reading Planning.

| Facade | External wall insulation |



External Wall Insulation System Guide



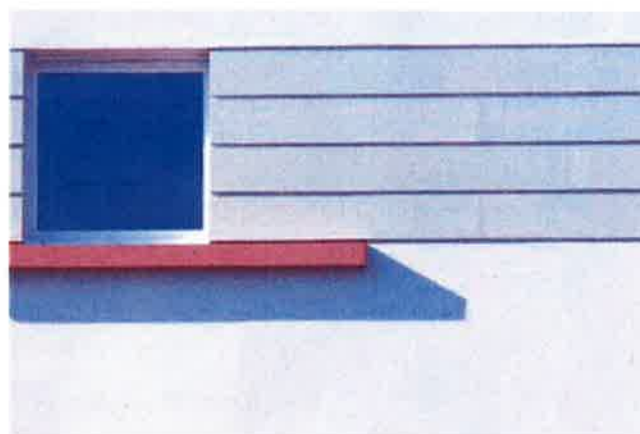
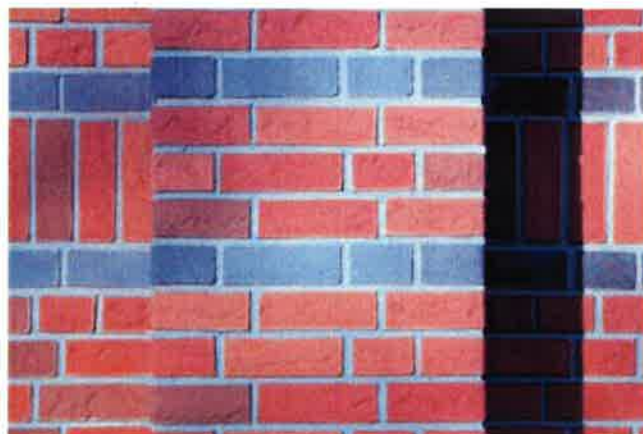


Substrate requirements

System	Fixing method	Substrate quality			
		Fair-face tolerance	Curved substrate	Sound substrate	Friable and unreliable
StoTherm Classic, StoTherm Mineral & StoTherm Vario	Adhesive fix	< 1 cm	●●	●●	●
	Mechanical fix	< 3 cm	●	●●	●●
StoVentec	Adjustable sub-construction	4-40 cm	●●	●●	●●

● Unsuitable ● Not ideal ●● Suitable





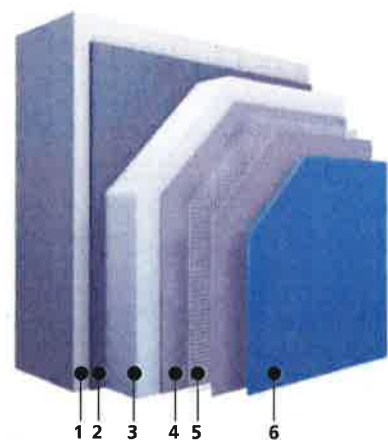
Sto Brick Slips

Manufactured from acrylic render, Sto Brick Slips can be custom made in any of the 800 colours of the StoColor System, and in a range of sizes and textures. They can also be custom made to match existing brickwork.

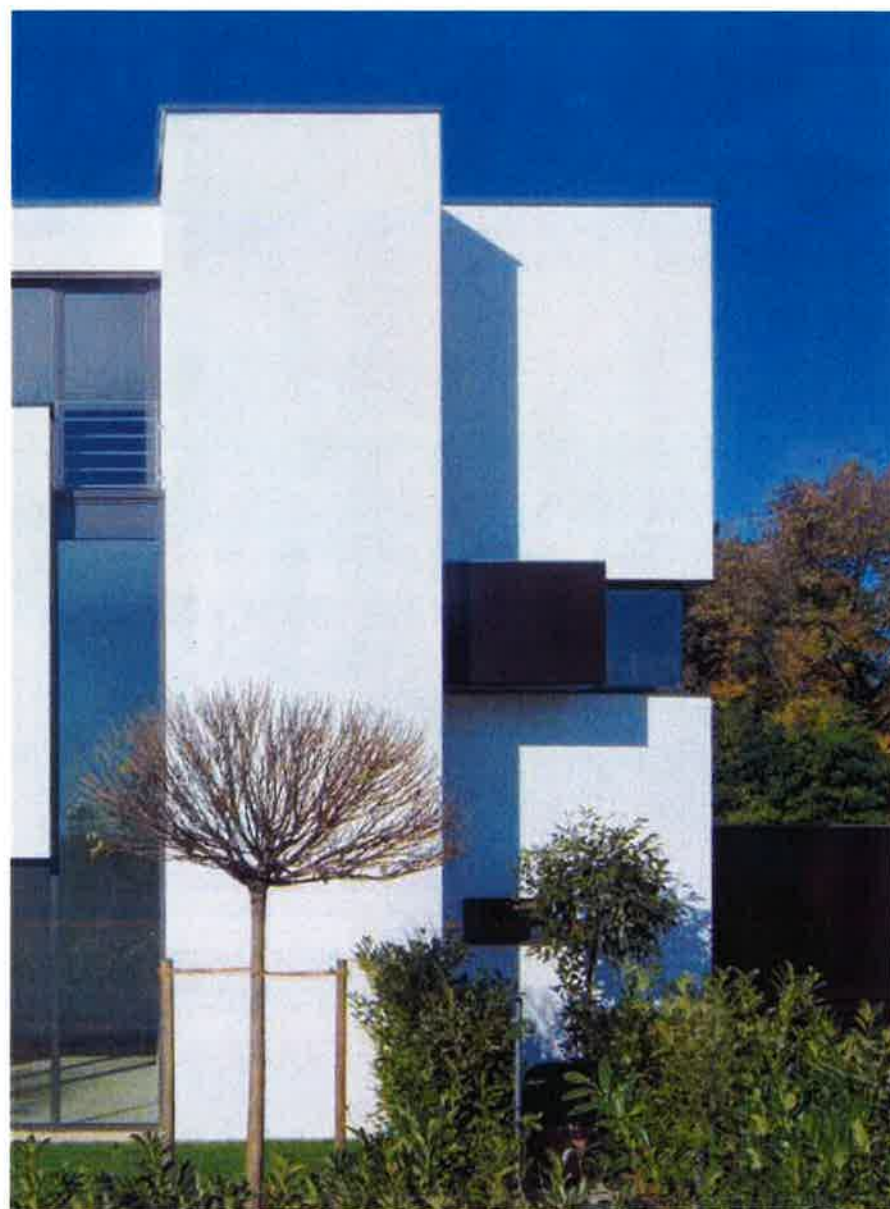
StoDeco Profiles

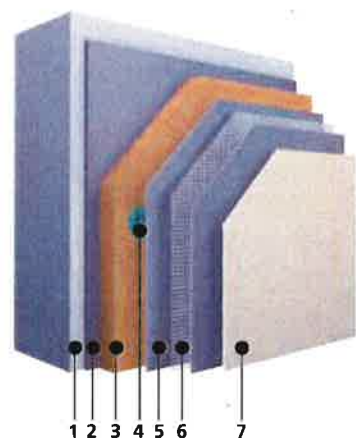
Whether you are replicating the profiles on a renovation project, or looking to create a contemporary, modern look, StoDeco Profiles are the ideal option to meet your requirements.

Made from Verofill, a lightweight, long-lasting material that is easy to form, StoDeco Profiles can be manufactured to individual specifications, including logos and other custom-created shapes.



