



MONEYPENNY OFFICE PROJECT
EXTERNAL FINISHES DOCUMENT

October 2015

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1.1 External Visuals Front



1.1 External Visuals Rear

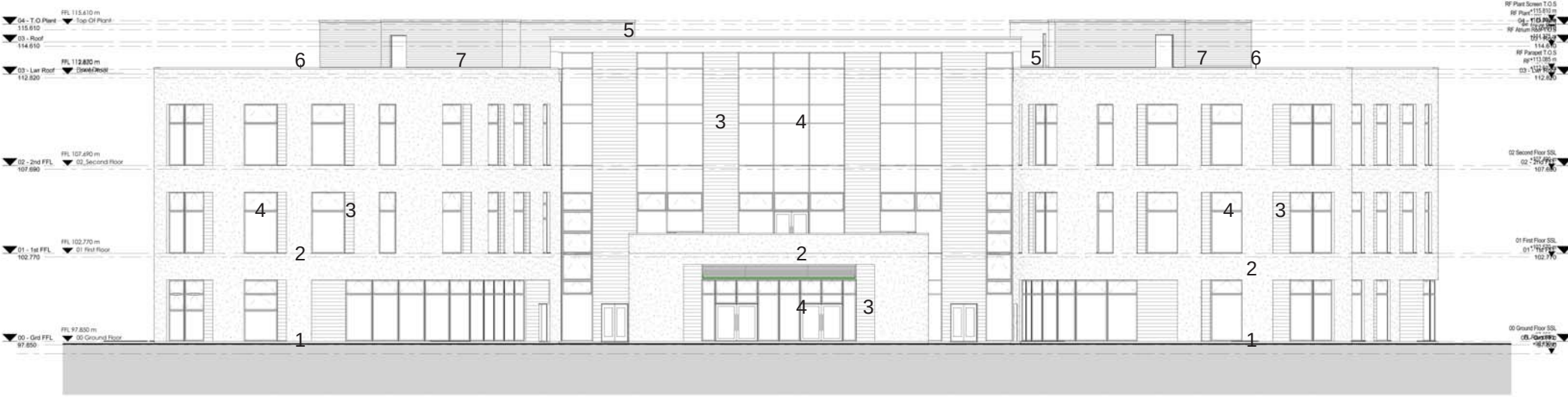


2.1 External Elevations North East and South West



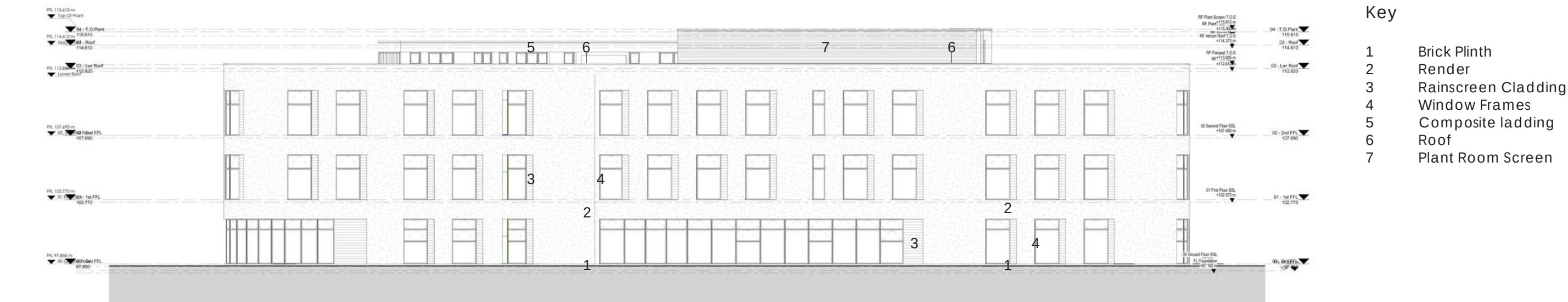
- Key
- 1 Brick Plinth
 - 2 Render
 - 3 Rainscreen Cladding
 - 4 Window Frames
 - 5 Composite Cladding
 - 6 Roof
 - 7 Plant Room Screen

