

# BIM CHECKLIST



**Name of Project:**

**Client:**

**Form Completed by:**

**Date:**

**Revision:**

[www.plowmancraven.co.uk](http://www.plowmancraven.co.uk)

# BIM Checklist

**This comprehensive BIM Checklist serves as the foundational document for outlining the specific requirements and level of detail for each element included in a Plowman Craven survey model.**

**Within the ‘Site Data’ and ‘Modelling’ sections, an array of options is categorised, featuring both optional and required sections.**

Our commitment to delivering accurate and tailored BIM solutions begins with understanding and documenting your project’s unique needs. This checklist will serve as a vital tool in aligning expectations and ensuring that the resulting survey and model precisely meet your requirements.

At Plowman Craven, we emphasise the importance of proactive communication and collaboration throughout the project lifecycle. To this end, we strongly advocate for a BIM kick-off meeting at the project’s outset. This initial meeting will ensure that the model is correctly interpreted and relevant details such as the model version, coordinates, delivery formats, worksets and all other coordination information is agreed.

By adhering to this specification checklist and engaging in open dialogue throughout the process, we aim to deliver survey models that not only meet but exceed your expectations, providing valuable insights and driving efficiencies in your project’s lifecycle.

## SURVEY DATA

### Point Cloud Density

Please specify the required average point spacing, bearing in mind current and future potential uses for the scan data:

AVERAGE POINT SPACING			
<b>REQUIRED</b>	Point spacing 20mm	Typically used for mass modelling or LOD1 & LOD2 models	<input type="checkbox"/>
	Point spacing 10mm	Typical used for standard building modelling or LOD3 models	<input type="checkbox"/>
	Point spacing 5mm	Typically used for heritage building modelling or LOD4 models	<input type="checkbox"/>
	Custom point spacing	<i>Please specify in comments box below</i>	<input type="checkbox"/>
<b>Comments:</b>			

## Restricted Access Areas

To help define the extents of modelling for partially obscured elements, with particular emphasis on ceilings and roof voids, please confirm whether the following areas are to be surveyed and modelled:

VOIDS AND SPACES		
OPTIONAL	Ceiling Voids	<input type="checkbox"/>
	Floor Voids	<input type="checkbox"/>
	Roof Voids / Loft Spaces	<input type="checkbox"/>
	Risers	<input type="checkbox"/>
	Lift Shafts	<input type="checkbox"/>
	Confined Spaces	<input type="checkbox"/>
	Other ( <i>please specify in comments box below</i> )	<input type="checkbox"/>
Comments:		

## Point Cloud Deliverables

As standard, all model deliverables will be issued with accompanying survey data. We recommend that all survey models are read in conjunction with point cloud information. Please specify the point cloud colour and photography requirements:

COLOUR		
REQUIRED	Scan data to be Intensity (Black and White)	<input type="checkbox"/>
	Scan data to be RGB (Coloured)	<input type="checkbox"/>
PHOTOGRAPHY AND TRUVIEW		
REQUIRED	Greyscale 360 Photography	<input type="checkbox"/>
	Colour 360 Photography	<input type="checkbox"/>
	Greyscale TruView	<input type="checkbox"/>
	Colour TruView	<input type="checkbox"/>
Comments:		

When authoring within the model, the standard point cloud format is RCS. Please specify if other data formats are required:

ADDITIONAL FORMATS		
OPTIONAL	Scan data to be delivered as PTS	<input type="checkbox"/>
	Scan data to be delivered as LAZ	<input type="checkbox"/>
	Scan data to be delivered as E57	<input type="checkbox"/>
	Scan data to be delivered as POD	<input type="checkbox"/>
	Scan data to be delivered as IMP	<input type="checkbox"/>
Comments:		

## Coordinate System

Please specify the planimetric coordinate system and height datum to be used for the project:

HEIGHT CONTROL		
REQUIRED	Ordnance Datum Newlyn	<input type="checkbox"/>
	Local Datum	<input type="checkbox"/>
PLAN CONTROL		
REQUIRED	OS National Grid	<input type="checkbox"/>
	Local Project Grid	<input type="checkbox"/>
	Other ( <i>Please specify in comments box below</i> )	<input type="checkbox"/>
Comments:		