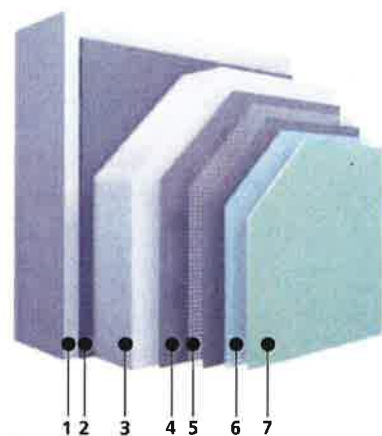
1. Substrate
2. Adhesive coat / mechanical rail system
3. Expanded polystyrene insulation board
4. Cement-free reinforcing coat
5. Reinforcing mesh
6. Decorative render finish





1. Substrate
2. Adhesive mortar
3. Mineral fibre board
4. Fixing dowel
5. Mineralic reinforcing coat
6. Glass fibre reinforcing mesh
7. Decorative render finish

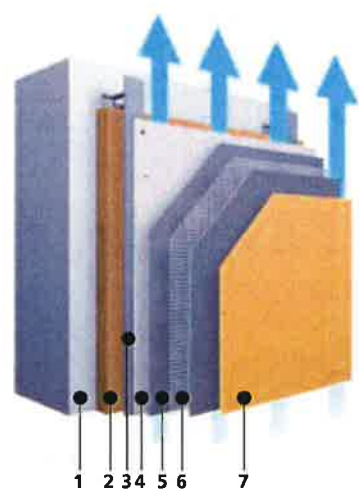




1. Substrate
2. Adhesive mortar
3. Expanded polystyrene insulation board
4. Reinforcing coat
5. Glass fibre reinforcing mesh
6. Intermediate priming coat
7. Decorative render finish

1 2 3 4 5 6 7





1. Substrate
2. Mineral fibre insulation board
3. Timber or aluminium sub-construction
4. Carrier board
5. Cement-free reinforcing coat
6. Glass fibre reinforcing mesh
7. Decorative render finish



Key insulation terms

Cold Bridge

Wherever a building element crosses through an externally-facing wall (e.g. floor and ceiling joints; door and window frames) heat can escape through the element. This is especially a problem in concrete and steel framed buildings. Where the temperature of the surface falls below the condensation point of the surrounding air, this can lead to condensation and mould growth inside the building, which is harmful to the health of the building occupants.

Cold Spot

Any part of an exterior-facing surface with a significantly lower thermal resistance than the surrounding area. This can lead to a blotchy appearance on a facade, particularly early in the morning.

U-Values

A calculation to determine how much thermal energy in Watts (W) is transported through a building material with the size of 1m² at a temperature difference of 1 Kelvin. The unit of measurement for U-values is W/(m²K). Achieving low U-values reduces the energy used to heat a building, which reduces energy bills and contributes towards saving energy. U-Values are measured in accordance with BS EN ISO 6946:1997.

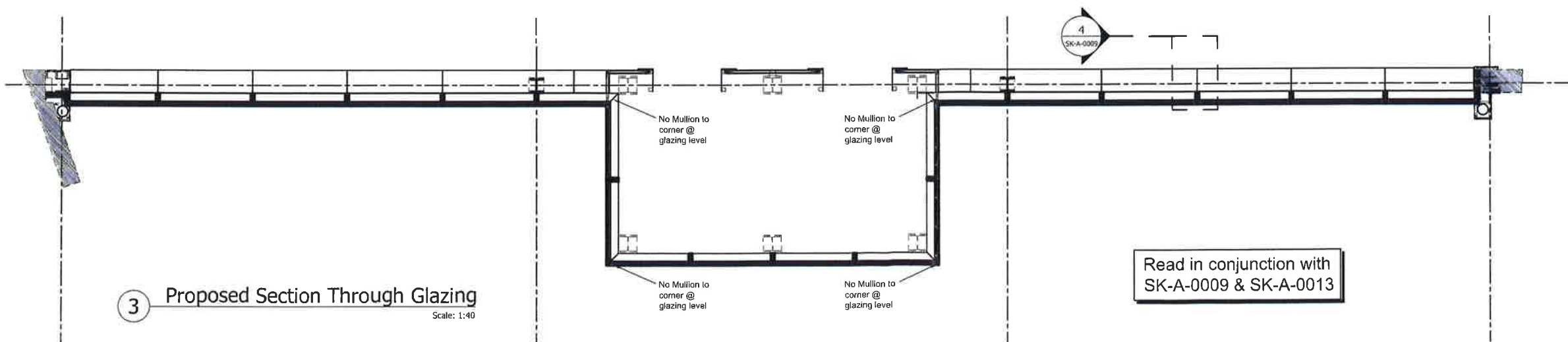
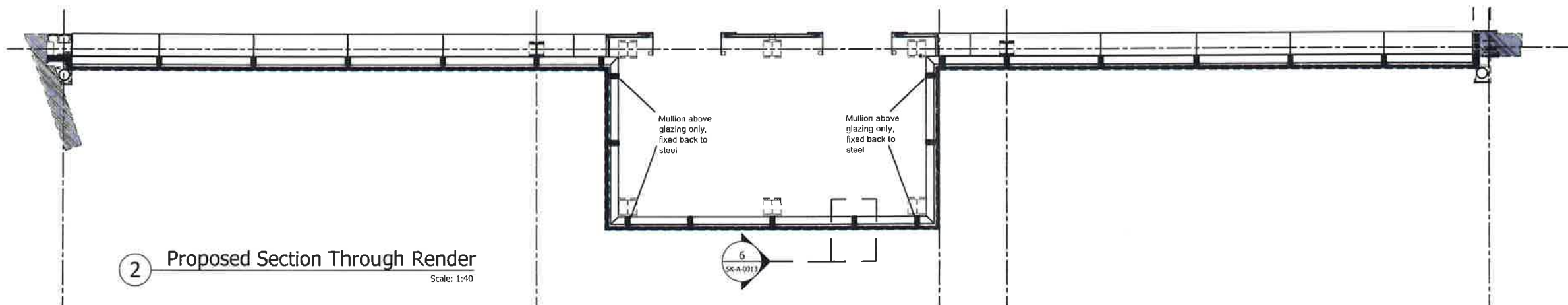
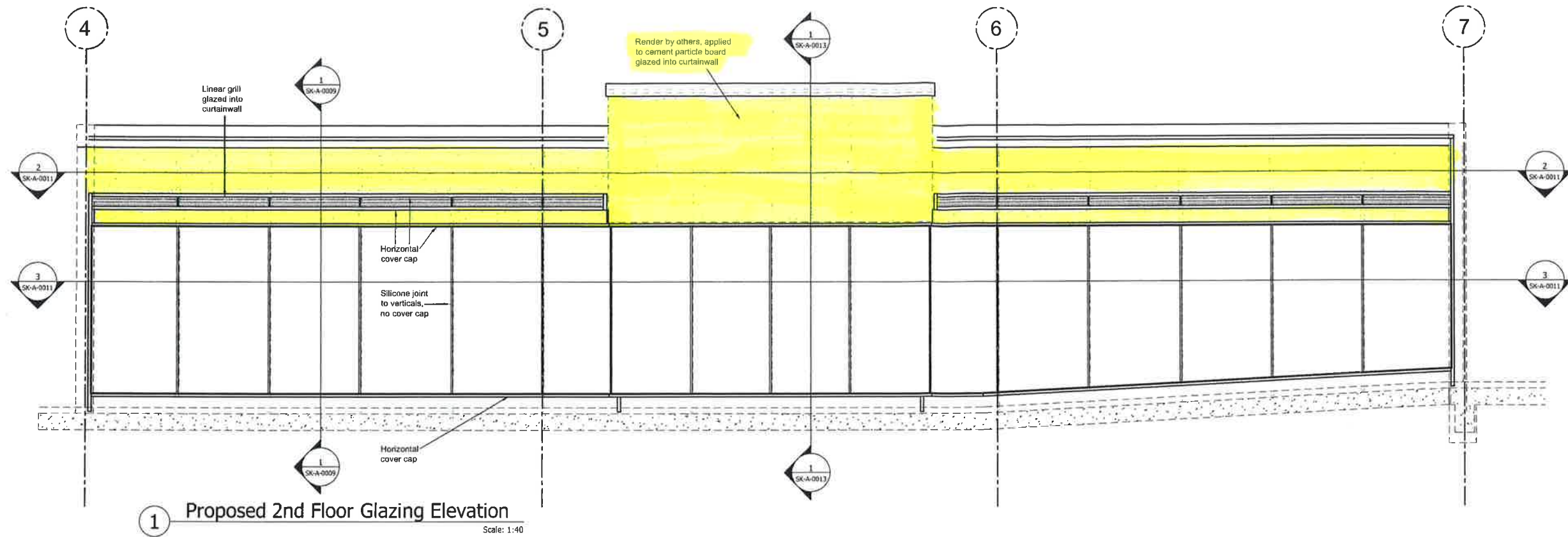
Building regulations

In the UK and Ireland, ongoing efforts to limit the use of natural fuel resources have been implemented through the UK Building Regulations. As part of the assessment, the Regulations specify maximum U-Values for new buildings. These values are different across the United Kingdom and Ireland, and are currently:

- **Part L (England, Wales, N. Ireland)**
0.35W/m²K
- **Part J (Scotland)**
0.3-0.27W/m²K
- **Part L (Eire)**
0.27W/m²K

Sto external wall insulation systems already meet or exceed the standards required by the UK Building Regulations.