North East Elevation
Scale @ 1 : 100

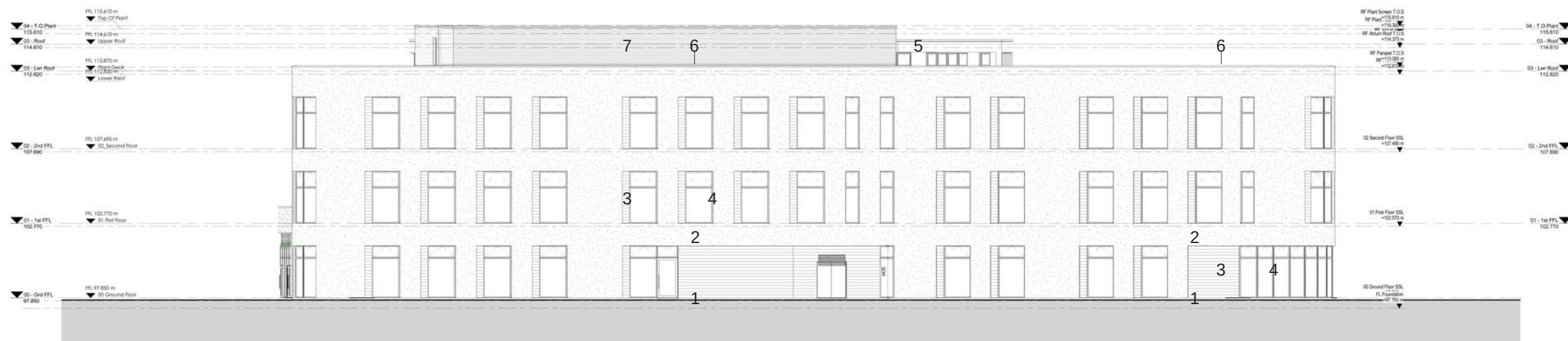


South West Elevation
Scale @ 1 : 100

2.2 External Elevations North West and South East



2 North West Elevation
Scale @ 1:100



1 South East Elevation
Scale @ 1:100

3.1 Main Building External Finishes
Brick Plinth

IBSTOCK

DECLARATION OF PERFORMANCE

Cottbus Blue Brindle Best A5052A

Declaration includes Special Shapes listed in BS4729 and Ibstock variants to Category II System 4
 Intended use or uses of the construction product, in accordance with the applicable harmonized technical specification, as foreseen by the manufacturer: Facing and rendered masonry, load bearing or non-loadbearing masonry structures including internal linings and partitions for building and civil engineering.

Unprotected Masonry for use in U

Registered Office

Ibstock Brick Limited, Leicester Road, Ibstock Leicestershire, LE67 6HS

Attestation of conformity 4

Declared Performance Essential Characteristics	Performance	Harmonised Technical Specification	
Dimensions & tolerance mm	215x102x65	EN 771-1:2011	
	Tolerance		T1
	Range		R1
Configuration	Vertically Perforated		
	Mesh		45
	Normalised		0
Compressive Strength (tested normal to the bed face of the unit) N/mm ²	Category		Cat II
	NPD		
Dimensional Stability mm/m ³	0.15		
Bond Strength fixed N/mm ²	S2		
Active Soluble Salts	Euro Class A1		
Reaction to Fire	6		
Water absorption %	50/100		
Water Vapour Permeability	1650		
Direct Airborne sound insulation Kg/m ² (Gross)	1.19		
Thermal Conductivity W/mK	F2		
Durability against freeze thaw	NPD		
Dangerous Substances			

The performance of the product is in conformity with the declared performance. This declaration of performance is issued under the sole responsibility of the manufacturer. Signed for and on behalf of the manufacturer by:

