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Layer Convention for BS1192:2007

This document as provided as is for Clients of Oakley CAD Services Ltd and may be used as a basis for companies or projects wishing to implement a layer standard in accordance with BS1192:2007 and Uniclass. This documentation provided is an implementation of the layer standard as defined within BS1192:2007 and incorporates CPIC's Uniclass classification table 1.4 published January 2011.

Background

This documentation, written by Oakley CAD Services Ltd provides detailed information on the creation of Layers for compliance with the BS1192:2007 and how they can be implemented for use with Autodesk software such as AutoCAD, AutoCAD Architecture and Revit. The standard is used within the Architectural, Engineering and Construction Industries and provides conventions that can be implemented for any company or project.

This document is based upon the layering standard as defined within BS1192:2007, which is the prevailing document relating to Layer Standards in the UK and CPICs Uniclass version 1.4.

Disclaimer

This document is based upon BS1192:2007 and the CPIC Uniclass standard version 1.4. The Authors and contributors of this document take no responsibility for the utilisation of these procedure and guidelines. Please check compliance with the relevant British Standards and published versions of Uniclass provided by CPIC.

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Version Control

Version	Date	Status
Version 1 – Cisfb	Jan 2004	Withdrawn
Version 2 – Uniclass	March 2008	Withdrawn
Version 3 – Uniclass 1.4	Jan 2012	Withdrawn
Version 4 – Uniclass 1.4	May 2012	Draft (Withdrawn)
Version 4.1 – Uniclass 1.4	June 2012	Current

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Scope

This document provides guidance on the implementation of the BS1192:2007 Layer standard using the Uniclass Classification system. Since the launch of the BS1192:2007 Standard there have been further developments in the relevant British standards including the release of BS8541-2:2011 and the UK government BIM Strategy which is providing further guidance on the use of layers for 3D methods of working. The requirements of this standard have led to the development of additional presentation codes for layers that are available for use, if required.

BS1192:2007 mandates the use of Uniclass as the classification system to be used within Layer names. The original implementation of the Element fields within Uniclass meant that often the use of concatenated Uniclass codes was considered the appropriate method to classify specific elements. Unfortunately some implementation used concatenated codes and special text Characters not suitable for Layer naming conventions.

CPIC have therefore carried out additional work within this area and have recently published version 1.4 of Uniclass in January 2012. This unifies tables G (Elements for Building) and H (Elements for Civil) into one combined table G to enable the classification of elements across both Building and Civil. This removes the need for concatenated codes and also includes a CPIC defined Layer alias name relating to each code.. There has also been a publication of Table Z which provides a table for CAD specific classifications.

This document provides guidance on how to implement the layering convention to comply with the requirements of BS1192:2007 using the following:-

- Uniclass Classification version 1.4.
- Enhance Presentation codes for 3D modelling
- CPIC Alias Convention for Uniclass version 1.4

It also provides further information regarding how the relevant layer fields defined within BS1192:2007 shall be implemented. For a more detailed description of the standard please refer to either BS1192:2007 or the supporting documentation produced by the BSI. Links can be found on the BSI web site.

Uniclass is a classification system owned and developed by CPIC (<http://www.cpic.org.uk/>) and the data presented in this document is based upon the Uniclass 1.4 version released in January 2012. This is available from the CPIC web site and used within the CPIC Layer Generator Tool. Please check the CPIC website for the latest updates to the Uniclass standard.

Special Characters

To ensure compatibility and interoperability between CAD software the use of special characters and spaces **MUST NOT** be used in any Layer naming conventions.

Therefore the following best practise should be followed:-

Only the letters (A to Z), hyphen (-), underscore (_) and numbers (0-9) shall be used in the naming of CAD Layers

- Spaces **MUST NOT** be used.

The following characters **MUST NOT** be used in any circumstances:-

- , ° ! " £ \$ % ^ & * () { } [] + = < > ? | \ / @ ' ~ # ~ ` `

Use of Layer Standards in Autodesk Software

Layer Standards Approach.

This document generally provides information on the Layer Naming convention included within BS1192:2007. However, the naming of layers is also dependent upon how layers are to be used. This section of the document is specifically aimed at Autodesk product Users and the appendix documents provide supporting information regarding the implementation of layers for both AutoCAD Architecture and for export from Revit. Supporting content for AutoCAD Architecture and Revit exports is available from Oakley CAD Services Ltd, along with supporting layer applications.

Use of Layers

The purpose of layers within CAD software is to aid with at least one of the following:

- Data visibility
- Presentation Techniques
- Data Filters

Data Visibility

In most CAD software the Layers provide the opportunity to aid the visibility of data in different views by the use of the following commands:

- 'Freeze / Thaw' – Frozen layers are not visible or editable.
- 'On / Off' – 'Off' Layers are not visible, but elements are still editable and can be deleted.

In order to improve productivity in AutoCAD based software, layers should always be 'Frozen' if the visibility of entities is not required. Using the 'Off' option is only used in special circumstances, normally linked to the hide or layers isolate commands.

Presentation Techniques

Another specific use of Layers is to aid with presentation techniques and most CAD entities should have the following properties set as value = Bylayer:

- Colour – Linked to the plot style for plotting use.
- Line type – Different line types can be assigned to layers to aid presentation
- Line weight – Line weights can be added per layer or defined within the plot style
- Transparency – Specifically useful when combined with hatches.

The presentation of any CAD drawing depends on the use of the layers system and the associated plot styles used. The appendix to this document provides information on both CTB and STB plot standards that can be used with this Layer Convention. These have been defined to ensure that they work with the AutoCAD Architecture Layer Keys and Autodesk's UK Content pack, as well as the Revit export layers defined.

Data Filters

CAD and BIM software often needs to filter entities based upon a specific classification. The main method available in CAD software is the use of the entities layers. This is why layer standards are based upon classification systems which allows for scheduling and counting of entities using the classification applied through the layer property.

The Creation of Layers.

Layers should only be created to aid one of the three uses defined and the minimum amount of layers required to fit this purpose should be used within any project. Project layers should be planned and all team members should have an understanding of which drawn entities belong on each layer.

Implementing the BS1192:2007 Layer Standard

BS1192:2007 allows only for the following fields to be included within any Layer Name:-

Field	Role	Classification / Element	Presentation	Alias
Name	A	G23	M2	Stair
Example	Architect	Stairs (Uniclass)	2D Model Graphics	Text

There are various methods of implementing the Layer standard within BS1192 which have led to inconsistencies. Therefore to aid with a common approach CPIC have provided a tool on their Web site to enable a common approach. This tool can be found at:
<http://cpionline.cpic.org.uk/FrmCPILayerGenerator.aspx>

The content provided within this document follows the same methodology as that provided within the CPIC website as of 1st May 2012. By following the contents of this document you should be able to create the same layer standards using a manual process.

Oakley CAD Services Layer Creator

Many of the Clients of Oakley CAD Services use one of the various layer creator applications that Oakley CAD Services had developed. Included in the appendix is the generic layer creator that works as a separate application and interfaces with AutoCAD to create Layers from a database for creation in AutoCAD LT, AutoCAD and AutoCAD vertical products.

For further information please contact info@Oakley-cad.co.uk.

Layer Fields

The description below provides information relating to each of the fields in BS1192. Data options for each of the fields are provided within this documentation.

Field 1: Role (1 Char)

'The Role / Discipline is the owner of the information'

This is a single Character code representing the role of the creator of the data produced. BS1192:2007 provides a list of the disciplines which has been replicated in this document.

There are specific implementation differences between fields such as 'Role' in the UK and 'Discipline' in the USA; Within BS1192:2007 the 'Role' field signifies the Author or Owner of the information. Therefore when an Architect draws a column the layer 'Role' field must be designated with the letter A for Architect.

In the USA the Layer Field refers to the 'Discipline' having responsibility for the object. So in the USA the Architect would draw a column and the 'Discipline' field would be designated S, passing the responsibility to the Structural Engineer.

In the UK each discipline only draws on the layers where the Role Field designates their specific discipline. Therefore anything an Architect draws must be on Layers commencing with the letter A.

The following Role table is taken from BS1192:

CODE	Role
A	Architects
B	Building Surveyors
C	Civil Engineers
D	Drainage Sewage and Road Engineers
E	Electrical Engineers
F	Facilities Managers
G	GIS Engineers & Land Surveyors
H	Heating & Ventilation Engineers
I	Interior Designers
K	Client
L	Landscape Architects
M	Mechanical Engineers
P	Public Health Engineers
Q	Quantity Surveyors
S	Structural Engineers
T	Town & Country Planners
W	Contractors
X	Sub-Contractors
Y	Specialist Designers
Z	General (Non disciplinary)

A Hyphen (-) is used as a separator between the Field 1 Role and Field 2 Classification.

Field 2: Classification / Element (Variable)

BS1192:2007 mandates the use of Uniclass as the classification system to be used within Layer names. This document relates to the Uniclass Version 1.4 version as defined on the CPIC website. If you find any discrepancies then please notify Oakley CAD Services Ltd. The CPIC version always take precedent over this document which was correct as of the 1st May 2012. The Uniclass tables provided within this document for use in Layers names are:

- Table F - Spaces
- Table G – Elements for Building and Civil
- Table Z - Computer Aided Design

Other Uniclass Tables may be appropriate for specific Layer requirements. Please refer to the CPIC web site for the content of these tables.

Uniclass Version 1.4 with the appropriate Element code and Layer Alias are provided in two formats in this document as follows:

- Appendix A - Uniclass Table by Code
- Appendix B - Uniclass Table by Alphabetical order.

A Hyphen (-) is used as a separator between the Field 2 Classification and Field 3 Presentation.

Field 3: Presentation Codes (2 Char)

BS1192 allows for a definition of the graphics to be used to represent an object in either a single or two letter codes. Where graphic representations are to be kept simple then the single codes as defined within BS1192:2007 should be used.