Read in conjunction with
SK-A-0009 & SK-A-0013

FC1	29-06-17	Issued for comment	BR	CB
Rev	Date	Description	Drawn	Checked
Status:				
For Comment				
				
OAG LIMITED COURTYARD HOUSE WEST END ROAD HIGH WYCOMBE BUCKINGHAMSHIRE HP11 2QB			Tel: +44 (0) 1494 492700 Email: action@oag.uk.com Web: www.oag.uk.com © OAG Ltd 2016	
Project:				
Primark HQ, Reading				
Title:				
2nd Floor Glazing CW Grid Proposal				
Drawn: BR	Checked: DC	Scale @ A1: As Noted	Approved:	
Date: 28-06-17	Date: 29-06-17		Date:	
Drawing No.:				Revision:
7464-OAG-XX-02-SK-A-0011				FC1

SAMPLE RECORD SHEET

Trade Package:	Roof Felt & Membrane		
Sample No:	249		
Sample Type:	Applied Roof Felt to Flat Roof of Primark		
Photo:			
Signed off by:	Name:	Sample Signed: Yes/No	Date:
Comments			

BW Input	
Comments	BW Submittal to Reading Planning.



Proteus
Waterproofing

PRO-FELT ENDURA MINERAL 5.8

DATASHEET

Description

Pro-Felt Endura is a high performance, reinforced premium membrane engineered to perform in the harshest weather conditions. Pro-Felt Endura is highly elastomeric and excels as a direct waterproofing overlay to existing substrates, or as a system element of the robust Proteus built-up roof system, incorporating Pro-Therm insulation.

Manufactured in Switzerland by the country's market leader in felt technology, Pro-Felt has been designed to provide market leading performance at extreme temperatures at high altitudes.

With its very high quality SBS (Styrene Butadiene Styrene) modified bitumen content, Pro-Felt Endura retains its high elastomeric ability and performance and ensures the roof is protected by a durable and lasting waterproofing membrane.

Pro-Felt Endura also has a special chemical additive which allows it to be used on roofs that suffer with standing water due to inadequate or back falls, or zero falls, which are often encountered in refurbishment overlays.

Key features

- Up to 25 Year Single layer overlay or 30 Year BUR Application
- Suitable for roofs with inadequate or zero falls and ponding water
- Suitable for green and living roof applications
- Requires very little heat providing fast installation times
- Extremely robust, heavy duty 5.8kg/m² product with ultra high tensile strength
- Capable of withstanding permanently sited loads of up to 2000kg/m²
- Tested to -25°C, and able to withstand climatic extremes
- Black mineral finish
- Pro-Felt Self-Adhesive underlay film minimises flame requirement
- Single point & Insurance backed guarantees

CE marking



Certificate No. : 1370-CPR-0543

Application conditions

Surface Preparation: All surfaces to receive Pro-Felt Endura capsheets must be dry, clean and free of dust or other contaminants which may affect adhesion. Remove all sharp protrusions such as fixings, chippings, etc. Priming is recommended on existing substrates where single layer overlays are being installed with Proteus Pro-Prime Bitumen.

Proteus Industrial Technologies Ltd.
21a Sirdar Road, Brook Road Industrial
Estate, Rayleigh, Essex SS6 7XF

Tel: 01268 777871
Fax: 0845 299 1215
Email: office@proteuswaterproofing.co.uk
www.proteuswaterproofing.co.uk



Application conditions continued

Application: Pro-Felt Endura capsheets are installed with a roofing torch, either onto existing substrates in overlay situations or onto a Pro-Felt Underlay in built up roofing.

Ensure the membrane is fully bonded. All lap joints must be completely sealed, with a continuous 5mm bitumen bead extruding from all laps. Side laps to be a minimum of 80mm. End laps a minimum of 100mm. The membranes are to be laid down the line of any slope. The lap-joints should not form a water check.

- When used as a single layer overlay, an underlay is introduced at all details including vertical details.
- Used as an ultra high performance capsheet in conjunction with Pro-Felt underlays and built-up roof systems.
- Pro-Felt capsheets are available with a sanded or mineral finish, and suitable for both refurbishment and new build projects.
- The range includes cold installed, self-adhesive layers.
- Contact Proteus Waterproofing for bespoke specifications.

Technical information

Specifications	Standard	Units	Values (Tolerance)
Length	EN 1848-1	m	8 (MDV $\pm$ 0.5 %)
Width	EN 1848-1	m	1.00 (MDV $\pm$ 1 %)
Nominal weight of the product	EN 1848-1	Kg/m ²	5.80 (MDV $\pm$ 1 %)
Thickness (selvedge)	EN 1849-1	Mm	4.10 (MDV $\pm$ 5 %)
Visible defects	EN 1850-1	-	None
Straightness	EN 1848-1	mm / 10m	$\leq$ 20
Flexibility at low temperature	EN 1109	°C	$\leq$ -25
Flow resistance at elevated temperature	EN 1110	°C	$\geq$ 100
Maximum tensile force	EN 12311-1	N / 50mm	long.: 900 transv.: 700 (VDF -15%)
Elongation	EN 12311-1	%	long.: 30 transv.: 30 (VDF -15%)
Dimensional stability	EN 1107-1	%	$\leq$ 0.5
Artificial aging behaviour at low temperature flexing	EN 1296	°C	$\leq$ -25
Artificial aging creep resistance at elevated temperature	EN 1296	°C	$\geq$ 100
Reaction to fire	EN 13501-1	-	E
Watertightness	EN 1928 method A	-	N/A
Resistance to static loading	EN 12730	kg	$\geq$ 20 (VLF)
Resistance to impact	EN 12691	mm	1000 (VLF)
Resistance to tearing (nail shank)	EN 12310-1	N	N/A
Resistance to root penetration	EN 13948	-	Passed
Adhesion to granules	EN 12039	%	N/A

Proteus Industrial Technologies Ltd.