Derren Boskett - Technical Director
Ibstock Brick Limited

 Derren Boskett

Commission decision 2000/69/EC

EN 771-1:2011

Date correct since: 01/07/2013

For data prior to this date, please contact technical@ibstock.co.uk
 Downloaded: 13/10/2015



Location: Plinth around building perimeter from ground to ground floor slab level

Product Description: Exposed brick coursing up to ground floor slab level

Colour/ Finish: IBSTOCK Cottbus Blue Brindle

Manufacturer/Supplier: IBSTOCK

Contact: Ibstock
Leicestershire
LE67 6HS
UK
+44 (0) 844 800 4575

3.2 Main Building External Finishes
Render

Phone: 01189 635900, Email: enquiries@gruppoivas.co.uk, Web: www.aliva.co.uk

ALIVA FACADE SOLUTIONS UNITED KINGDOM

11. November 2014
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Documentation of the component
Thermal transmittance (U-value) according to Digest 465
Source: **own catalogue - External walls**
Component: **F14-841 Money Penny, Wrexham**

OUTSIDE

INSIDE

This illustration of inhomogeneous layers is provided only to assist in visualising the arrangement.

Assignment: External wall

	Manufacturer	Name	Thickness [m], number	Lambda [W/(mK)]	Q	R [m²K/W]
						0.0400
	Rse	IVAS Finish coat - Rivotone plus G15	0.0090	0.200	A	0.0100
✓	1	Gruppo IVAS	0.0060	0.580	C	0.0103
✓	2	Gruppo IVAS	0.0700	0.038	C	1.8421
✓	3	Gruppo IVAS	7/m²	50.000	D	-
	Fixings	M6 6mm diameter mild steel No./m²: equivalent diameter: 0.006 m / alpha: 0.800				
	Fixings	Level 1: dU* = 0.01 W/(m²K)	0.0050	0.580	A	0.0086
	Air gaps	IVAS Base coat - Klebocem	0.0120	0.470		0.0255
✓	4	Gruppo IVAS	0.1500	0.115		1.2682
✓	5	RCM	99.83 %	0.035	A	-
✓	6	Light steel-frame	2/m²	17.000	D	-
✓	6a	Gruppo IVAS	consisting of: Mineral Wool_Rainscr_(100-150mm)			
	Fixings	Vertical Twist stainless steel No./m²: equivalent diameter: 0.0101 m				
	Fixings	Level 1: dU* = 0.01 W/(m²K)	00.17 %	50.000	D	-
	Air gaps	BS EN 12524	0.0150	0.250	D	0.0600
✓	6b	BS EN 12524				0.1300
✓	7	Rai				
			0.2600			

$R_T = p \cdot R_T' + (1-p) \cdot R_T'' = 4.85 \text{ m}^2\text{K/W}$

Correction to U-value for according to delta U [W/(m²K)]

Mechanical fasteners	Digest 465	0.035
Air gaps	BS EN ISO 6946 Annex D	0.002
		0.037

$U = 1/R_T + \Sigma \Delta U = 0.24 \text{ W/(m}^2\text{K)}$

Q ... The physical values of the building materials has been graded by their level of quality. These 5 levels are the following

A: Data is entered and validated by the manufacturer or supplier. Data is continuously tested by 3rd party.

B: Data is entered and validated by the manufacturer or supplier. Data is certified by 3rd party.

C: Data is entered and validated by the manufacturer or supplier.

D: Data is entered and validated by the manufacturer or supplier.

E: Information is entered by the user of the BuildDesk software without special agreement with the manufacturer, supplier or others.