To aid with BIM implementation, where further graphics control is required, a two character code can be adopted. Two Character codes definitions are provided for additional presentation requirements as included with BS8541-2:2011.

Where there is a specific requirement for control of more complex graphics then the following 2 letter codes may be adopted. This allows for the separation of graphics forward, below and above the cut planes as well as for hidden objects within these views as defined within BS8541-2:2011. These codes have been included in the draft for PAS1192,

Single and Two Letter Presentation codes:-

Code	Description	Line Type
A	Annotation (Tags, Arrows, etc.)	
D	Dimensions	
H	Hatch	
M	Model related graphics	
M2	2D Model graphics	
M3	3D Model graphics	
MA	Model Analysis	
MC	Model Cut plane (Section / Details)	Thick Line
MF	Model Forward, Items that need to be show forward of the cut plain	Fine Line
MG	Model Grids (Grids, Reference planes, Reference Lines	
MH	Hidden lines, Items Hidden beyond cutting plane (BS8541-2:2011 item 1.304)	Hidden line
MM	Model Reflected \ Mirrored Information (Ceilings, Ductwork etc...)	
MN	Model Non visible elements , Behind / above cut plane (BS8541-2:2011 item 1.302)	Dashed dot dot line
MV	Model Visible items Behind / above the cut plane (BS8541-2:2011 item 1.301)	Dashed dot line
P	Plot /Page related graphics	
T	Text	

An Underscore (_) is used as a separator between the Field 3 Presentation and Field 4 Alias.

Field 4: Alias (Variable)

Description code to assist Layer Identification

The purpose of the Alias fields is to assist the identification of the building elements defined by the classification system. To ensure the consistent use of the Alias field CPIC have provided a standard list of Aliases to be used with each of the Uniclass classifications codes included with Uniclass version 1.4. These are included with each table and the Alias has been defined for each code and included within Appendix A and B.

Underscores are used to replace spaces within the Alias and any plurals are removed.

Layer Description Fields

Most CAD Software includes the capabilities for Layers to also include a description property as well as the name. The Descriptions provided with Field 2 should be used as the layer description to aid recognition. Layers can then be viewed and filtered by description as well as Layer name

Layer Name Examples

The following Wall examples demonstrate how layers could be used in Practice. Where possible the minimum amount of layers should be used to aid the correct viewing, presentation and collation of data. Therefore just the Simple Layer codes should be used in most circumstances. Where there are complex drawings or where presentation requirement further graphic refinement, then the complex layer codes should be used.

Simple Layer Codes

Layer Name	Description of Layer make up
A-G25-M_Wall	Architect Wall for all model views
A-G25-A_Wall	Architect Wall Annotation (Tags etc.,,,)

Complex Layer Codes

Layer Name	Description of Layer make up
A-G25-M_Wall	Architect Wall for Model Graphics (any view)
A-G25-MC_Wall	Architect Wall Model Cut plane (Section / Details)
A-G25-MH_Wall	Architect Wall for Hidden lines beyond cutting plane (BS8541-2:2011)
A-G25-MV_Wall	Architect Wall Visible items Behind / above the cut plane (BS8541-2:2011)
A-G25-A_Wall	Architect Wall Annotation (Tags etc.,,,)

Typical Layer use examples

Some typical layer use examples are provided to demonstrate the application of the convention:

Layer Name	Description of Layer make up
A-G321-M_Window	Architect Window Model Graphics (Any view)
A-G321-A_Window	Architect Window Annotation (Tags etc.)
A-Z78-M_Mass	Architect Massing Objects
A-F2-A_Room	Architect Room Annotation (Tags etc.)
A-Z221-T_Text	Architect General Text
M-G52-M_HVAC	Mechanical Engineer HVAC Model Graphics (any view)
M-G52-A_HVAC	Mechanical Engineer HVAC Annotation (Tags etc.)
S-Z81-M_Con	Structural Engineer Construction Lines
S-G262-M_Column	Structural Engineer Column Model Graphics
E-G55-M_COMM	Electrical Engineer Communications Model Graphics
E-G55-A_COMM	Electrical Engineer Communications Annotation (Tags etc.)

Appendix A - Uniclass Version 1.4 Tables by Classification Code

A list of the Uniclass codes for version 1.4 correct as of May 2012 is provided here. This includes tables F.G and Z which are considered the most appropriate tables for use within Layer names.

Please refer to the CPIC website for a full listing of the codes available. Up to date codes can be found using the CPIC Layer Generator tool at:

<http://cpionline.cpic.org.uk/FrmCPILayerGenerator.aspx>

It is also possible through the CPIC web site to request additional Uniclass codes where the appropriate item has not been previously defined. The link for this can be found at:

<http://cpionline.cpic.org.uk/FrmCPIRequest.aspx>

Table F Spaces Classification Code / Alias

Table F- Spaces in Uniclass version 1.4

Code	Description	CAD Alias (Field 4)
F1	Compound spaces of buildings	Space
F11	Semi-independent parts of a building, blocks	Space_Block
F12	Vertically divided parts of buildings	Space_Vertical
F121	Wings	Space_Wing
F122	Bays	Space_Bay
F123	Core	Space_Core
F13	Horizontally divided parts of buildings, storeys	Space_Horizontal
F131	Sub-basement	Sub-basement
F132	Basement	Basement
F133	Semi-basement	Semi-basement
F134	Ground floor	Ground_floor
F135	Mezzanine floor	Mezzanine_floor
F136	First floor and above, but below highest floor	Upper_Floors
F13601	First floor	First_floor
F13602	Second floor	Second_floor
F13603	Third floor	Third_floor
F13610	Tenth floor	Tenth_floor
F13611	Eleventh floor	Eleventh_floor
F13699	Ninety-ninth floor	Ninety-ninth_floor
F137	Highest floor	Highest_floor
F138	Space beneath a sloping roof, attic	Space_attic
F139	Space on top of a flat roof	Space_flat_roof
F19	Other compound spaces, zones	Space_compound_zone
F191	User functional departments	Department
F2	Rooms	Room
F3	Circulation spaces	Space_Circulation
F311	Porches	Porch
F314	Entrance halls, foyers	Entrance_hall
F317	Atria	Atria
F321	Central halls, lobbies	Lobby
F324	Stairs, lift shafts, escalators	Vertical_Circulation
F327	Corridors	Corridor
F331	Internal balconies, galleries	Internal_balcony
F332	External balconies	External_balcony
F334	Gangways	Gangway
F337	Covered ways	Covered_way
F338	Cloisters	Cloister
F341	Passages, alleys	Passage_alley

Code	Description	CAD Alias (Field 4)
F344	Crawlways	Crawlway
F351	Air locks	Air_lock
F399	Other circulation spaces	Space_Other_circulation
F4	Building sub-spaces	Building_sub-space
F41	Activity space	Activity_space
F42	Working space	Working_space
F43	Occupied space	Occupied_space
F44	Alcoves, niches	Alcove_niche
F45	Incidental space, voids	Space_void
F5	Internal spaces of buildings	Space_Internal
F6	External spaces of buildings	Space_External
F61	Courtyards, forecourts	Courtyard_forecourt
F62	Basement areas	Basement_area
F63	Dry areas	Dry_area
F64	Light wells	Light_well
F65	Terraces	Terrace
F651	Verandas	Veranda
F7	Building spaces by degree and type of enclosure	Space_Building_Enclosure
F71	Free space	Space_Free
F72	Open space	Space_Open
F73	Not covered, enclosed space	Space_Not_covered_enclosed
F731	Partly covered	Space_Partly_covered
F74	Covered, not enclosed space	Space_Covered_not_enclosed
F75	Fully enclosed space	Space_Fully_enclosed
F8	Miscellaneous spaces, other spaces	Space_Misc
F81	Fire compartments	Fire_compartment
F82	Protected space	Space_Protected
F83	Private space	Space_Private
F84	Public space	Space_Public
F85	Danger area	Space_Danger
F89	Other spaces	Space_Other
F9	Building space analysed	Area
F91	Building space analysed according to ISO 9836:1992	Area_ISO_9836
F911	Usable area	Area_Usable
F912	Circulation area	Area_Circulation
F913	Services area	Area_Service
F914	Structural element area	Area_Structural_element

Code	Description	CAD Alias (Field 4)
F919	Gross area	Area_Gross
F92	Building space analysed according to RICS and ISVA Code of measuring practice	Space
F921	Net Internal Area	Area_Net_Internal

Table G Elements for Building and Civil, Classification Code / Alias

Table G in Uniclass version 1.4 allows the classification of construction Elements and includes rationalised content from both the previous tables G (Elements for Buildings) and Table H (Elements for Civil).