21a Sirdar Road, Brook Road Industrial Estate, Rayleigh, Essex S56 7XF

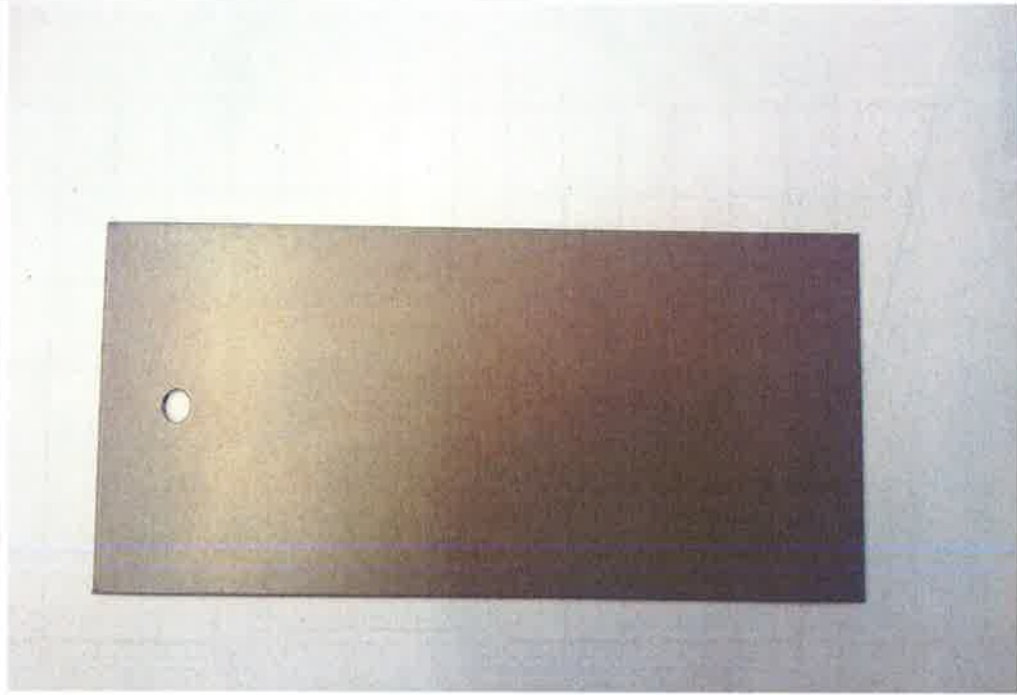
Tel: 01268 777871

Fax: 0845 299 1215

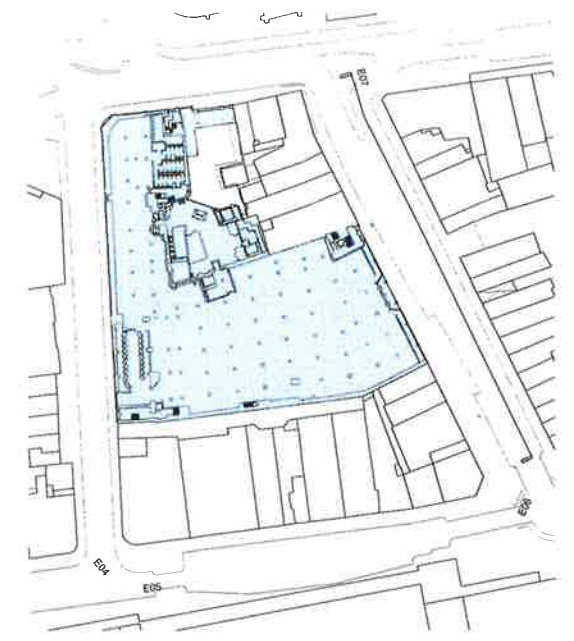
Email: office@proteuswaterproofing.co.uk

www.proteuswaterproofing.co.uk

SAMPLE RECORD SHEET

Trade Package:	West Street Shopfronts & Cladding by Cannon Glass		
Sample No:	250		
Sample Type:	Metal Cladding to West Street Column Cladding and Stall Risers.		
Photo:			
Signed off by:	Name:	Sample Signed: Yes/No	Date:
Comments			

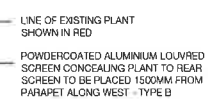
BW Input	
Comments	BW Submittal to Reading Planning.



Continues on elevation 07b

PROPOSED RETAIL
ENTRANCE

FOR MORE INFORMATION ON
RETAIL ENTRANCE REFER TO
MFG 5473



LIGHTING CONDUCTION SYSTEM
TO BE RENEWED

EXISTING SIGNAGE AND ALL
REDUNDANT CABLES TO
BE REMOVED

LIGHTING CONDUCTION SYSTEM
TO BE RENEWED

TWO NEW FINAL ESCAPE DOORS TO BSPS24
TO MEET SECURE BY DESIGN STANDARDS
REFER TO NBS SPECIFICATION L20/ 481

NEW POWDER COATED METAL
LININGS AND LOW IRON GLAZING
IN EXISTING OPENING

DISCRETE SIGNAGE LOCATED ON THE

PROPOSED PRIMARY HQ OFFICE ENTRANCE NEW
POWDER COATED METAL LININGS FRAMING NEW
REVOLVING DOORS AND AUTOMATED DDA
COMPLIANT PASS DOORS EITHER SIDE REFER TO
MS 540 - 541

02 ELEVATION 07b

V	1200 HRS	60000 HRS/WORKWEEK	60000	12
W	2200 HRS	110000 HRS/WORKWEEK	110000	22
E	1200 HRS	60000 HRS/WORKWEEK	60000	12
S	1200 HRS	60000 HRS/WORKWEEK	60000	12
T	1200 HRS	60000 HRS/WORKWEEK	60000	12
B	1200 HRS	60000 HRS/WORKWEEK	60000	12
A	2000 HRS	100000 HRS/WORKWEEK	100000	20
F	2000 HRS	100000 HRS/WORKWEEK	100000	20
City	Dayton	Dayton, OH	Dayton, OH	Dayton, OH

eySmith
MoreySmith
nith

DE LANGENHUIS PIANO
LONDON SET 1HF
Telephone 020 7089 1470
Fax 020 7378 1274
Email info@moray.co.uk
www.moray.com