Location: External walls above brick coursing

Product Description: White proprietary insulated render system

Colour/ Finish: White (RAL 9010)

Manufacturer/Supplier: Aliva UK

Contact: 1210 Parkview
Arlington Business Park
Theale
Berkshire
RG7 4TY
+44 (0) 1189 635 900

3.3 Main Building External Finishes
Rainscreen Cladding



Location: Feature infill panels to windows and curtain walling system

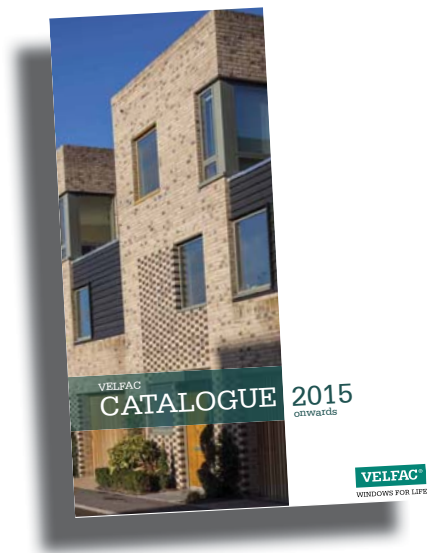
Product Description: Anodised aluminium rain-screen cladding

Colour/ Finish: Code: C33 ARS

Manufacturer/Supplier: Aliva UK

Contact: Aliva UK
1210 Parkview
Arlington Business Park
The ale
Berkshire
RG7 4TY
+44 (0) 1189 635 900

3.4 Main Building External Finishes
Window Frames



Location: Windows and curtain walling

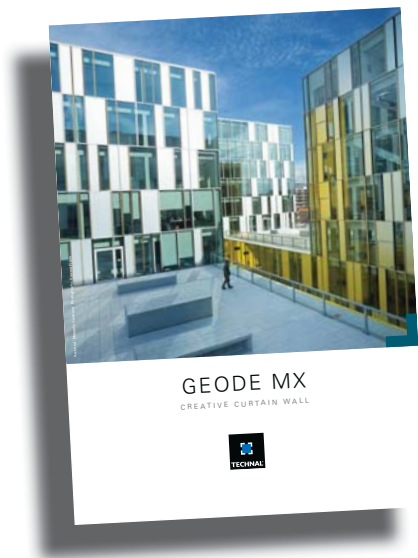
Product Description: PPC Aluminium window frames to windows and atrium curtain walling

External Colour/ Finish: RAL 7016

Manufacturer/Supplier: Velfac (Punched windows only) & Technal (Curtain walling only)

Contact: VELFAC LTD
The Old Livery
Hildersham
Cambridge
CB21 6DR
UK
+44 (0) 1223 897 100

Technal
Head Office
Technical Support
Sales and Distribution
Albert drive
Silkwood Park
Wakefield
WF5 9TG
+44 (0)1924 232 323