Code	Description	CAD Alias (Field 4)
G1	Site preparation	Site_Prep
G11	Site preparation Clearance	Site_Prep_Clearance
G12	Site preparation Contouring	Site_Prep_Contouring
G13	Site preparation Stabilisation	Site_Prep_Stabilisation
G14	Site preparation Trench	Site_Prep_Trench
G15	Site preparation investigation	Site_Prep_INV
G151	Site preparation investigation Boreholes	Site_Prep_INV_Boreholes
G152	Site preparation investigation Test Pits	Site_Prep_INV_Test_Pit
G1521	Site preparation investigation Test Pits Porosity pits	Site_Prep_INV_Test_Pit_Porosity_Pit
G153	Site preparation investigation Trenches	Site_Prep_INV_Trenches
G16	Site preparation Ground Measurement	Site_Prep_GRD_Measurement
G161	Site preparation Ground Measurement Piezometers	Piezometer
G162	Site preparation Ground Measurement Water strikes	Waterstrike
G2	Fabric complete elements	Fabric_complete_element
G21	Foundations	Foundation
G211	Foundations	Foundation_Other
G212	Foundations Pier	Foundation_Pier
G213	Foundations Compensated	Foundation_Compensated
G214	Foundations Pile Caps	Foundation_Pile_Cap
G2141	Foundations Pile Caps Insitu concrete	Foundation_Pile_Cap_Insitu
G2142	Foundations Pile Caps Precast concrete	Foundation_Pile_Cap_Precast
G215	Foundations Piles	Foundation_pile
G2151	Foundations Piles Insitu concrete	Foundation_pile_Insitu
G2152	Foundations Piles End bearing	Foundation_pile_End_bearing
G2153	Foundations Piles Friction	Foundation_pile_Friction
G2154	Foundations Piles Settlement reducing	Foundation_pile_Settlement_reducing
G2155	Foundations Piles Tension	Foundation_pile_Tension
G2156	Foundations Piles Laterally loaded	Foundation_pile_Laterally_loaded
G2157	Foundations Piles Infill	Foundation_pile_Infill
G216	Foundations Strip	Foundation_Strip
G217	Foundations Raft	Foundation_Raft
G218	Foundations Pad	Foundation_Pad
G219	Foundations Cassions	Foundation_Cassion
G22	Floors	Floor
G23	Stairs	Stair
G24	Roofs	Roof
G241	Roofs Flat	Roof_Flat

Code	Description	CAD Alias (Field 4)
G242	Roofs Pitched	Roof_Pitched
G243	<i>Roofs Mono-pitched</i>	<i>Roof_Mono-pitched</i>
G244	Roofs Lean to	Roof_Lean_to
G245	Roofs Cable tension	Roof_Cable_tension
G246	Roofs Retractable	Roof_Retractable
G247	Roofs Prefabricated	Roof_Prefabricated
G248	Roofs Canopy	Roof_Canopy
G25	Walls	Wall
G251	Walls External	Wall_Ext
G2511	Walls External Complete	Wall_Ext_Comp
G25111	Walls External Complete Brick	Wall_Ext_Comp_Bwk
G25112	Walls External Complete Block	Wall_Ext_Comp_BlK
G25113	Walls External Complete Concrete	Wall_Ext_Comp_Conc
G251131	Walls External Complete Concrete Mass	Wall_Ext_Comp_Conc_Mass
G251132	Walls External Complete Concrete Precast	Wall_Ext_Comp_Conc_PC
G25114	Walls External Complete Glazed	Wall_Ext_Comp_Glazed
G25115	Walls External Complete Dry stone	Wall_Ext_Comp_DryStone
G2512	Walls External Finish External	Wall_Ext_Fin_Ext
G2513	Walls External Structure	Wall_Ext_Struct
G2514	Walls External Substrate	Wall_Ext_Sub
G2515	Walls External Finish Internal	Wall_Ext_Fin_Int
G2516	Walls External Insulant	Wall_Ext_Ins
G2517	Walls External Membrane	Wall_Ext_Memb
G2518	Walls External Edge	Wall_Ext_Edge
G2519	Walls External Parts	Wall_Ext_Part
G252	Walls Internal	Wall_Int
G2521	Walls Internal Complete	Wall_Int_Comp
G25211	Walls Internal Complete Brick	Wall_Int_Comp_Bwk
G25212	Walls Internal Complete Block	Wall_Int_Comp_BlK
G25213	Walls Internal Complete Concrete	Wall_Int_Comp_Conc
G2522	Walls Internal Finish External	Wall_Int_Fin_Ext
G2523	Walls Internal Structure	Wall_Int_Struct
G2524	Walls Internal Substrate	Wall_Int_Sub
G2525	Walls Internal Finish Internal	Wall_Int_Fin_Int
G2526	Walls Internal Insulant	Wall_Int_Ins
G2527	Walls Internal Membrane	Wall_Int_Memb
G2528	Walls Internal Edge	Wall_Int_Edge
G2529	Walls Internal Parts	Wall_Int_Part
G253	Walls Partition	Wall_Part
G2531	Walls Partition Complete	Wall_Part_Comp
G2532	Walls Partition Finish External	Wall_Part_Fin_Ext
G2533	Walls Partition Structure	Wall_Part_Struct
G2534	Walls Partition Substrate	Wall_Part_Sub

Code	Description	CAD Alias (Field 4)
G2535	Walls Partition Finish Internal	Wall_Part_Fin_Int
G2536	Walls Partition Insulant	Wall_Part_Ins
G2537	Walls Partition Membrane	Wall_Part_Memb
G2538	Walls Partition Edge	Wall_Part_Edge
G2539	Walls Partition Parts	Wall_Part_Part
G254	Walls Retaining	Wall_Ret
G2541	Walls Retaining Complete	Wall_Ret_Comp
G2542	Walls Retaining Finish External	Wall_Ret_Fin_Ext
G2543	Walls Retaining Structure	Wall_Ret_Struct
G2544	Walls Retaining Substrate	Wall_Ret_Sub
G2545	Walls Retaining Finish Internal	Wall_Ret_Fin_Int
G2546	Walls Retaining Insulant	Wall_Ret_Ins
G2547	Walls Retaining Membrane	Wall_Ret_Memb
G2548	Walls Retaining Edge	Wall_Ret_Edge
G2549	Walls Retaining Parts	Wall_Ret_Part
G255	Walls Site	Wall_Site
G2551	Walls Site Complete	Wall_Site_Comp
G2552	Walls Site Finish External	Wall_Site_Fin_Ext
G2553	Walls Site Structure	Wall_Site_Struct
G2554	Walls Site Substrate	Wall_Site_Sub
G2555	Walls Site Finish Internal	Wall_Site_Fin_Int
G2556	Walls Site Insulant	Wall_Site_Ins
G2557	Walls Site Membrane	Wall_Site_Memb
G2558	Walls Site Edge	Wall_Site_Edge
G2559	Walls Site Parts	Wall_Site_Part
G256	Walls Substructure	Wall_Sub
G2561	Walls Substructure Complete	Wall_Sub_Comp
G2562	Walls Substructure Finish External	Wall_Sub_Fin_Ext
G2563	Walls Substructure Structure	Wall_Sub_Struct
G2564	Walls Substructure Substrate	Wall_Sub_Sub
G2565	Walls Substructure Finish Internal	Wall_Sub_Fin_Int
G2566	Walls Substructure Insulant	Wall_Sub_Ins
G2567	Walls Substructure Membrane	Wall_Sub_Memb
G2568	Walls Substructure Edge	Wall_Sub_Edge
G2569	Walls Substructure Parts	Wall_Sub_Part
G257	Curtain Walls	Curt_Wall
G2571	Curtain Wall Framing	Curt_Wall_Frame
G2572	Curtain Wall Cladding Panels	Curt_Wall_Panel
G2573	Curtain Wall Cladding Units	Curt_Wall_Unit
G2574	Curtain Wall Cladding Grid	Curt_Wall_Grids
G26	Frame isolated structural members	Struct_member
G261	Beams	Beam
G2611	Beams Insitu concrete	Beam_Insitu_concrete
G2612	Beams Precast concrete	Beam_Precast_concrete

Code	Description	CAD Alias (Field 4)
G2613	Beams Steel	Beam_Steel
G2614	Beams Cast iron	Beam_Cast_iron
G262	Columns	Column
G2621	Columns Insitu concrete	Column_Insitu_concrete
G2622	Columns Precast concrete	Column_Precast_concrete
G2623	Columns Steel	Column_Steel
G2624	Columns Mass concrete	Column_Mass_concrete
G263	Bracing	Bracing
G2631	Bracing Insitu concrete	Bracing_Insitu_concrete
G2632	Bracing Precast concrete	Bracing_Precast_concrete
G2633	Bracing Steel	Bracing_Steel
G264	Piers and abutments	Pier_abutment
G265	Trestle	Trestle
G266	Bearings	Bearing
G2661	Bearings Fixed	Bearing_Fixed
G2662	Bearings Sliding bearing PTFE	Bearing_Sliding_bearing_PTFE
G2663	Bearings Roller	Bearing_Roller
G2664	Bearings Elastomeric	Bearing_Elastomeric
G3	Fabric parts of elements	Fabric
G31	Carcass structure fabric	Carcass_structure_fabric
G311	Core fabric	Core_fabric
G312	Coverings external finishes	Coverings_Ext_finish
G32	Openings	Opening
G321	Windows	Window
G3211	Windows External	Window_Ext
G3212	Windows Internal	Window_Int
G322	Doors	Door
G3221	Doors External	Door_Ext
G3222	Doors Internal	Door_Int
G323	Openings	Opening
G3231	Openings Arches	Opening_Arch
G324	Combined Openings	Opening_Combined
G325	Rooflights	Rooflight
G33	Internal finishes	Int_Fin
G331	Internal finishes Floors	Int_Fin_Floor
G3311	Internal finishes Floors Direct	Int_Fin_Floor_Direct
G3312	Internal finishes Floors Raised	Int_Fin_Floor_Raised
G332	Internal finishes Ceilings Soffit	Ceiling
G3321	Internal finishes Ceilings Soffit Direct	Ceiling_Soffit_Direct
G3322	Internal finishes Ceilings Soffit Suspended	Ceiling_Soffit_Suspended
G333	Internal finishes Wall	Int_Fin_Wall
G334	Internal finishes Other	Int_Fin_Other
G34	Other parts of fabric elements	Fabric_Other