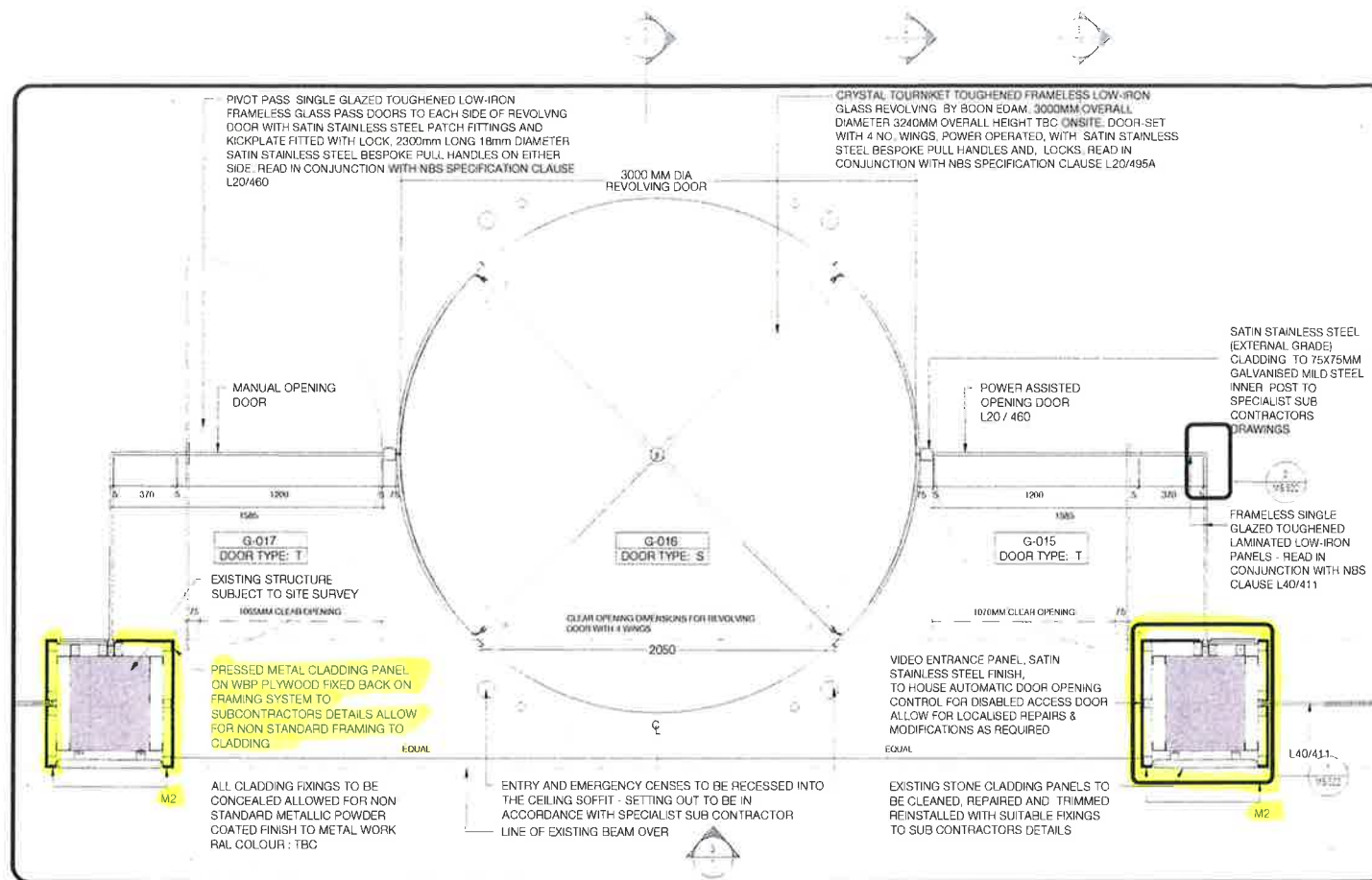
FOR CONTRACT

PRIMARK
UK HEAD OFFICE REFURBISHMENT
READING

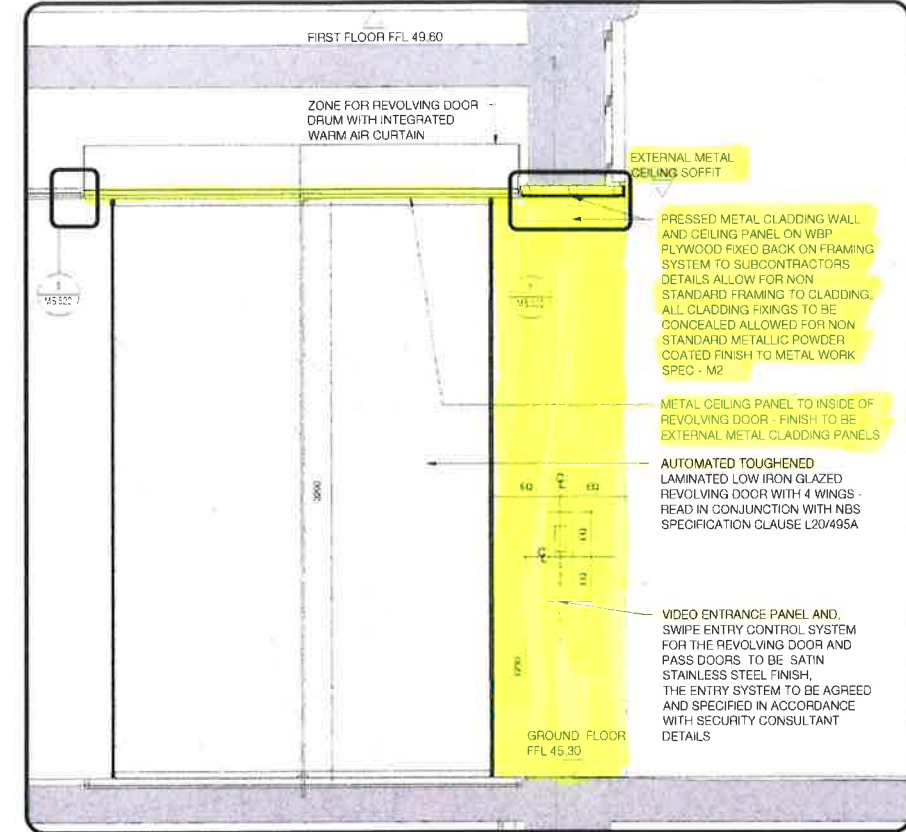
PROPOSED STREET ELEVATIONS
WEST STREET
ELEVATIONS 07a AND 07b

Warning: not to be scaled (except for Plotting) imposed

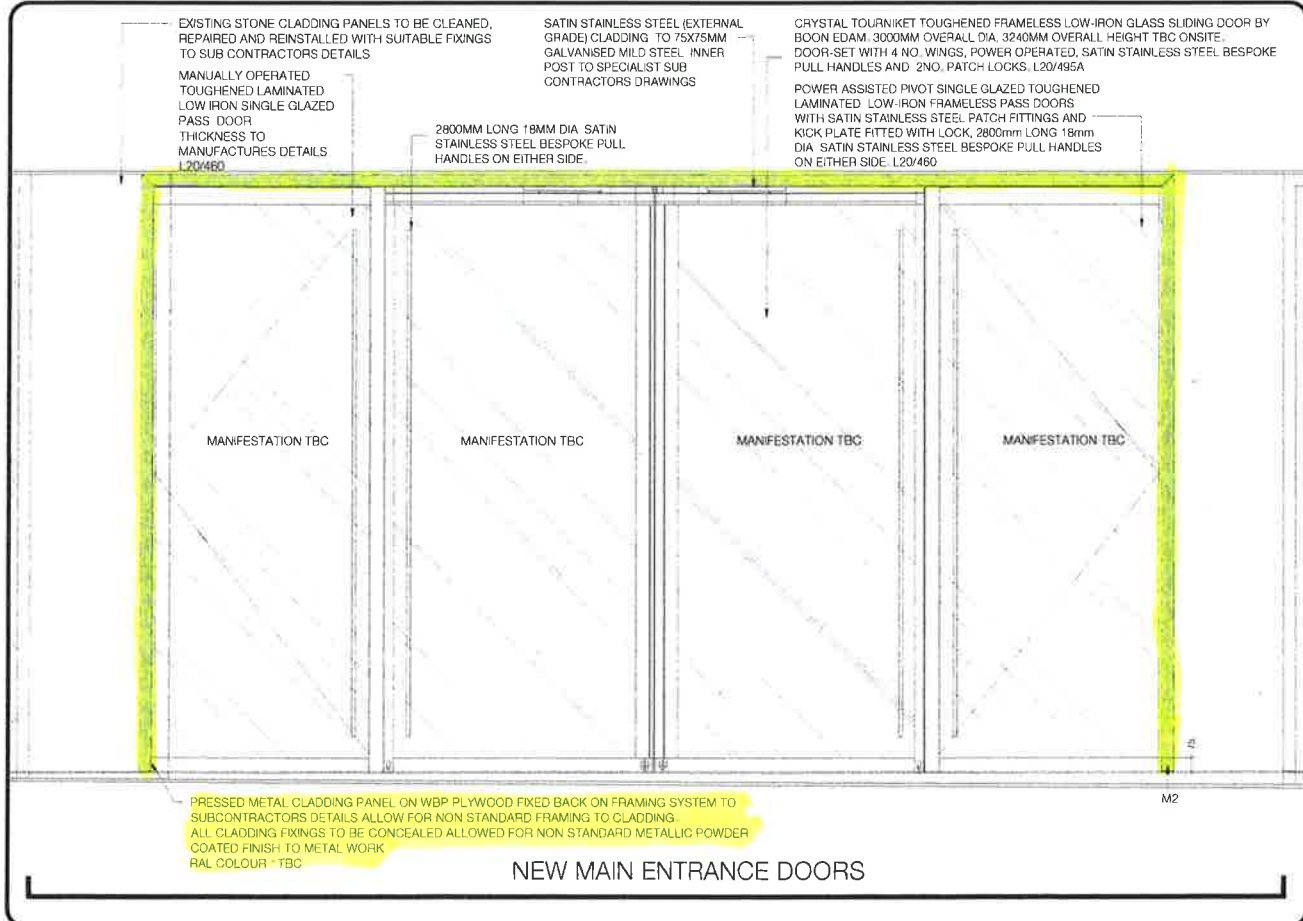
MS752 R-F



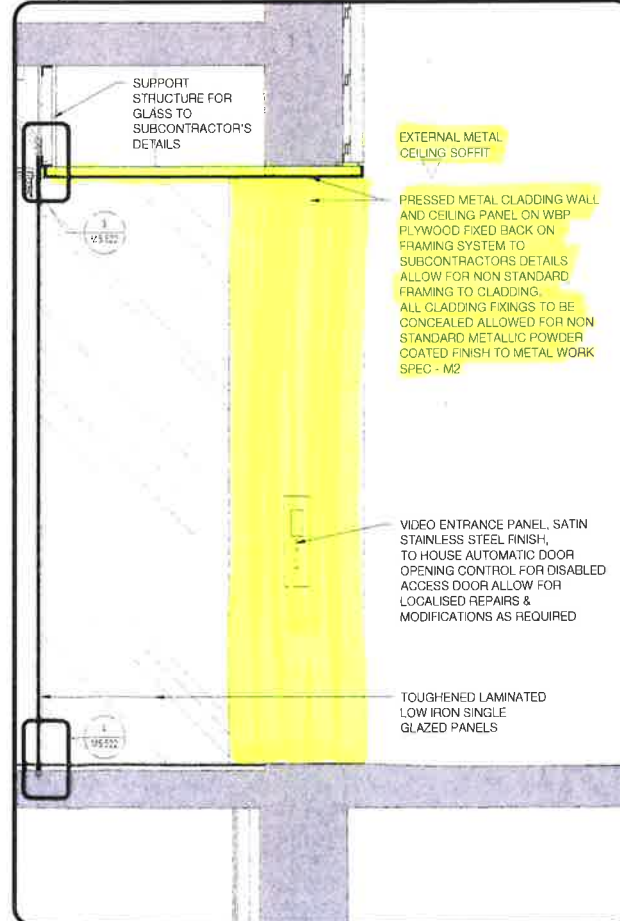
1 MAIN ENTRANCE DOOR PLAN
SCALE 1:20 @ A1