3.5 Main Building External Finishes
Composite Cladding



Location: Atrium roof perimeter

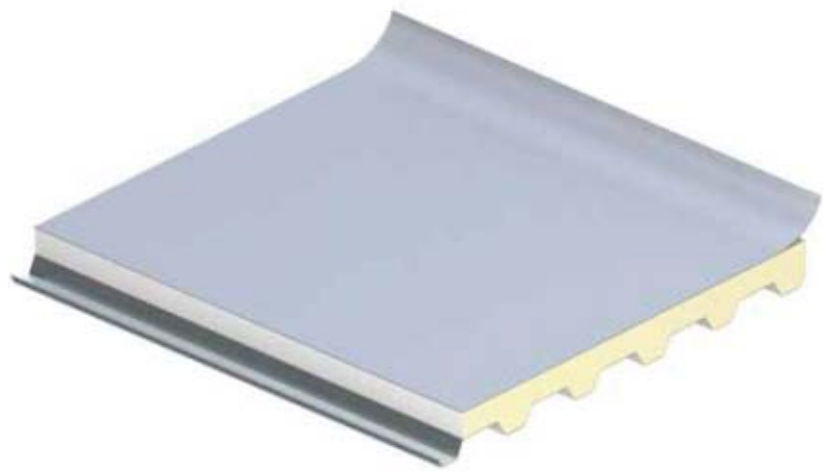
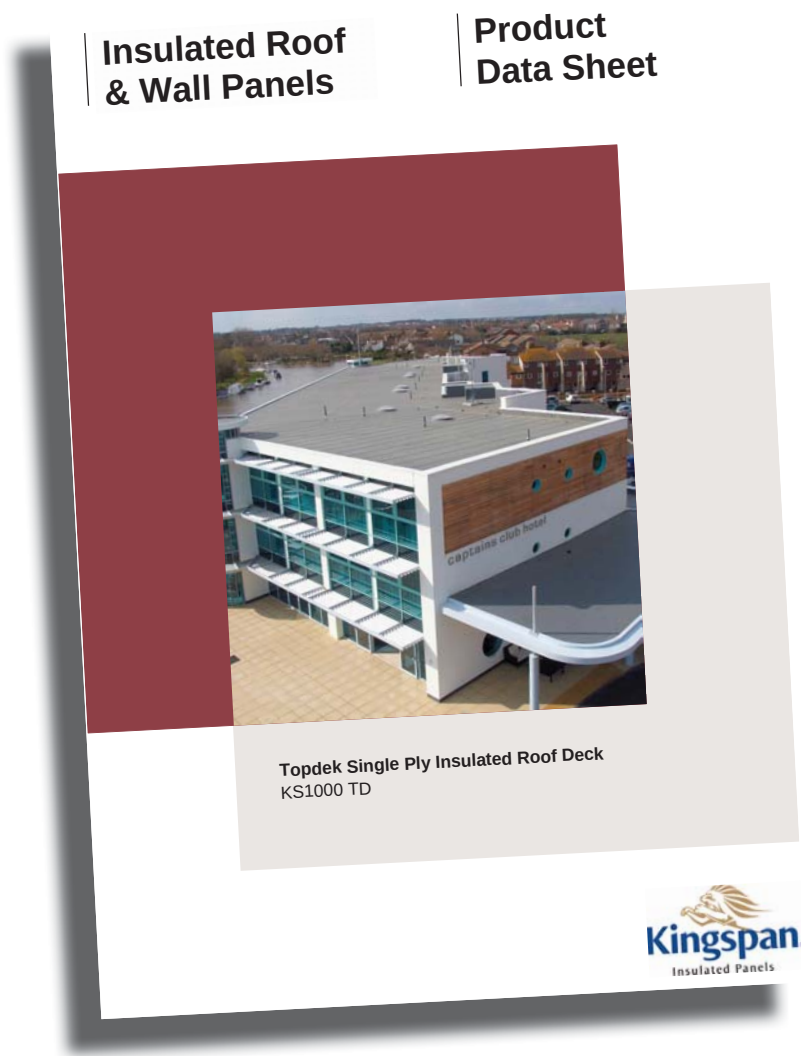
Product Description: Composite cladding to atrium roof perimeter

Colour/ Finish: Kingspan Mini Micro KS1000 MM in RAL 7016

Manufacturer/Supplier: Kingspan

Contact: Kingspan Insulated Panels UK
Kingspan Ltd
Greenfield Business Park 2
Greenfield
Holywell
Flintshire
CH8 7GJ
UK
+44 (0) 1352 716 100

3.6 Main Building External Finishes
Roof



Location: Roof

Product Description: Composite roof system

Colour/ Finish: Topdek KS1000 TD with Armour-plan coating in Mid Grey (RAL 7046)

Manufacturer/Supplier: Kingspan

Contact: Kingspan Insulated Panels UK
Kingspan Ltd
Greenfield Business Park 2
Greenfield
Holywell
Flintshire
CH8 7GJ
UK
+44 (0) 1352 716 100

3.7 Main Building External Finishes
Plant Room Screen



- Location:** Plant Room Walls
- Product Description:** Trapezoidal Profiled Metal Cladding at 135mm centres
- Colour/ Finish:** RAL 7016
- Manufacturer/Supplier:** Lindab
- Contact:** Lindab Manchester
Unit 11B
Central Park Trading Estate
Mosely Road
Manchester
M17 1PG
UK
+44 (0) 161 876 0688