Code	Description	CAD Alias (Field 4)
G4	Fittings furniture equipment FFE	FFE
G41	FFE Circulation	FFE_Circulation
G411	FFE Circulation Access	FFE_CA
G4111	FFE Circulation Access Depot and plant equipment access	FFE_CA_Depot_plant equip_access
G42	FFE Rest work	FFE_Rest_work
G43	FFE Culinary	FFE_Culinary
G44	FFE Sanitary hygiene	FFE_Sanitary
G45	FFE Cleaning maintenance CM	FFE_CM
G451	FFE Cleaning maintenance Depot cleaning and maintenance	FFE_CM__DCAM_
G4511	FFE Cleaning maintenance Depot cleaning and maintenance Cleaning equipment	FFE_CM__DCAM_Cleaning
G4512	FFE Cleaning maintenance Depot cleaning and maintenance Equipment maintenance	FFE_CM__DCAM_maintenance
G4513	FFE Cleaning maintenance Depot cleaning and maintenance De-icing	FFE_CM__DCAM__De-icing
G46	FFE Storage screening	FFE_Storage
G47	FFE Works of art and soft furnishings	FFE_WOAASF
G471	FFE Works of art and soft furnishings Works of art	FFE_Works_of_art
G472	FFE Works of art and soft furnishings Soft furnishings	FFE_Soft_furnishing
G48	FFE Special activity	FFE_SA
G49	FFE Other	FFE_Other
G491	FFE Other General equipment	FFE_Other_GEN_EQUIP
G4911	FFE Other General equipment Depot and plant	FFE_Other_GEN_EQUIP_Depot_plant
G492	FFE Other Monitoring equipment	FFE_Other_MON_EQUIP
G4921	FFE Other Monitoring equipment Track based	FFE_Other_MON_EQUIP_Track_based
G4922	FFE Other Monitoring equipment Test equipment	FFE_Other_MON_EQUIP_Test equip
G493	FFE Other Workshop equipment	FFE_Other_Workshop_equipment
G494	FFE Other Lifting equipment	FFE_Other_Lifting_equipment
G5	Services elements	Service element
G50	Water supply	Water_supply
G501	Water supply Cold water	Water_supply_Cold
G502	Water supply Hot water	Water_supply_Hot
G503	Water supply Bore Hole	Water_supply_Bore_Hole
G504	Water supply Water Reclamation	Water_supply_Water_Reclamation
G51	Gas and liquid supply	Gas_liquid_supply
G511	Gas supply	Gas_supply
G5111	Gas supply Natural	Gas_supply_Natural

Code	Description	CAD Alias (Field 4)
G5112	Gas supply Liquefied petroleum	Gas_supply_petrol
G5113	Gas supply Biogas	Gas_supply_Biogas
G5114	Gas supply Compressed air	Gas_supply_Compressed_air
G5115	Gas supply Medical	Gas_supply_Medical
G5116	Gas supply Laboratory	Gas_supply_Laboratory
G512	Liquid fuel supply	Liquid_fuel_supply
G5121	Liquid fuel supply Diesel	Liquid_fuel_supply_Diesel
G5122	Liquid fuel supply Petrol	Liquid_fuel_supply_Petrol
G5123	Liquid fuel supply Fuel oil	Liquid_fuel_supply_oil
G5124	Liquid fuel supply Biofuel	Liquid_fuel_supply_Biofuel
G513	Steam supply	Steam_supply
G5131	Steam and condensate	Steam_condensate
G52	Heating ventilation and air conditioning	HVAC
G521	Heating	Heating
G5211	Heating Low temperature hot water	Heating_Low_temp_HW
G5212	Heating Medium temperature hot water	Heating_Medium_temp_HW
G5213	Heating Steam	Heating_Steam
G522	Cooling	Cooling
G5221	Cooling Chilled water	Cooling_Chilled_water
G5222	Cooling Refrigerant	Cooling_Refrigerant
G523	Heating and cooling	HC
G5231	Heating and cooling Heat pump	HC_Heat_pump
G5232	Heating and cooling Variable refrigerant flow	HC_Variable_refrigerant_flow
G5233	Heating and cooling Underfloor heating and cooling	HC_Underfloor_HC
G5234	Heating and cooling Climatic ceiling and beam	HC_Climatic_ceiling_beam
G524	Air conditioning	AC
G5241	Air conditioning All air	AC_All_air
G5242	Air conditioning Fan coil unit	AC_Fan_coil_unit
G5243	Air conditioning Induction unit	AC_Induction_unit
G5245	Air conditioning Local	AC_Local
G5246	Air conditioning Air handling unit	AC_Air_handling_unit
G525	Ventilation	Ventilation
G5251	Ventilation Supply and extract	VSE
G52511	Ventilation Supply and extract Smoke and heat control	VSE_Smoke_heat_control
G5252	Ventilation Extract	VE
G52521	Ventilation Extract Washroom	VE_Washroom
G52522	Ventilation Extract Kitchen	VE_Kitchen
G52523	Ventilation Extract Car parking	VE_Car_parking
G52524	Ventilation Extract Dust collection systems	VE_Dust_collection
G52525	Ventilation Extract Safety cabinet and fume cupboard extract systems	VE_Safety_cabinet_fume_cupboard_extract

Code	Description	CAD Alias (Field 4)
G52526	Ventilation Extract Industrial fume extract systems	VE_Industrial_fume_extract
G52527	Ventilation Extract Tunnel ventilation	VE_Tunnel_ventilation
G5253	Ventilation Supply	Ventilation_Supply
G529	Heating ventilation and air conditioning For special activity	HVAC_FSA
G5291	Heating ventilation and air conditioning For special activity Cold room	HVAC_FSA_Cold_room
G5292	Heating ventilation and air conditioning For special activity Ice pad	HVAC_FSA_Ice_pad
G53	Electric power	EP
G531	Electric power supply	EPS
G5311	Electric power supply High voltage	EPS_High_voltage
G5312	Electric power supply Low voltage	EPS_Low_voltage
G5313	Electric power supply Generator	EPS_Generator
G5314	Electric power supply Wind power	EPS_Wind_power
G5315	Electric power supply Photovoltaic	EPS_Photovoltaic
G5316	Emergency power supply equipment	Emergency_power_supply equip
G53161	Emergency power supply equipment Local	Emergency_power_supply equip_Local
G53162	Emergency power supply equipment Central	Emergency_power_supply equip_Central
G532	Electric power Distribution	EP_Distribution
G5321	Electric power Distribution High voltage	EP_Distribution_High_voltage
G5322	Electric power Distribution Low voltage	EP_Distribution_Low_voltage
G5323	Electric power Distribution Small power	EP_Distribution_Small_power
G5324	Electric power Distribution Extra low voltage power	EP_Distribution_Extra_low_voltage_power
G5325	Electric power Distribution Direct Current power	EP_Distribution_Direct_Current_power
G5326	Electric power Distribution Uninterruptible power	EP_Distribution_Uninterruptible_power
G533	Electric power Monitoring and control	EP_MAC
G5331	Electric power Monitoring and control measuring	EP_MAC_measuring
G53311	Electric power Monitoring and control measuring Metering	EP_MAC_measuring_Metering
G5332	Electric power Monitoring and control measuring Control	EP_MAC_measuring_Control
G53321	Electric power Monitoring and control measuring Control Prevention	EP_MAC_measuring_Control_Prevention
G534	Electric power Monitoring and control Electrical terminals	EP_MAC_Elect_Terminal
G539	Electric power Monitoring and control For special activity	EP_MAC_FSA
G54	Electric power Lighting	EP_Light
G541	General lighting	Light
G5411	General lighting Internal	Light_Int

Code	Description	CAD Alias (Field 4)
G5412	General lighting External	Light_Ext
G542	General lighting Emergency	Light_Emergency
G5421	General lighting Emergency Self contained	Light_Emergency_Self_contained
G5422	General lighting Emergency Central battery	Light_Emergency_Central_battery
G5423	General lighting Emergency Static inverter	Light_Emergency_Static_inverter
G543	General lighting Monitoring and control	Light_MAC
G549	General lighting For special activity	Light_FSA
G5491	General lighting For special activity Underwater lighting systems	Light_FSA_ULS
G55	Communications	COMM
G551	Communications Public address	PA
G5511	Communications Public address Voice	PA_Voice
G5512	Communications Public address Music	PA_Music
G552	Communications Visual display	VD
G5521	Communications Signs	Sign
G55211	Communications Signs Illuminated	COMM_Sign_Illuminated
G55212	Communications Signs Advertisement	COMM_Sign_Advertisement
G5522	Communications Visual display Signs Clocks	COMM_VD_Sign_Clock
G5523	Communications Visual display Public address	COMM_VD_Public_address
G5534	Communications Visual display Railway signals	COMM_VD_Railway_signals
G553	Communications Radio	COMM_Radio
G554	Communications Audio visual	AV
G5541	Communications Audio visual Television	COMM_AV_TV
G5542	Communications Audio visual Presentation and conferencing	COMM_AV_Presentation
G5543	Communications Audio visual Audio alert	COMM_AV_Audio_alert
G5544	Communications Audio visual Breakdown broadcast message system	COMM_AV_Message_system
G555	Communications Telecommunications	COMM_Tele
G5551	Communications Telecommunications Telephones	COMM_Tele_phone
G556	Communications Data networks	COMM_Data
G5561	Communications Data networks Computer network	COMM_Data_Computer
G5562	Communications Data networks SCADA systems	COMM_Data_SCADA_System
G5563	Communications Data networks Fibreoptic networks	COMM_Data_Fibreoptic
G557	Communications Data networks Transmitters and receivers	COMM_Data_Transmitter
G558	Communications Data networks Support communication systems	COMM_Data_Support