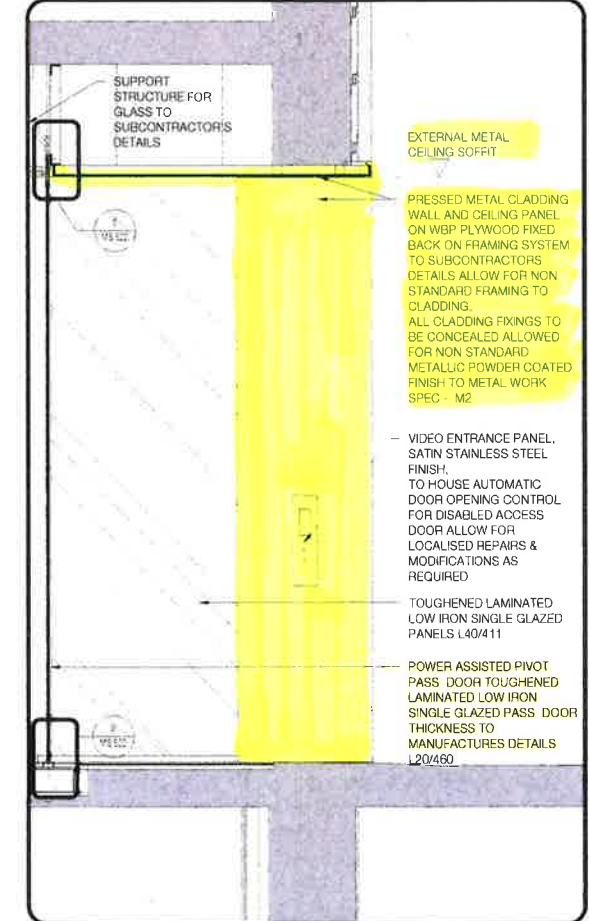
2 SECTION 01
SCALE 1:20 @ A1



3 ENTRANCE DOOR ELEVATION
SCALE 1:20 @ A1



4 SECTION 4
SCALE 1:20 @ A1



5 SECTION 5
SCALE 1:20 @ A1

NOTE
ALL DIMENSIONS TO BE VERIFIED ON SITE
PRIMARK TO CONFIRM ACCESS / SWIPE
CARD REQUIREMENTS TO REVOLVING
DOORS AND PASS DOORS
RAMBOLL AND SITE INVESTIGATION TO
CONFIRM IF RECESS FOR PIVOT FLOOR
BOX CAN BE ACCOMMODATED

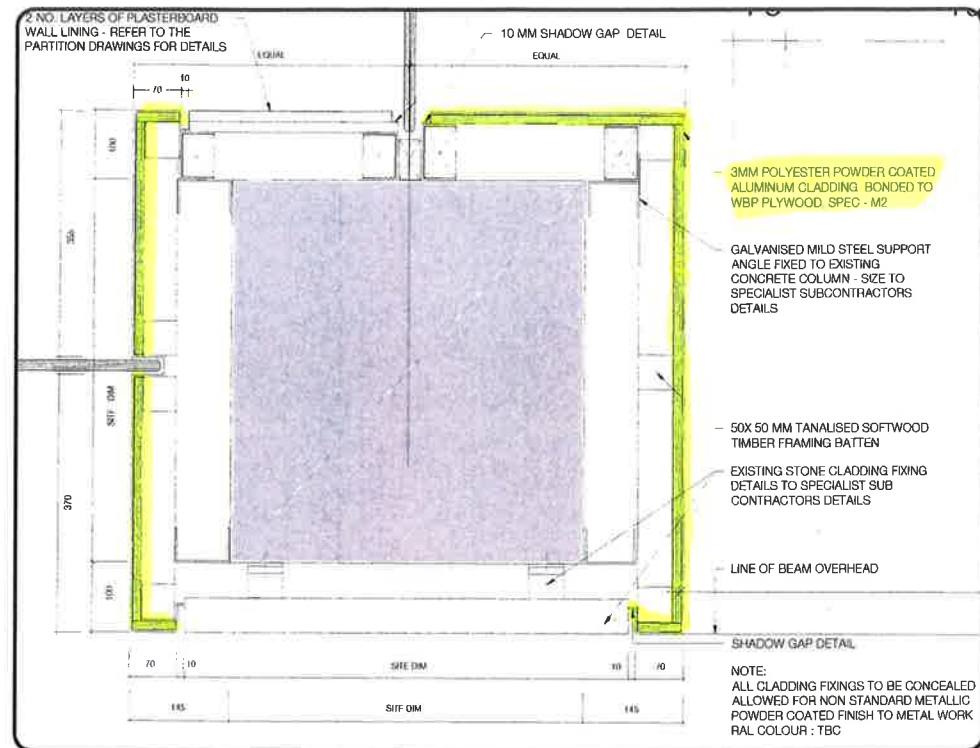
OWNER: BRIDGES CONTRACT	REV: 01
DESIGN: BRIDGES CONTRACT	REV: 01
ARCHITECT: BRIDGES CONTRACT	REV: 01
STRUCTURAL: BRIDGES CONTRACT	REV: 01
MECHANICAL: BRIDGES CONTRACT	REV: 01
ELECTRICAL: BRIDGES CONTRACT	REV: 01
PLUMBING: BRIDGES CONTRACT	REV: 01
PAINT: BRIDGES CONTRACT	REV: 01
LANDSCAPE: BRIDGES CONTRACT	REV: 01
INTERIOR: BRIDGES CONTRACT	REV: 01
EXTERIOR: BRIDGES CONTRACT	REV: 01
FINISHES: BRIDGES CONTRACT	REV: 01
DETAILS: BRIDGES CONTRACT	REV: 01
CONSTRUCTION: BRIDGES CONTRACT	REV: 01
INSTALLATION: BRIDGES CONTRACT	REV: 01
MAINTENANCE: BRIDGES CONTRACT	REV: 01
OPERATION: BRIDGES CONTRACT	REV: 01
DECOMMISSION: BRIDGES CONTRACT	REV: 01

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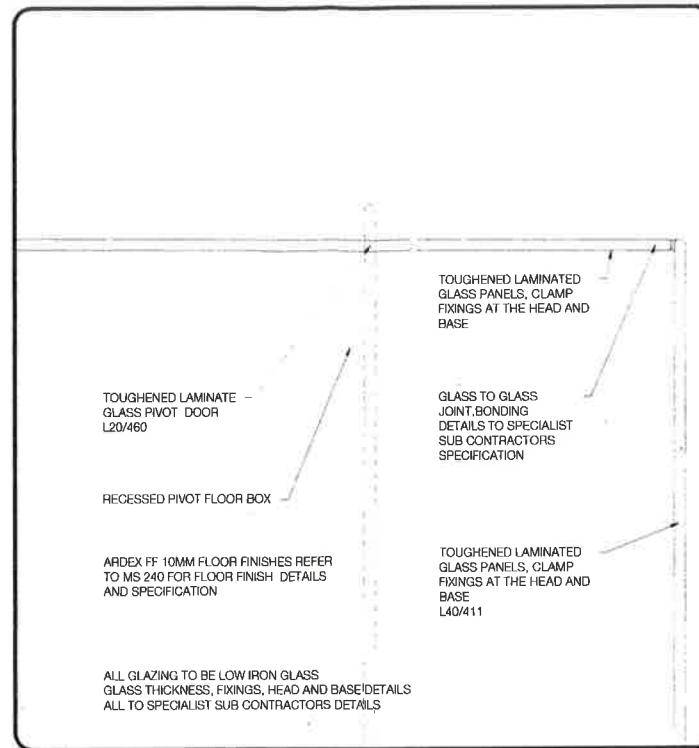
For Contract
12/01/2024
PRIMARK
UK HEAD OFFICE REFURBISHMENT
READING