## MODELLING

### Software

Plowman Craven’s survey models are authored primarily within Autodesk Revit, although the models can also be authored in other software where requested. Please specify if the model is to be authored in Autodesk Revit or another software:

MODELLING SOFTWARE		
REQUIRED	Autodesk Revit <i>All versions are available and will be confirmed during the BIM kick-off meeting</i>	<input type="checkbox"/>
	Other ( <i>Please specify in comments box below</i> )	<input type="checkbox"/>
<b>Comments:</b>		

### Tolerance

Plowman Craven will attempt to model all objects as accurately as possible however, due to the limitations of the software, certain elements will need to deviate from the point cloud data to avoid functional errors and warnings. Please specify the maximum level of deviation the modelled objects can be from the point cloud data before having to identify the deviation through parameters on the modelled object:

MODELLING TOLERANCE			
REQUIRED	Low-level tolerance	Objects modelled to a tolerance of 50mm of the point cloud	<input type="checkbox"/>
	Mid-level tolerance	Objects modelled to a tolerance of 25mm of the point cloud	<input type="checkbox"/>
	High-level tolerance	Objects modelled to a tolerance of 10mm of the point cloud	<input type="checkbox"/>
	Other ( <i>Please specify in comments box below</i> )		<input type="checkbox"/>
<b>Comments:</b>			

### Rooms and Space Identification

Please specify if you would like the inclusion of rooms and space scheduling within the BIM model:

ROOMS AND SPACE SCHEDULING		
OPTIONAL	Room definition (boundary)	<input type="checkbox"/>
	Space identification (name and title) <i>This will require client supplied space schedules</i>	<input type="checkbox"/>
<b>Comments:</b>		

## Materials

Materials can be identified by either family name, applying a default white material to the object with the correct material name or adding a textured material to the object. Please specify if you would like to include material attribution to the modelled elements:

MATERIAL ATTRIBUTION				
BY CATEGORY				
	Elements & Areas	In Revit Family Name Only	Untextured Material (with name)	Textured Material (with name)
OPTIONAL	Floors	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Walls	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Other ( <i>Please specify in comments box below</i> )	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Comments:				
BY SPACE / FUNCTION				
	Elements & Areas	In Revit Family Name Only	Untextured Material (with name)	Textured Material (with name)
OPTIONAL	Building Internals	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Building Externals	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Topography	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Other ( <i>Please specify in comments box below</i> )	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Comments:				

## Asset Tagging

Please specify if you would like the inclusion of asset information within the BIM model:

ASSET INFORMATION INTEGRATION	
OPTIONAL	Integrate asset information into the model <i>This will require client supplied asset information as well as the correct LOD for the surveyed assets to be modelled</i>
	<input type="checkbox"/>
Comments:	

## 2D Views and Sheets

Plowman Craven’s survey models will not contain any 2D drawing information by default. Please specify whether 2D Views and Sheets are required within the model:

*Note: 2D drawing data generated from the model will adhere to the chosen LOD rather than scale. If objects are omitted from the model due to the LOD, they will not appear in the 2D representation.*

DRAWING ANNOTATION	
OPTIONAL	Unannotated <i>Please select the drawing origin below</i> <input type="checkbox"/>
OPTIONAL	Annotated <i>Please select the drawing origin below</i> <input type="checkbox"/>
DRAWING ORIGIN	
OPTIONAL	2D Sheets within the model (not exported to DWG) <i>Please select the required drawing types below</i> <input type="checkbox"/>
OPTIONAL	2D Sheets exported from the model to DWG <i>Please select the required drawing types below</i> <input type="checkbox"/>
OPTIONAL	RICS MBS compliant 2D Drawings <i>Please select the required drawing types below</i> <input type="checkbox"/>
REQUIRED DRAWING TYPES	
	Site Plans (Topography) <input type="checkbox"/>
	Reflected Ceiling Plans <input type="checkbox"/>
	Floor Plans <input type="checkbox"/>
	Sections <input type="checkbox"/>
	External Elevations <input type="checkbox"/>
	Sectional Elevations <input type="checkbox"/>
	Internal Elevations <input type="checkbox"/>
<b>Comments:</b>  	