Code	Description	CAD Alias (Field 4)
G559	Communications Data networks For special activity	COMM_Data_FSA
G5591	Communications Data networks For special activity Induction loop	COMM_Data_FSA_Induction_loop
G5592	Communications Data networks For special activity Infra red	COMM_Data_FSA_Infra_red
G5593	Communications Data networks For special activity Sound field	COMM_Data_FSA_Sound_field
G56	Building transport systems	BTS
G561	Building transport systems Lifts hoists	Lift
G5611	Building transport systems Lifts hoists Personnel	Lift_Personnel
G5612	Building transport systems Lifts hoists Goods	Lift_Good
G562	Building transport systems Escalators and moving walkways	BTS_EMW
G5621	Building transport systems Escalators and moving walkways Escalators	Escalator
G5622	Building transport systems Escalators and moving walkways Travelators	Travelator
G563	Building transport systems Escalators and moving walkways Building transport systems Conveyors	Conveyor
G564	Building transport systems Escalators and moving walkways Travelling cradles	Travelling_cradle
G5641	Building transport systems Escalators and moving walkways Travelling cradles Gantries and ladders	Gantry_ladder
G5642	Building transport systems Escalators and moving walkways Travelling cradles Travelling ladders	Travelling_ladder
G569	Building transport systems For special activity	BTS_FSA
G5691	Building transport systems For special activity Fire escape chutes and slings	BTS_FSA_Fire_escape
G5692	Building transport systems For special activity Automatic goods storage and retrieval	BTS_FSA_Automatic_good
G57	Fire security and protection (FSP)	FSP
G571	Fire security and protection Security	FSP_Security
G5711	Fire security and protection Security Access control systems	FSP_Access
G5712	Fire security and protection Security Intruder detection and alarm systems	FSP_Intruder
G5713	Fire security and protection Security Closed circuit television systems	FSP_CCTV
G5714	Fire security and protection Security Detection arch systems	FSP_Detection_arch_system

Code	Description	CAD Alias (Field 4)
G5715	Fire security and protection Security Personal protection	FSP_Personal_protection
G572	Fire security and protection Fire	FSP_Fire
G5721	Fire security and protection Fire and smoke alarms	FSP_Fire_smoke_alarm
G5722	Fire security and protection Fire suppression	FSP_FS
G57221	Fire security and protection Fire suppression Fire hose	FSP_Fire_hose
G57222	Fire security and protection Fire suppression Fire hydrant	FSP_Fire_hydrant
G57223	Fire security and protection Fire suppression Dry riser	FSP_Dry_riser
G57224	Fire security and protection Fire suppression Wet riser	FSP_Wet_riser
G57225	Fire security and protection Fire suppression Sprinkler fire-extinguishing	FSP_Sprinkler
G57226	Fire security and protection Fire suppression Deluge fire-extinguishing	FSP_Deluge
G57227	Fire security and protection Fire suppression Water mist fire-extinguishing	FSP_Water
G57228	Fire security and protection Fire suppression Gaseous fire-extinguishing	FSP_Gas
G57229	Fire security and protection Fire suppression Foam fire fighting`	FSP_Foam
G5723	Fire security and protection Fire Smoke extraction control installations	FSP_Smoke_extract
G5724	Fire security and protection Fire Detection	FSP_Fire_Detection
G5725	Fire security and protection Fire Fire protection	FSP_Fire_protection
G573	Fire security and protection Other protection	FSP_Other_protection
G5731	Fire security and protection Other protection Lightning protection	FSP_Other_protection_Lightning
G5732	Fire security and protection Other protection Cathodic protection	FSP_Other_protection_Cathodic
G574	Fire security and protection Safety	FSP_Safety
G5741	Fire security and protection Safety Detection	FSP_Detection
G57411	Fire security and protection Safety Detection Gas detection	FSP_Detection_Gas
G57412	Fire security and protection Safety Detection Water leak detection	FSP_Detection_Water_leak
G5742	Fire security and protection Communications	FSP_COMM
G57421	Fire security and protection Communications Evacuation	Evacuation

Code	Description	CAD Alias (Field 4)
G57422	Fire security and protection Communications Assistance call	Assistance_call
G57423	Fire security and protection Communications Incident call	Incident_call
G57424	Fire security and protection Communications Nurse call	Nurse_call
G575	Fire security and protection Alert system	FSP_Alert_system
G576	Fire security and protection Structural surface protection	FSP_Structural_surface_protection
G579	Fire security and protection For special activity	FSP_FSA
G58	Disposal systems	Disposal_System
G581	Drainage	Drainage
G5811	Drainage Foul Water	Drainage_FW
G58111	Drainage Foul Laboratory and industrial waste disposal systems	Drainage_FW_industrial_WDS
G58112	Drainage Foul Soakaways septic tanks and sewage treatment plant	Drainage_FW_plant
G58113	Drainage Foul Pumping stations and pressure pipelines	Drainage_FW_Pumping_station
G58114	Drainage Foul Sewage pumping	Drainage_FW_Sewage_pumping
G58115	Drainage Foul Sewage treatment and sterilisation systems	Drainage_FW_Sewage_treatment
G5812	Drainage Surface water	Drainage_SW
G58121	Drainage Surface water Ground water pressure relief drainage	Drainage_SW_GRD_pressure_relief
G58122	Drainage Surface water Rainwater drainage systems	Drainage_SW_Rainwater
G58123	Drainage Surface water Land drainage systems	Drainage_SW_Land
G58124	Drainage Surface water Sewage treatment systems	Drainage_SW_Sewage_treatment
G58125	Drainage Surface water Constructed wetlands	Drainage_SW_Constructed_wetland
G582	Refuse disposal	Refuse
G5821	Refuse disposal Centralised vacuum cleaning systems	Refuse_Centralised_vacuum_cleaning
G5822	Refuse disposal Refuse chutes	Refuse_chute
G5823	Refuse disposal Compactors macerators	Refuse_Compactor_macerator
G5824	Refuse disposal Incineration plant	Refuse_Incineration_plant
G589	Disposal systems For special activity	Disposal_System_FSA
G59	Services elements Other	Service_Other

Code	Description	CAD Alias (Field 4)
G6	Services parts of elements	Service_part
G61	Source energy	Source_energy
G611	Heat output	Heat_output
G6111	Heat output Heat generation	Heat_Generator
G61111	Heat output Heat generation Gas and oil fired boilers	Boiler_Gas_oil
G61112	Heat output Heat generation Solid fuel boilers	Boiler_Solid_fuel
G61113	Heat output Heat generation Steam boilers	Boiler_Steam
G61114	Heat output Heat generation Solar panels	Solar_panel
G6112	Heat output Heat conversion	Heat_conversion
G61121	Heat output Heat conversion Calorifiers	Calorifier
G61122	Heat output Heat conversion Heat exchangers	Heat_exchanger
G612	Electricity output	EO
G6121	Electricity output Electricity generation	Electricity_generation
G61211	Electricity output Diesel generators	Diesel_generator
G61212	Electricity output Wind generators	Wind_generator
G61213	Electricity output Solar generators	Solar_generator
G6122	Electricity output Electricity conversion	Electricity_conversion
G61221	Electricity output Electricity conversion Transformers	Electricity_Transformer
G61222	Electricity output Electricity conversion Converters	Electricity_Converter
G613	Cooling output	Cooling_output
G6131	Cooling output Refrigeration plant	Refrigeration_plant
G6132	Cooling output Heat pumps	Heat_pump
G614	Cooling output Combined heat power cooling	Power_cooling
G6141	Cooling output Combined heat power cooling plant plant	Power_cooling_Plant
G62	Non-energy treatment storage	NEES
G621	Non-energy treatment storage Tanks	NEES_Tank
G6211	Non-energy treatment storage Tanks Water	NEES_Tank_Water
G6212	Non-energy treatment storage Tanks Gas	NEES_Tank_Gas
G6213	Non-energy treatment storage Tanks Fuel	NEES_Tanks_Fuel
G63	Distribution	Distribution
G631	Distribution Ductwork	Ductwork
G632	Distribution Pipework	Pipework
G6321	Distribution Pipework Water	Pipework_Water
G6322	Distribution Pipework Gas	Pipework_Gas
G6323	Distribution Pipework Fuel	Pipework_Fuel

Code	Description	CAD Alias (Field 4)
G633	Distribution Cables and cable containment	CACC
G6331	Distribution Cables and cable containment Cables	Cable
G6332	Distribution Cables and cable containment Conduit	Conduit
G6333	Distribution Cables and cable containment Trunking	Trunking
G6334	Distribution Cables and cable containment Cable tray	Cable_tray
G634	Distribution Pumps	pump
G6341	Distribution Pumps Belt driven	pump_Belt_driven
G6342	Distribution Pumps Close coupled	pump_Close_coupled
G6343	Distribution Pumps Sump	pump_Sump
G6344	Distribution Pumps Manual	pump_Manual
G635	Distribution Fans	Fans
G6351	Distribution Fans Centrifugal	Fans_Centrifugal
G6352	Distribution Fans Axial	Fans_Axial
G6353	Distribution Fans Roof mounted	Fans_Roof_mounted
G6354	Distribution Fans Mixed flow	Fans_Mixed_flow
G64	Terminals	Terminal
G641	Terminals Heat emitters	Terminal_Heat_emitter
G6411	Terminals Heat emitters Radiators	Radiator
G6412	Terminals Heat emitters Fan convectors	Fan_Convector
G6413	Terminals Heat emitters Natural convectors	Natural_Convector
G6414	Terminals Heat emitters Radiant panels	Radiant_panel
G6415	Terminals Heat emitters Unit heaters	Unit_heater
G642	Terminals Supply and extract ventilation	Ventilation
G6421	Terminals Supply and extract ventilation Grilles	Ventilation_Grill
G6422	Terminals Supply and extract ventilation Diffusers	Ventilation_Diffuser
G6423	Terminals Supply and extract ventilation Louvres	Ventilation_Louvre
G643	Terminals Electrical	Terminal_Elect
G6431	Terminals Electrical Luminaires	Luminaire
G6432	Terminals Electrical Power outlets	Power_outlet
G6433	Terminals Electrical Switches	Elect_Switch
G65	Terminals Package units	Package_unit
G66	Terminals Monitoring and control	MAC
G661	Terminals Monitoring and control Control systems	Control_system
G662	Terminals Monitoring and control Monitoring systems	Monitoring_system
G6621	Terminals Monitoring and control Monitoring systems Measuring	Monitoring_system_Measuring