GROUND FLOOR
MAIN ENTRANCE
REVOLVING DOOR PLAN, ELEVATION
AND TYPICAL SECTION

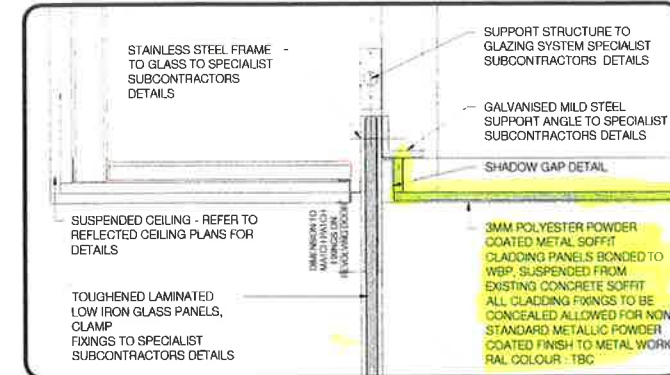
Drawing not to be scaled. All dimensions to be checked on site. Any discrepancies must be reported to the designer immediately. © MoreySmith



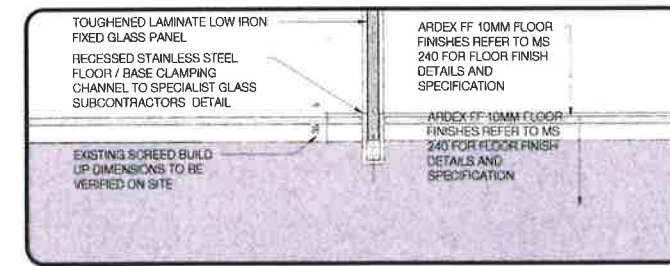
1 COLUMN CLADDING
SCALE 1:5 A1



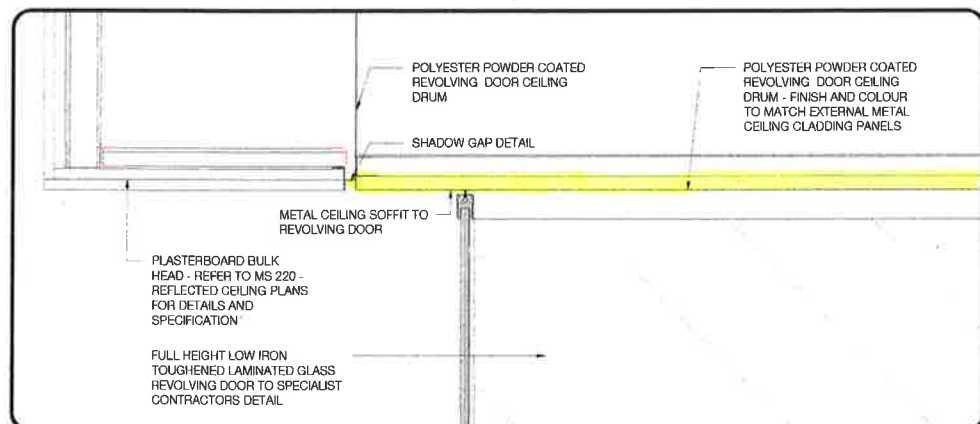
2 GLASS TO GLASS JUNCTION
SCALE 1:5 A1



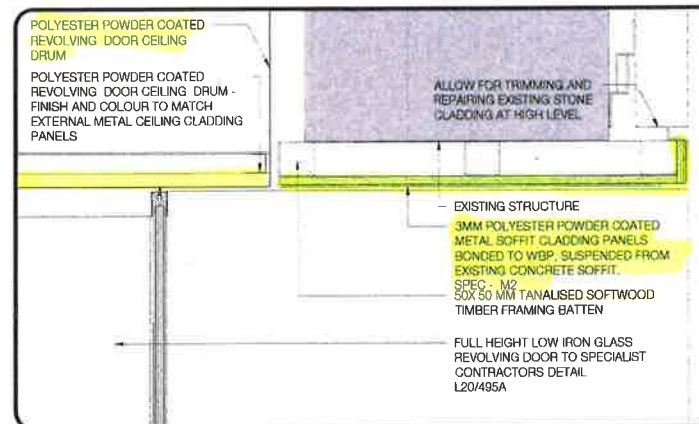
3 FIXED GLASS HEAD DETAIL
SCALE 1:5 A1



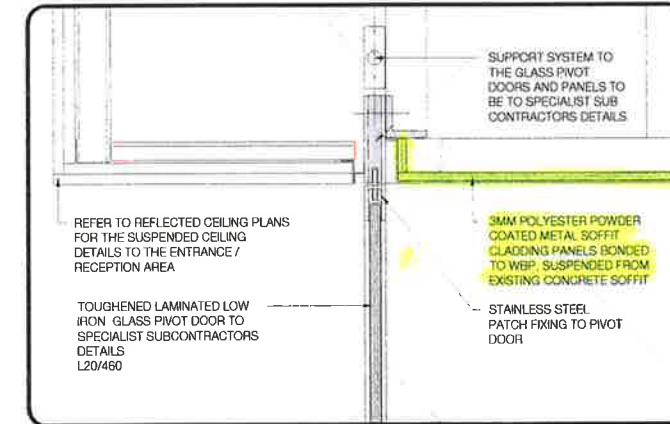
4 FIXED GLASS RECESSED FLOOR / BASE DETAIL
SCALE 1:5 A1



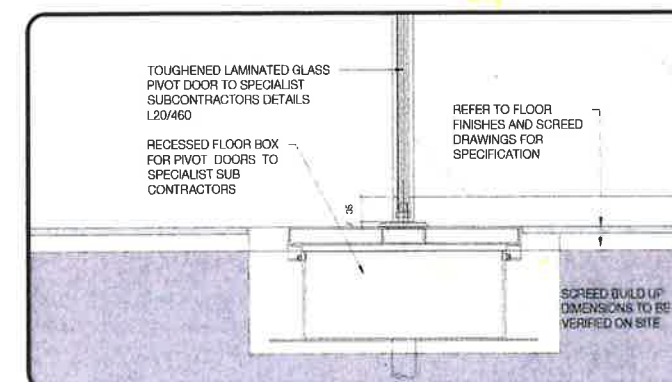
5 CEILING TO REVOLVING DOOR JUNCTION
SCALE 1:5 A1



7 METAL CEILING CLADDING TO REVOLVING DOOR JUNCTION
SCALE 1:5 A1



8 GLASS PIVOT DOOR HEAD DETAIL
SCALE 1:5 A1



9 RECESSED PIVOT GLASS DOOR FLOOR BOX DETAIL
SCALE 1:5 A1

NOTE
ALL DIMENSIONS TO BE VERIFIED ON SITE

PRIMARK TO CONFIRM ACCESS / SWIPE CARD REQUIREMENTS TO REVOLVING DOORS AND PASS DOORS

RAMBOLL AND SITE INVESTIGATION TO CONFIRM IF RECESS FOR PIVOT FLOOR BOX CAN BE ACCOMMODATED

1	1200x1800x1800	100	10
2	1200x1800x1800	100	10
3	1200x1800x1800	100	10
4	1200x1800x1800	100	10
5	1200x1800x1800	100	10
6	1200x1800x1800	100	10
7	1200x1800x1800	100	10
8	1200x1800x1800	100	10
9	1200x1800x1800	100	10

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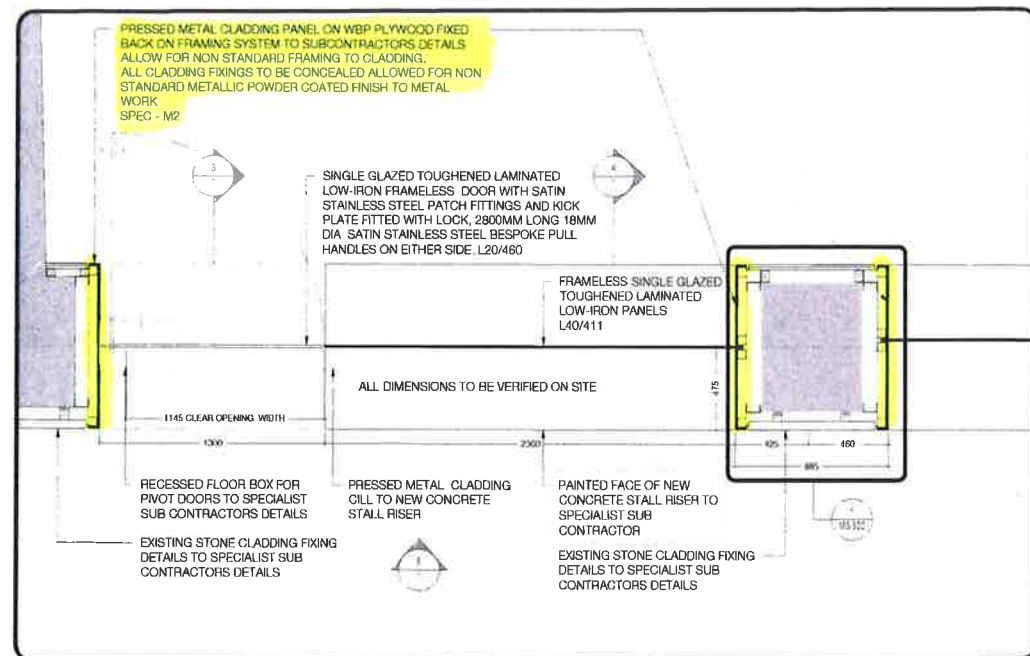
FOR CONTRACT