## LEVEL OF DETAIL MATRIX

All Plowman Craven models are BIM Stage 2 compliant, with files and model objects named in accordance with a combination of BS EN ISO 19650-2:2018 and BS 8541-1:2012. Models are inclusive of embedded Uniclass 2015 classification information and built in a way that maximises functionality for the benefit of model manipulation once ownership of the model is transferred to you.

Plowman Craven models are not only an accurate representation of the built asset, but a sound foundation on which to build your design with the future in mind. Some inherent inefficiencies exist in the manipulation of survey models (e.g. warnings and model in-place elements), however based on our extensive experience Plowman Craven has developed a modelling approach which minimises these. The plethora of knowledge held within our multi-disciplinary BIM Centre of Excellence allows us to meet and exceed expectations on future projects.

The following tables give summaries of how each construction element is visually represented within the model at different Levels of Detail.

Please select your model requirements from the following tables:

<b>WALLS</b>		<b>Internal</b>	<b>External</b>
LEVEL OF DETAIL	<b>Not Required</b>	<input type="checkbox"/>	<input type="checkbox"/>
	<b>LOD2</b>	Structural walls equal to or greater than 140mm only, modelled indicating overall thickness	
	<b>LOD3</b>	All walls modelled indicating overall thickness with simplified detail elements	
	<b>LOD4</b>	As LOD3, along with additional features - <i>please select from the list below</i>	
<b>ADDITIONAL FEATURES (REQUIRES LOD4)</b>			
Quoins		<input type="checkbox"/>	<input type="checkbox"/>
Dado Rails		<input type="checkbox"/>	<input type="checkbox"/>
Picture Rails		<input type="checkbox"/>	<input type="checkbox"/>
Skirting		<input type="checkbox"/>	<input type="checkbox"/>
Cornices		<input type="checkbox"/>	<input type="checkbox"/>
Mouldings		<input type="checkbox"/>	<input type="checkbox"/>
Panelling		<input type="checkbox"/>	<input type="checkbox"/>
Cage Enclosures		<input type="checkbox"/>	<input type="checkbox"/>
Dentils		<input type="checkbox"/>	<input type="checkbox"/>
Temporary Hoarding		<input type="checkbox"/>	<input type="checkbox"/>
Vents		<input type="checkbox"/>	<input type="checkbox"/>
Penetrations => 50mm		<input type="checkbox"/>	<input type="checkbox"/>
Stone/Brickwork Identification		<input type="checkbox"/>	<input type="checkbox"/>
<b>Comments:</b>			



EXTERNAL ROOF			
LEVEL OF DETAIL	Not Required	<input type="checkbox"/>	
	LOD2	Modelled as system roof showing overall thickness roof shape	<input type="checkbox"/>
	LOD3	Eave soffits, fascias and guttering, gullies, coping, flues, outlets and chimney pots also modelled	<input type="checkbox"/>
	LOD4	As LOD3, showing additional detail such as flashing and standing seams	<input type="checkbox"/>
Comments:			

DOORS AND WINDOWS		Internal	External	
LEVEL OF DETAIL	Not Required	<input type="checkbox"/>	<input type="checkbox"/>	
	LOD2	Structural openings only	<input type="checkbox"/>	
	LOD3	Modelled using generic families with basic detail, vision panels and swing	<input type="checkbox"/>	<input type="checkbox"/>
	LOD4	Modelled using bespoke families showing detail such as sills and architraves	<input type="checkbox"/>	<input type="checkbox"/>
Comments:				