Code	Description	CAD Alias (Field 4)
G663	Terminals Monitoring and control Building management systems	BMS
G69	Terminals Other parts of services elements	Terminal_Other
G7	External site works	Site
G71	External site works Surface treatment	Site_Surface_treatment
G711	External site works Surface treatment Hard surfaces	Site_Hard_surface
G712	External site works Surface treatment Landscaping	Site_Landscaping
G72	External site works Enclosure division	Site_Enclosure
G721	External site works Enclosure division External works Fencing and walling and hedges	Site_Fence
G722	External site works Enclosure division Retaining walls	Site_Retaining_Wall
G723	External site works Enclosure division Stone walls	Site_Stone_Wall
G7231	External site works Enclosure division Stone walls Dry stone walling	Site_Stone_Wall_Dry
G7232	External site works Enclosure division Stone walls Mortared stone walling	Site_Stone_Wall_Mortared
G73	External site works Special purpose works	Site_SPW
G731	External site works Special purpose works Water features pools	Site_Pool
G732	External site works Special purpose works Shelters and minor buildings	Site_minor_building
G733	External site works Special purpose works Bridges underpasses	Site_Bridge_underpass
G739	External site works Special purpose works Other	Site_SPW_Other
G74	External site works Fittings furniture equipment	Site_FFE
G75	External site works Mains supply	Site_Main_supply
G751	External site works Mains supply Water	Site_Main_Water
G752	External site works Mains supply Fire	Site_Main_Fire
G753	External site works Mains supply Hot water steam	Site_Main_Hot_water_steam
G754	External site works Mains supply Gas	Site_Main_Gas
G755	External site works Mains supply Electric	Site_Main_Electric
G756	External site works Mains supply Communications cable	Site_Main_COMM_cable
G76	External site works External distributed services	Site_External_dist_Service
G761	External site works External distributed services Lighting	Site_External_dist_Service_Lighting

Code	Description	CAD Alias (Field 4)
G762	External site works External distributed services Other	Site_External_dist_Service_Other
G77	External site works Site underground drainage	Site_Drainage
G771	External site works Site underground drainage Foul water drainage	Site_FW_drainage
G772	External site works Site underground drainage Surface water drainage	Site_SW_drainage
G773	External site works Site underground drainage Combined water drainage	Site_Drainage_Combined

Table Z CAD Classification Code / Alias

Table Z for Uniclass version 1.4 allows the classification of Computer Aided Design specific data:

Code	Description	CAD Alias (Field 4)
Z1	Title sheet	Title_sheet
Z11	Drawing frame	Drawing_Frame
Z111	Viewports	Viewport
Z12	Status stamps	Status_stamp
Z13	Revisions	Revision
Z131	Revision blocks and cells	Revision_block
Z132	Revision annotation	Revision_annotation
Z133	Revision clouds and notations	Revision_cloud
Z14	Hold clouds and notation	Hold_cloud
Z2	Textual Content	Textual_Context
Z21	Title Annotation	Title_annotation
Z22	Annotation	Annotation
Z221	General text	Text
Z2211	Tags	Tag
Z2212	Labels	Label
Z2213	References	Reference
Z222	General notes	Note
Z223	Keynoting	Keynote
Z224	Legends	Legend
Z225	Cross references	Cross_reference
Z226	Key plan	Key_plan
Z227	Bar scales	Barscale
Z228	North point	North_point
Z23	Dimensions	Dimension
Z24	Hatching	Hatch
Z241	Hatch boundaries	Hatch_boundary
Z242	Solid Fill	Solid_Fill
Z25	General masking	General_masking
Z251	Wipe Outs and Masks	Wipe_out
Z26	General redlining	General_redlining
Z3	Insertions	Insertion
Z31	External references	Xref
Z32	Blocks and cells	Block
Z33	Tables and schedules	Schedule
Z34	Images	Image

Code	Description	CAD Alias (Field 4)
Z4	Setting out	Setting_out
Z41	Points	Point
Z42	Gridlines	Gridline
Z421	Structural grid	Structural_grid
Z422	Ceiling grid	Ceiling_grid
Z43	Centrelines	Centreline
Z44	Survey control points	Survey_control_point
Z441	OS Trigonometrical station	OS_trig_station
Z442	Site survey control station	Survey_control_station
Z443	OS bench mark	OS_BM
Z444	Site bench mark	Site_BM
Z45	Alignments and super elevations	Alignment
Z451	Horizontal alignment	Horizontal_alignment
Z452	Vertical alignment	Vertical_alignment
Z453	Super elevation	Super_elevation
Z46	Zones and boundaries	Zone_boundary
Z461	Zones	Zone
Z462	Boundaries	Boundary
Z463	Parcels	Parcel
Z464	Lots	Lot
Z47	Topography	Topo
Z471	Contours	Contour
Z4711	Contours Major	Contour_Major
Z4712	Contour Minor	Contour_Minor
Z5	Drawing symbols	Dwg_symbol
Z51	Levels	Level
Z52	Markers	Marker
Z521	Section marks	Section_mark
Z522	Break marks	Break_mark
Z523	Span direction markers	Span_mark
Z524	Void and opening markers	Void
Z53	Detail call outs	Detail
Z54	Match lines	Match_line
Z55	Fall indicators	Fall_indicator
Z56	Joint lines	Joint_line
Z561	Construction joints	Construction_joint
Z562	Contraction joints	Contraction_joint
Z563	Expansion joints	Expansion_joint

Code	Description	CAD Alias (Field 4)
Z6	Views	View
Z61	General sections	Section
Z62	General elevations	Elevation
Z63	General Details	Detail
Z64	General Plans	Plan
Z7	Presentation	Presentation
Z71	Vehicles	Vehicle
Z72	People	People
Z73	Trees and planting	Tree_planting
Z75	Area Fill	Area_fill
Z76	Pattern	Pattern
Z77	LINES	Line
Z771	Lines Fine	Line_Fine
Z772	Lines Thin	Line_Thin
Z773	Lines Light	Line_Light
Z774	Lines Medium	Line_Medium
Z775	Lines Heavy	Line_Heavy
Z776	Lines Wide	Line_Wide
Z777	Lines Extra Wide	Line_Extra_Wide
Z778	Lines XX Wide	Line_XX_Wide
Z779	Lines XXX Wide	Line_XXX_Wide
Z78	Concept Massing	Mass
Z8	Readme and non-plotting	Non_Plot
Z81	Construction lines	Con
Z82	Readme	Readme
Z83	External reference information	XREF_Info

Appendix B - Uniclass Version 1.4 Tables by Alphabetical Index

Table F Spaces, Classification Codes / Alias (Alphabetical Index)

Description	Code	Alias
Activity space	F41	Activity_space
Air locks	F351	Air_lock
Alcoves, niches	F44	Alcove_niche
Atria	F317	Atria
Basement	F132	Basement
Basement areas	F62	Basement_area
Bays	F122	Space_Bay
Building space analysed	F9	Area
Building space analysed according to ISO 9836:1992	F91	Area_ISO_9836
Building space analysed according to RICS and ISVA Code of measuring practice	F92	Space
Building spaces by degree and type of enclosure	F7	Space_Building_Enclosure
Building sub-spaces	F4	Building_sub-space
Central halls, lobbies	F321	Lobby
Circulation area	F912	Area_Circulation
Circulation spaces	F3	Space_Circulation
Cloisters	F338	Cloister
Compound spaces of buildings	F1	Space
Core	F123	Space_Core
Corridors	F327	Corridor
Courtyards, forecourts	F61	Courtyard_forecourt
Covered ways	F337	Covered_way
Covered, not enclosed space	F74	Space_Covered_not_enclosed
Crawlways	F344	Crawlway
Danger area	F85	Space_Danger
Dry areas	F63	Dry_area
Eleventh floor	F13611	Eleventh_floor
Entrance halls, foyers	F314	Entrance_hall
External balconies	F332	External_balcony
External spaces of buildings	F6	Space_External
Fire compartments	F81	Fire_compartment
First floor	F13601	First_floor
First floor and above, but below highest floor	F136	Upper_Floors
Free space	F71	Space_Free
Fully enclosed space	F75	Space_Fully_enclosed
Gangways	F334	Gangway
Gross area	F919	Area_Gross
Ground floor	F134	Ground_floor
Highest floor	F137	Highest_floor

Horizontally divided parts of buildings, storeys	F13	Space_Horizontal
Incidental space, voids	F45	Space_void
Internal balconies, galleries	F331	Internal_balcony
Internal spaces of buildings	F5	Space_Internal
Light wells	F64	Light_well
Mezzanine floor	F135	Mezzanine_floor
Miscellaneous spaces, other spaces	F8	Space_Misc
Net Internal Area	F921	Area_Net_Internal
Ninety-ninth floor	F13699	Ninety-ninth_floor
Not covered, enclosed space	F73	Space_Not_covered_enclosed
Occupied space	F43	Occupied_space
Open space	F72	Space_Open
Other circulation spaces	F399	Space_Other_circulation
Other compound spaces, zones	F19	Space_compound_zone
Other spaces	F89	Space_Other
Partly covered	F731	Space_Partly_covered
Passages, alleys	F341	Passage_alley
Porches	F311	Porche
Private space	F83	Space_Private
Protected space	F82	Space_Protected
Public space	F84	Space_Public
Rooms	F2	Room
Second floor	F13602	Second_floor
Semi-basement	F133	Semi-basement
Semi-independent parts of a building, blocks	F11	Space_Block
Services area	F913	Area_Service
Space beneath a sloping roof, attic	F138	Space_attic
Space on top of a flat roof	F139	Space_flat_roof
Spaces	F	Space
Stairs, lift shafts, escalators	F324	Vertical_Circulation
Structural element area	F914	Area_Structural_element
Sub-basement	F131	Sub-basement
Tenth floor	F13610	Tenth_floor
Terraces	F65	Terrace
Third floor	F13603	Third_floor
Usable area	F911	Area_Usable
User functional departments	F191	Department
Verandahs	F651	Verandah
Vertically divided parts of buildings	F12	Space_Vertical
Wings	F121	Space_Wing
Working space	F42	Working_space