PRIMARK
UK HEAD OFFICE REFURBISHMENT
READING

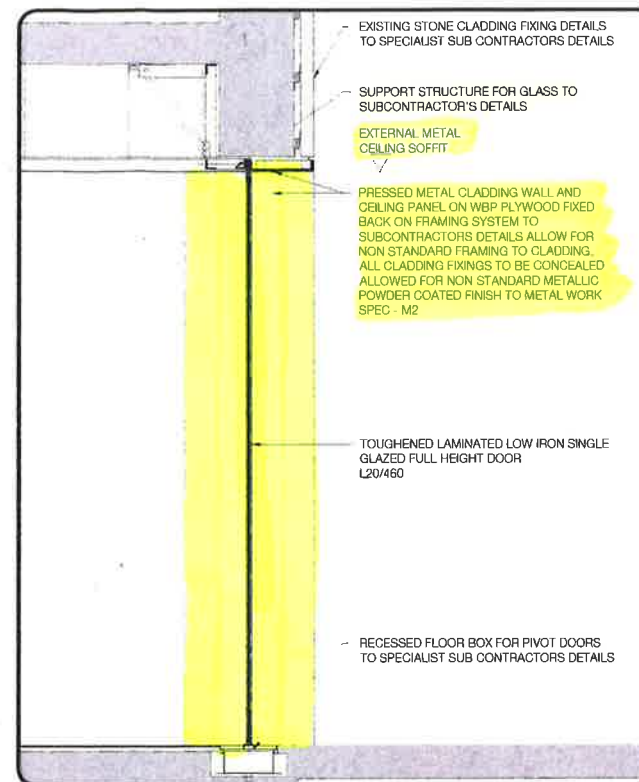
GROUND FLOOR
MAIN ENTRANCE
REVOLVING DOOR
INTERFACE DETAILS

Scale 1:5
Drawing not to be scaled. Except for the following:
At dimensions to be checked on site. Any discrepancies
must be reported to the designer immediately. (MS/eySmith)

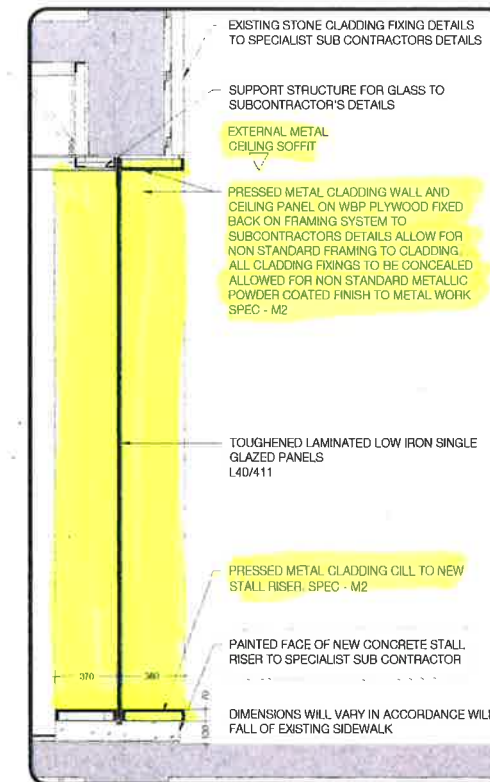
MS 541RB



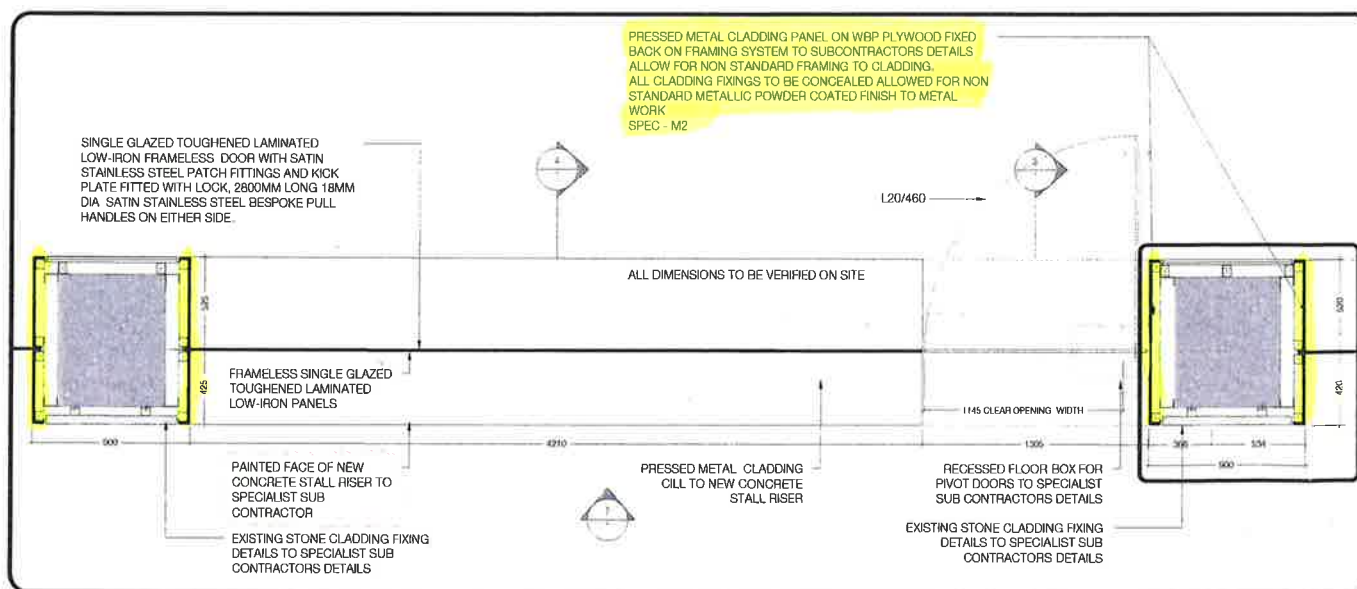
1 RETAIL UNIT 1 ENTRANCE DOOR PLAN
SCALE 1:50 @ A1



3 SECTION 01
SCALE 1:20 @ A1



4 SECTION 01
SCALE 1:20 @ A1



2 RETAIL UNIT 2 ENTRANCE DOOR PLAN
SCALE 1:50 @ A1

NOTE
ALL DIMENSIONS TO BE VERIFIED ON SITE

PRIMARK TO CONFIRM ACCESS / SWIPE CARD REQUIREMENTS TO REVOLVING DOORS AND PASS DOORS

RAMBOLL AND SITE INVESTIGATION TO CONFIRM IF RECESS FOR PIVOT FLOOR BOX CAN BE ACCOMMODATED

1	WEEK 10/20/2020	W1	W1
2	WEEK 10/20/2020	W1	W1
3	WEEK 10/20/2020	W1	W1

Rev. Date. Quantity. By. Checked

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FOR CONTRACT

PRIMARK
UK HEAD OFFICE REFURBISHMENT
READING

GROUND FLOOR
RETAIL ENTRANCE DOORS
SINGLE GLAZED PASS DOORS
PLANS, SECTIONS AND ELEVATIONS SHT 1 OF 2

Drawings not to be scaled (Except for Planning Purposes)
All dimensions to be checked on site. Any discrepancies must be reported to the designer immediately. ©MoreySmith

MS542RA