FLOORS, SLABS AND CEILINGS			
LEVEL OF DETAIL	Not Required	<input type="checkbox"/>	
	LOD2	Floors and ceilings modelled as a single element from FFL to U/S of finish below (ceiling void not identified)	<input type="checkbox"/>
	LOD3	Floors and ceilings modelled showing overall thickness of floor structure (distinction between FFL, voids and ceilings is made)	<input type="checkbox"/>
	LOD4	As LOD3, along with additional features - <i>please select from the list below</i>	<input type="checkbox"/>
ADDITIONAL FEATURES (REQUIRES LOD4)			
	Joists	<input type="checkbox"/>	
	Access Panels	<input type="checkbox"/>	
	Inspection Covers	<input type="checkbox"/>	
	Penetrations => 50mm	<input type="checkbox"/>	
	Plinths	<input type="checkbox"/>	
	Raised Floor Grids	<input type="checkbox"/>	
	Ceiling Grids	<input type="checkbox"/>	
Comments:			

STAIRS, ESCALATORS, LADDERS AND RAILINGS		Internal	External	
LEVEL OF DETAIL	Not Required	<input type="checkbox"/>	<input type="checkbox"/>	
	LOD2	Stairs, escalators and ladders modelled to show individual treads. Railings not shown	<input type="checkbox"/>	<input type="checkbox"/>
	LOD3	As LOD 2 showing additional stringers and railings modelled in simple form (fixed vertical posts and top rail)	<input type="checkbox"/>	<input type="checkbox"/>
	LOD4	As LOD3, showing additional detail such as spindles, balustrades and stair nosing	<input type="checkbox"/>	<input type="checkbox"/>
Comments:				

STRUCTURE: COLUMNS, FRAMING AND TRUSSES			
<b>LEVEL OF DETAIL</b>	Not Required		<input type="checkbox"/>
	LOD2	Primary elements only - beams, trusses and columns modelled in simple form indicating overall extents	<input type="checkbox"/>
	LOD3	Primary elements only - beams, trusses and columns modelled with a defined profile	<input type="checkbox"/>
	LOD4	Primary and secondary elements modelled with a defined profile	<input type="checkbox"/>
ADDITIONAL FEATURES (REQUIRES LOD3 OR LOD4)			
Penetrations => 50mm		<input type="checkbox"/>	
Stiffeners		<input type="checkbox"/>	
Haunches		<input type="checkbox"/>	
Plates		<input type="checkbox"/>	
Nuts and Bolts		<input type="checkbox"/>	
Rivets		<input type="checkbox"/>	
Comments:			

LIFTS			
<b>LEVEL OF DETAIL</b>	Not Required		<input type="checkbox"/>
	LOD2	Internal core walls undefined with basic lift cart family	<input type="checkbox"/>
	LOD3	Internal lift shaft walls defined with basic lift cart family	<input type="checkbox"/>
	LOD4	As LOD3 showing lift systems and associated lift support structure	<input type="checkbox"/>
Comments:			

SERVICES: MEP, HVAC AND PLANT		Internal	External	
LEVEL OF DETAIL	Not Required	<input type="checkbox"/>	<input type="checkbox"/>	
	LOD1	Services equal to or above 1000mm in W/L/H or diameter showing <b>major plant only</b> in overall shape, size and position	<input type="checkbox"/>	<input type="checkbox"/>
	LOD2	Services equal to or above 500mm in W/L/H or diameter showing plant and service routes in overall shape, size and position <i>Please select additional features below</i>	<input type="checkbox"/>	<input type="checkbox"/>
	LOD3	Services equal to or above 100mm in W/L/H or diameter showing plant and service routes in profile shape, size and position <i>Please select additional features below</i>	<input type="checkbox"/>	<input type="checkbox"/>
	LOD4	Services equal to or above 50mm in W/L/H or diameter showing plant and service routes in profile shape, size and position <i>Please select additional features below</i>	<input type="checkbox"/>	<input type="checkbox"/>
<b>ADDITIONAL FEATURES (REQUIRES LOD2, LOD3 OR LOD4)</b>				
<b>MECHANICAL</b>				
Air Handling Units, Terminals and Exhaust Flu		<input type="checkbox"/>	<input type="checkbox"/>	
Ducts and Fittings		<input type="checkbox"/>	<input type="checkbox"/>	
<b>ELECTRICAL</b>				
Satellites and Aerials		<input type="checkbox"/>	<input type="checkbox"/>	
Sockets and Switches		<input type="checkbox"/>	<input type="checkbox"/>	
Fire Alarms and Detectors		<input type="checkbox"/>	<input type="checkbox"/>	
Cable Trays		<input type="checkbox"/>	<input type="checkbox"/>	
Conduits		<input type="checkbox"/>	<input type="checkbox"/>	
CCTV		<input type="checkbox"/>	<input type="checkbox"/>	
Electrical Equipment: Servers, Junction Boxes and Switchboards		<input type="checkbox"/>	<input type="checkbox"/>	
Lights		<input type="checkbox"/>	<input type="checkbox"/>	
A/C Units and Heaters		<input type="checkbox"/>	<input type="checkbox"/>	