**Table G Elements for Building and Civil, Classification Code / Alias
(Alphabetical Index)**

Description	Code	Alias
Air conditioning	G524	AC
Air conditioning Air handling unit	G5246	AC_Air_handling_unit
Air conditioning All air	G5241	AC_All_air
Air conditioning Fan coil unit	G5242	AC_Fan_coil_unit
Air conditioning Induction unit	G5243	AC_Induction_unit
Air conditioning Local	G5245	AC_Local
Beams	G261	Beam
Beams Cast iron	G2614	Beam_Cast_iron
Beams Insitu concrete	G2611	Beam_Insitu_concrete
Beams Precast concrete	G2612	Beam_Precast_concrete
Beams Steel	G2613	Beam_Steel
Bearings	G266	Bearing
Bearings Elastomeric	G2664	Bearing_Elastomeric
Bearings Fixed	G2661	Bearing_Fixed
Bearings Roller	G2663	Bearing_Roller
Bearings Sliding bearing PTFE	G2662	Bearing_Sliding_bearing_PTFE
Bracing	G263	Bracing
Bracing Insitu concrete	G2631	Bracing_Insitu_concrete
Bracing Precast concrete	G2632	Bracing_Precast_concrete
Bracing Steel	G2633	Bracing_Steel
Building transport systems	G56	BTS
Building transport systems Escalators and moving walkways	G562	BTS_EMW
Building transport systems Escalators and moving walkways Travelling cradles Travelling ladders	G5642	Travelling_ladder
Building transport systems Escalators and moving walkways Building transport systems Conveyors	G563	Conveyor
Building transport systems Escalators and moving walkways Escalators	G5621	Escalator
Building transport systems Escalators and moving walkways Travelators	G5622	Travelator
Building transport systems Escalators and moving walkways Travelling cradles	G564	Travelling_cradle
Building transport systems Escalators and moving walkways Travelling cradles Gantries and ladders	G5641	Gantry_ladder
Building transport systems For special activity	G569	BTS_FSA
Building transport systems For special activity Automatic goods storage and retrieval	G5692	BTS_FSA_Automatic_good
Building transport systems For special activity Fire escape chutes and slings	G5691	BTS_FSA_Fire_escape
Building transport systems Lifts hoists	G561	Lift

Building transport systems Lifts hoists Goods	G5612	Lift_Good
Building transport systems Lifts hoists Personnel	G5611	Lift_Personnel
Carcass structure fabric	G31	Carcass_structure_fabric
Civils	G8	Civil
Columns	G262	Column
Columns Insitu concrete	G2621	Column_Insitu_concrete
Columns Mass concrete	G2624	Column_Mass_concrete
Columns Precast concrete	G2622	Column_Precast_concrete
Columns Steel	G2623	Column_Steel
Combined Openings	G324	Opening_Combined
Communications	G55	COMM
Communications Audio visual	G554	AV
Communications Audio visual Audio alert	G5543	COMM_AV_Audio_alert
Communications Audio visual Breakdown broadcast message system	G5544	COMM_AV_Message_system
Communications Audio visual Presentation and conferencing	G5542	COMM_AV_Presentation
Communications Audio visual Television	G5541	COMM_AV_TV
Communications Data networks	G556	COMM_Data
Communications Data networks Computer network	G5561	COMM_Data_Computer
Communications Data networks Fibreoptic networks	G5563	COMM_Data_Fibreoptic
Communications Data networks For special activity	G559	COMM_Data_FSA
Communications Data networks For special activity Induction loop	G5591	COMM_Data_FSA_Induction_loop
Communications Data networks For special activity Infra red	G5592	COMM_Data_FSA_Infra_red
Communications Data networks For special activity Sound field	G5593	COMM_Data_FSA_Sound_field
Communications Data networks SCADA systems	G5562	COMM_Data_SCADA_System
Communications Data networks Support communication systems	G558	COMM_Data_Support
Communications Data networks Transmitters and receivers	G557	COMM_Data_Transmitter
Communications Public address	G551	PA
Communications Public address Music	G5512	PA_Music
Communications Public address Voice	G5511	PA_Voice
Communications Radio	G553	COMM_Radio
Communications Signs	G5521	Sign
Communications Signs Advertisement	G55212	COMM_Sign_Advertisement
Communications Signs Illuminated	G55211	COMM_Sign_Illuminated
Communications Telecommunications	G555	COMM_Tele
Communications Telecommunications Telephones	G5551	COMM_Tele_phone
Communications Visual display	G552	VD
Communications Visual display Public address	G5523	COMM_VD_Public_address
Communications Visual display Railway signals	G5534	COMM_VD_Railway_signals
Communications Visual display Signs Clocks	G5522	COMM_VD_Sign_Clock

Cooling	G522	Cooling
Cooling Chilled water	G5221	Cooling_Chilled_water
Cooling output	G613	Cooling_output
Cooling output Combined heat power cooling	G614	Power_cooling
Cooling output Combined heat power cooling plant plant	G6141	Power_cooling_Plant
Cooling output Heat pumps	G6132	Heat_pump
Cooling output Refrigeration plant	G6131	Refrigeration_plant
Cooling Refrigerant	G5222	Cooling_Refrigerant
Core fabric	G311	Core_fabric
Coverings external finishes	G312	Coverings_Ext_finish
Curtain Wall Cladding Grid	G2574	Curt_Wall_Grids
Curtain Wall Cladding Panels	G2572	Curt_Wall_Panel
Curtain Wall Cladding Units	G2573	Curt_Wall_Unit
Curtain Wall Framing	G2571	Curt_Wall_Frame
Curtain Walls	G257	Curt_Wall
Disposal systems	G58	Disposal_System
Disposal systems For special activity	G589	Disposal_System_FSA
Distribution	G63	Distribution
Distribution Cables and cable containment	G633	CACC
Distribution Cables and cable containment Cable tray	G6334	Cable_tray
Distribution Cables and cable containment Cables	G6331	Cable
Distribution Cables and cable containment Conduit	G6332	Conduit
Distribution Cables and cable containment Trunking	G6333	Trunking
Distribution Ductwork	G631	Ductwork
Distribution Fans	G635	Fans
Distribution Fans Axial	G6352	Fans_Axial
Distribution Fans Centrifugal	G6351	Fans_Centrifugal
Distribution Fans Mixed flow	G6354	Fans_Mixed_flow
Distribution Fans Roof mounted	G6353	Fans_Roof_mounted
Distribution Pipework	G632	Pipework
Distribution Pipework Fuel	G6323	Pipework_Fuel
Distribution Pipework Gas	G6322	Pipework_Gas
Distribution Pipework Water	G6321	Pipework_Water
Distribution Pumps	G634	pump
Distribution Pumps Belt driven	G6341	pump_Belt_driven
Distribution Pumps Close coupled	G6342	pump_Close_coupled
Distribution Pumps Manual	G6344	pump_Manual
Distribution Pumps Sump	G6343	pump_Sump
Doors	G322	Door
Doors_External	G3221	Door_Ext
Doors_Internal	G3222	Door_Int
Drainage	G581	Drainage
Drainage Foul Laboratory and industrial waste disposal systems	G58111	Drainage_FW_industrial_WDS
Drainage Foul Pumping stations and pressure	G58113	Drainage_FW_Pumping_station

pipelines

Drainage Foul Sewage pumping	G58114	Drainage_FW_Sewage_pumping
Drainage Foul Sewage treatment and sterilisation systems	G58115	Drainage_FW_Sewage_treatment
Drainage Foul Soakaways septic tanks and sewage treatment plant	G58112	Drainage_FW_plant
Drainage Foul Water	G5811	Drainage_FW
Drainage Surface water	G5812	Drainage_SW
Drainage Surface water Constructed wetlands	G58125	Drainage_SW_Constructed_wetland
Drainage Surface water Ground water pressure relief drainage	G58121	Drainage_SW_GRD_pressure_relief
Drainage Surface water Land drainage systems	G58123	Drainage_SW_Land
Drainage Surface water Rainwater drainage systems	G58122	Drainage_SW_Rainwater
Drainage Surface water Sewage treatment systems	G58124	Drainage_SW_Sewage_treatment
Electric power	G53	EP
Electric power Distribution	G532	EP_Distribution
Electric power Distribution Direct Current power	G5325	EP_Distribution_Direct_Current_power EP_Distribution_Extra_low_voltage_po wer
Electric power Distribution Extra low voltage power	G5324	
Electric power Distribution High voltage	G5321	EP_Distribution_High_voltage
Electric power Distribution Low voltage	G5322	EP_Distribution_Low_voltage
Electric power Distribution Small power	G5323	EP_Distribution_Small_power
Electric power Distribution Uninterruptible power	G5326	EP_Distribution_Uninterruptible_power
Electric power Lighting	G54	EP_Light
Electric power Monitoring and control	G533	EP_MAC
Electric power Monitoring and control Electrical terminals	G534	EP_MAC_Elect_Terminal
Electric power Monitoring and control For special activity	G539	EP_MAC_FSA
Electric power Monitoring and control measuring	G5331	EP_MAC_measuring
Electric power Monitoring and control measuring Control	G5332	EP_MAC_measuring_Control
Electric power Monitoring and control measuring Control Prevention	G53321	EP_MAC_measuring_Control_Preventio n
Electric power Monitoring and control measuring Metering	G53311	EP_MAC_measuring_Metering
Electric power supply	G531	EPS
Electric power supply Generator	G5313	EPS_Generator
Electric power supply High voltage	G5311	EPS_High_voltage
Electric power supply Low voltage	G5312	EPS_Low_voltage
Electric power supply Photovoltaic	G5315	EPS_Photovoltaic
Electric power supply Wind power	G5314	EPS_Wind_power
Electricity output	G612	EO
Electricity output Diesel generators	G61211	Diesel_generator
Electricity output Electricity conversion	G6122	Electricity_conversion
Electricity output Electricity conversion Converters	G61222	Electricity_Converter
Electricity output Electricity conversion Transformers	G61221	Electricity_Transformer