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<b>ADDITIONAL FEATURES (REQUIRES LOD2, LOD3 OR LOD4) <i>continued from previous page</i></b>		
<b>HEALTH AND PLUMBING</b>		
Sprinkler Systems (Pipe and Head)	<input type="checkbox"/>	<input type="checkbox"/>
Sanitaryware	<input type="checkbox"/>	<input type="checkbox"/>
Radiators	<input type="checkbox"/>	<input type="checkbox"/>
Rainwater Pipes and Hoppers	<input type="checkbox"/>	<input type="checkbox"/>
Soil Vent Pipes	<input type="checkbox"/>	<input type="checkbox"/>
Other Pipes and Fittings	<input type="checkbox"/>	<input type="checkbox"/>
Gas, Water and Waste Tanks and Boilers	<input type="checkbox"/>	<input type="checkbox"/>
<b>MEP SUPPORT</b>		
Brackets, Clips and Hangers	<input type="checkbox"/>	<input type="checkbox"/>
<b>Comments:</b>		

<b>CONTEXTUAL MASSING</b>			
<b>LEVEL OF DETAIL</b>	<b>Not Required</b>		<input type="checkbox"/>
	<b>Standard</b>	Buildings modelled as massing showing overall shape and size	<input type="checkbox"/>
	<b>Enhanced</b>	Buildings modelled as a 'vacuum-formed' style, showing massing indents for all major reveals such as doors and windows and key roof features	<input type="checkbox"/>
<b>Comments:</b>			

<b>FFE: FIXTURES, FURNISHINGS AND EQUIPMENT</b>		<b>Internal</b>	<b>External</b>	
<b>LEVEL OF DETAIL</b>	<b>Not Required</b>	<input type="checkbox"/>	<input type="checkbox"/>	
	<b>LOD1</b>	FFE equal to or above 500mm in W/L/H or diameter modelled as massed elements showing overall size and position <i>Please select additional features below</i>	<input type="checkbox"/>	<input type="checkbox"/>
	<b>LOD2</b>	FFE equal to or above 100mm in W/L/H or diameter modelled as massed elements showing overall size and position <i>Please select additional features below</i>	<input type="checkbox"/>	<input type="checkbox"/>
	<b>LOD3</b>	As per LOD2, with key features modelled in basic detail <i>Please select additional features below</i>	<input type="checkbox"/>	<input type="checkbox"/>
	<b>LOD4</b>	As per LOD3, with key features modelled in fine detail <i>Please select additional features below</i>	<input type="checkbox"/>	<input type="checkbox"/>
<b>ADDITIONAL FEATURES (REQUIRES LOD2, LOD3 OR LOD4)</b>				
Toilet Cubicles		<input type="checkbox"/>	<input type="checkbox"/>	
Free-standing Storage Units/Cupboards		<input type="checkbox"/>	<input type="checkbox"/>	
Retail Gondolas		<input type="checkbox"/>	<input type="checkbox"/>	
Soft Furnishings		<input type="checkbox"/>	<input type="checkbox"/>	
Signage		<input type="checkbox"/>	<input type="checkbox"/>	
<b>Comments:</b>				

<b>MAINTENANCE AND TEMPORARY WORKS (BMUS, CRANES AND SCAFFOLDING)</b>		<b>Internal</b>	<b>External</b>	
<b>LEVEL OF DETAIL</b>	<b>Not Required</b>	<input type="checkbox"/>	<input type="checkbox"/>	
	<b>LOD2</b>	Overall shape shown in simplified mass model to indicate size and position	<input type="checkbox"/>	<input type="checkbox"/>
	<b>LOD3</b>	Major elements identified and modelled in basic profile shape, size and position	<input type="checkbox"/>	<input type="checkbox"/>
	<b>LOD4</b>	As LOD3, with detailed profiling	<input type="checkbox"/>	<input type="checkbox"/>
<b>Comments:</b>				

SITE TOPOGRAPHY: SURFACES		
LEVEL OF DETAIL	Not Required	<input type="checkbox"/>
	LOD1	Topography shown as simplified topo surface <input type="checkbox"/>
	LOD2	As LOD1 with sub regions distinguishing hard and soft landscaping <input type="checkbox"/>
	LOD3	Soft landscaping and roads modelled with topo surface. Hard landscaping modelled with floors <input type="checkbox"/>
	LOD4	As LOD3 with surface types and kerbs distinguished <input type="checkbox"/>
SITE TOPOGRAPHY: TREES AND PLANTING		
LEVEL OF DETAIL	Not required	<input type="checkbox"/>
	LOD1	Vegetation larger than 10m modelled with four-point cardinal trees, demonstrating directional canopy extents relative to trunk. Major trunk dimensions recognised, inclusive of root protection area if provided. (Further Arboricultural data can be defined if requested) <input type="checkbox"/>
	LOD2	Vegetation larger than 5m modelled with four-point cardinal trees, demonstrating directional canopy extents relative to trunk. Major trunk dimensions recognised, inclusive of root protection area if provided. (Further Arboricultural data can be defined if requested) <input type="checkbox"/>
	LOD3	All vegetation modelled with four-point cardinal trees, demonstrating directional canopy extents relative to trunk. Major trunk dimensions recognised, inclusive of root protection area if provided. (Further Arboricultural data can be defined if requested) <input type="checkbox"/>
	LOD4	Modelling of major limbs/branches and trunk (>75mm in diameter) with overall canopy extents modelled <input type="checkbox"/>
SITE TOPOGRAPHY: STREET FURNITURE		
LEVEL OF DETAIL	Not required	<input type="checkbox"/>
	LOD3	Modelled showing overall size and position <i>Please select additional features below</i> <input type="checkbox"/>
	LOD4	As LOD3 showing defined profile and position <i>Please select additional features below</i> <input type="checkbox"/>
ADDITIONAL FEATURES (REQUIRES STREET FURNITURE - LOD3 OR LOD4)		
Boundaries (Site Walls, Barriers, Fences, Railings, Gates, Handrails, Hoardings and Parapets)		<input type="checkbox"/>
Public Utilisation (Seating, Bollards, Bins, Post Boxes and Shelters)		<input type="checkbox"/>
Highways (Traffic Signage and Signals, CCTV and Cams, Street Lighting and Bollards)		<input type="checkbox"/>
Communication (Telephone Boxes, Service/Electric Boxes and Telegraph Poles)		<input type="checkbox"/>
Utilities (Inspection Covers, Gullies, Hydrants and Drainage Channels)		<input type="checkbox"/>
Road and Carpark Markings		<input type="checkbox"/>
Comments:		

ARTWORKS (STATUES, PAINTINGS AND SCULPTURES)		Internal	External	
LEVEL OF DETAIL	Not Required	<input type="checkbox"/>	<input type="checkbox"/>	
	LOD2	Simplified boxed mass showing overall size and position	<input type="checkbox"/>	<input type="checkbox"/>
	LOD3	Element Identified and modelled to show basic profile shape and position	<input type="checkbox"/>	<input type="checkbox"/>
	LOD4	Element modelled outside of the model as a meshed object and inserted into the model	<input type="checkbox"/>	<input type="checkbox"/>
Comments:				

UNDERGROUND SERVICES (UGS)			
LEVEL OF DETAIL	Not Required		<input type="checkbox"/>
	LOD2	3D CAD UGS Survey as linked DWG	<input type="checkbox"/>
	LOD3	UGS is modelled in the model, with simplified massed identification of service chambers	<input type="checkbox"/>
	LOD4	As LOD3 with service chambers accurately modelled showing internal chamber profiles	<input type="checkbox"/>
ADDITIONAL FEATURES (REQUIRES LOD3 OR LOD4)			
CCTV Links Embedded into Model		<input type="checkbox"/>	
Comments:			

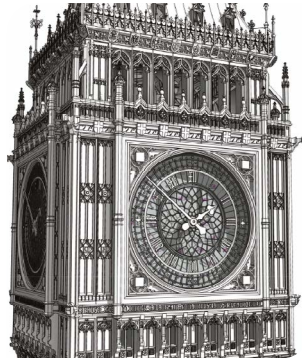
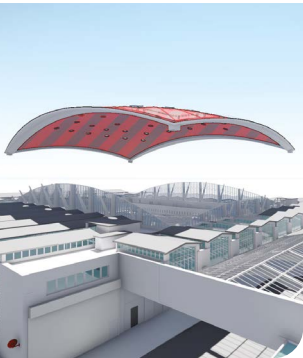


EXTERNAL STRUCTURES: BRIDGES AND GANTRIES			
LEVEL OF DETAIL	Not required		<input type="checkbox"/>
	LOD1	Overall structural form shown in simplified mass model to indicate general size and position	<input type="checkbox"/>
	LOD2	Major structural elements (abutments, bridge deck, piers, pylons and wing walls) identified and modelled in a simplified form to show basic profile shape, size and position	<input type="checkbox"/>
	LOD3	As LOD2, with accurate profiling of major and minor structural elements. Inclusion of parapets, handrails, and structural cable clusters	<input type="checkbox"/>
	LOD4	As LOD3, with inclusion of structural connections and expansion/movement joints identified where visible	<input type="checkbox"/>
EXTERNAL STRUCTURES: MISCELLANEOUS (E.G. MONUMENTS, PYLONS AND GAS HOLDERS)			
LEVEL OF DETAIL	Not required		<input type="checkbox"/>
	LOD2	Overall shape shown in simplified mass model to indicate size and position	<input type="checkbox"/>
	LOD3	Major elements modelled in basic profile shape, size and position	<input type="checkbox"/>
	LOD4	Major and minor elements modelled in basic profile shape, size and position	<input type="checkbox"/>
Comments:			

**Thank you for completing this BIM Checklist for your forthcoming project. We look forward to working with you. If you have any queries or questions in completing this, please get in touch.**

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Education  
Government & Public Bodies  
Health  
Heritage, Arts & Leisure  
Industrial & Logistics Office  
Rail & Transport  
Residential  
Retail  
Urban Regeneration  
Utilities



Aerial Surveys & Inspection  
Area Referencing Surveys  
Building Information Modelling & Consultancy  
Building Surveying Services & Technical Due Diligence  
Condition Surveys  
Construction Verification  
Correlation Surveys  
Environmental Planning Services  
Estate Data Management Services  
Heritage Recording  
Infrastructure Surveys  
Lease & Title Plans  
Line & Level Sewer Surveys  
Measured Building Surveys  
Rail Surveys  
Structural & Environmental Monitoring  
Surveys for Planning, AVR & Rights of Light  
Topographical Surveys  
Underground Utilities Mapping  
Visualisation  
3D Modelling

#### Head Office

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Tel: **+44 (0) 121 262 4218**  
Email: [webenquiry@plowmancraven.co.uk](mailto:webenquiry@plowmancraven.co.uk)

#### India

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Rangoli Road  
Ahmedabad, India