Electricity output Electricity generation	G6121	Electricity_generation
Electricity output Solar generators	G61213	Solar_generator
Electricity output Wind generators	G61212	Wind_generator
Emergency power supply equipment	G5316	Emergency_power_supply equip
Emergency power supply equipment Central	G53162	Emergency_power_supply equip_Cent ral
Emergency power supply equipment Local	G53161	Emergency_power_supply equip_Local
External site works	G7	Site
External site works Enclosure division	G72	Site_Enclosure
External site works Enclosure division External works		
Fencing and walling and hedges	G721	Site_Fence
External site works Enclosure division Retaining walls	G722	Site_Retaining_Wall
External site works Enclosure division Stone walls	G723	Site_Stone_Wall
External site works Enclosure division Stone walls		
Dry stone walling	G7231	Site_Stone_Wall_Dry
External site works Enclosure division Stone walls		
Mortared stone walling	G7232	Site_Stone_Wall_Mortared
External site works External distributed services	G76	Site_External_dist_Service
External site works External distributed services		
Lighting	G761	Site_External_dist_Service_Lighting
External site works External distributed services		
Other	G762	Site_External_dist_Service_Other
External site works Fittings furniture equipment	G74	Site_FFE
External site works Mains supply	G75	Site_Main_supply
External site works Mains supply Communications		
cable	G756	Site_Main_COMM_cable
External site works Mains supply Electric	G755	Site_Main_Electric
External site works Mains supply Fire	G752	Site_Main_Fire
External site works Mains supply Gas	G754	Site_Main_Gas
External site works Mains supply Hot water steam	G753	Site_Main_Hot_water_steam
External site works Mains supply Water	G751	Site_Main_Water
External site works Site underground drainage	G77	Site_Drainage
External site works Site underground drainage		
Combined water drainage	G773	Site_Drainage_Combined
External site works Site underground drainage Foul		
water drainage	G771	Site_FW_drainage
External site works Site underground drainage		
Surface water drainage	G772	Site_SW_drainage
External site works Special purpose works	G73	Site_SPW
External site works Special purpose works Bridges		
underpasses	G733	Site_Bridge_underpass
External site works Special purpose works Other	G739	Site_SPW_Other
External site works Special purpose works Shelters		
and minor buildings	G732	Site_minor_building
External site works Special purpose works Water		
features pools	G731	Site_Pool
External site works Surface treatment	G71	Site_Surface_treatment

External site works Surface treatment Hard surfaces	G711	Site_Hard_surface
External site works Surface treatment Landscaping	G712	Site_Landscaping
Fabric complete elements	G2	Fabric_complete_element
Fabric parts of elements	G3	Fabric
FFE Circulation	G41	FFE_Circulation
FFE Circulation Access	G411	FFE_CA
FFE Circulation Access Depot and plant equipment access	G4111	FFE_CA_Depot_plant equip_access
FFE Cleaning maintenance CM	G45	FFE_CM
FFE Cleaning maintenance Depot cleaning and maintenance	G451	FFE_CM__DCAM_
FFE Cleaning maintenance Depot cleaning and maintenance Cleaning equipment	G4511	FFE_CM__DCAM_Cleaning
FFE Cleaning maintenance Depot cleaning and maintenance De-icing	G4513	FFE_CM__DCAM__De-icing
FFE Cleaning maintenance Depot cleaning and maintenance Equipment maintenance	G4512	FFE_CM__DCAM_maintenance
FFE Culinary	G43	FFE_Culinary
FFE Other	G49	FFE_Other
FFE Other General equipment	G491	FFE_Other_GEN_EQUIP
FFE Other General equipment Depot and plant	G4911	FFE_Other_GEN_EQUIP_Depot_plant
FFE Other Lifting equipment	G494	FFE_Other_Lifting_equipment
FFE Other Monitoring equipment	G492	FFE_Other_MON_EQUIP
FFE Other Monitoring equipment Test equipment	G4922	FFE_Other_MON_EQUIP_Test equip
FFE Other Monitoring equipment Track based	G4921	FFE_Other_MON_EQUIP_Track_based
FFE Other Workshop equipment	G493	FFE_Other_Workshop_equipment
FFE Rest work	G42	FFE_Rest_work
FFE Sanitary hygiene	G44	FFE_Sanitary
FFE Special activity	G48	FFE_SA
FFE Storage screening	G46	FFE_Storage
FFE Works or art and soft furnishings	G47	FFE_WOAASF
FFE Works or art and soft furnishings Soft furnishings	G472	FFE_Soft_furnishing
FFE Works or art and soft furnishings Works of art	G471	FFE_Works_of_art
Fire security and protection (FSP)	G57	FSP
Fire security and protection Alert system	G575	FSP_Alert_system
Fire security and protection Communications	G5742	FSP_COMM
Fire security and protection Communications Assistance call	G57422	Assistance_call
Fire security and protection Communications Evacuation	G57421	Evacuation
Fire security and protection Communications Incident call	G57423	Incident_call
Fire security and protection Communications Nurse call	G57424	Nurse_call
Fire security and protection Fire	G572	FSP_Fire
Fire security and protection Fire and smoke alarms	G5721	FSP_Fire_smoke_alarm
Fire security and protection Fire Detection	G5724	FSP_Fire_Detection

Fire security and protection Fire Fire protection	G5725	FSP_Fire_protection
Fire security and protection Fire Smoke extraction control installations	G5723	FSP_Smoke_extract
Fire security and protection Fire suppression	G5722	FSP_FS
Fire security and protection Fire suppression Deluge fire-extinguishing	G57226	FSP_Deluge
Fire security and protection Fire suppression Dry riser	G57223	FSP_Dry_riser
Fire security and protection Fire suppression Fire hose	G57221	FSP_Fire_hose
Fire security and protection Fire suppression Fire hydrant	G57222	FSP_Fire_hydrant
Fire security and protection Fire suppression Foam fire fighting`	G57229	FSP_Foam
Fire security and protection Fire suppression Gaseous fire-extinguishing	G57228	FSP_Gas
Fire security and protection Fire suppression Sprinkler fire-extinguishing	G57225	FSP_Sprinkler
Fire security and protection Fire suppression Water mist fire-extinguishing	G57227	FSP_Water
Fire security and protection Fire suppression Wet riser	G57224	FSP_Wet_riser
Fire security and protection For special activity	G579	FSP_FSA
Fire security and protection Other protection	G573	FSP_Other_protection
Fire security and protection Other protection Cathodic protection	G5732	FSP_Other_protection_Cathodic
Fire security and protection Other protection Lightning protection	G5731	FSP_Other_protection_Lightning
Fire security and protection Safety	G574	FSP_Safety
Fire security and protection Safety Detection	G5741	FSP_Detection
Fire security and protection Safety Detection Gas detection	G57411	FSP_Detection_Gas
Fire security and protection Safety Detection Water leak detection	G57412	FSP_Detection_Water_leak
Fire security and protection Security	G571	FSP_Security
Fire security and protection Security Access control systems	G5711	FSP_Access
Fire security and protection Security Closed circuit television systems	G5713	FSP_CCTV
Fire security and protection Security Detection arch systems	G5714	FSP_Detection_arch_system
Fire security and protection Security Intruder detection and alarm systems	G5712	FSP_Intruder
Fire security and protection Security Personal protection	G5715	FSP_Personal_protection
Fire security and protection Structural surface protection	G576	FSP_Structural_surface_protection

Fittings furniture equipment FFE	G4	FFE
Floors	G22	Floor
Foundations	G21	Foundation
Foundations	G211	Foundation_Other
Foundations Cassions	G219	Foundation_Cassion
Foundations Compensated	G213	Foundation_Compensated
Foundations Pad	G218	Foundation_Pad
Foundations Pier	G212	Foundation_Pier
Foundations Pile Caps	G214	Foundation_Pile_Cap
Foundations Pile Caps Insitu concrete	G2141	Foundation_Pile_Cap_Insitu
Foundations Pile Caps Precast concrete	G2142	Foundation_Pile_Cap_Precast
Foundations Piles	G215	Foundation_pile
Foundations Piles End bearing	G2152	Foundation_pile_End_bearing
Foundations Piles Friction	G2153	Foundation_pile_Friction
Foundations Piles Infill	G2157	Foundation_pile_Infill
Foundations Piles Insitu concrete	G2151	Foundation_pile_Insitu
Foundations Piles Laterally loaded	G2156	Foundation_pile_Laterally_loaded
Foundations Piles Settlement reducing	G2154	Foundation_pile_Settlement_reducing
Foundations Piles Tension	G2155	Foundation_pile_Tension
Foundations Raft	G217	Foundation_Raft
Foundations Strip	G216	Foundation_Strip
Frame isolated structural members	G26	Struct_member
Gas and liquid supply	G51	Gas_liquid_supply
Gas supply	G511	Gas_supply
Gas supply Biogas	G5113	Gas_supply_Biogas
Gas supply Compressed air	G5114	Gas_supply_Compressed_air
Gas supply Laboratory	G5116	Gas_supply_Laboratory
Gas supply Liquefied petroleum	G5112	Gas_supply_petrol
Gas supply Medical	G5115	Gas_supply_Medical
Gas supply Natural	G5111	Gas_supply_Natural
General lighting	G541	Light
General lighting Emergency	G542	Light_Emergency
General lighting Emergency Central battery	G5422	Light_Emergency_Central_battery
General lighting Emergency Self contained	G5421	Light_Emergency_Self_contained
General lighting Emergency Static inverter	G5423	Light_Emergency_Static_inverter
General lighting External	G5412	Light_Ext
General lighting For special activity	G549	Light_FSA
General lighting For special activity Underwater lighting systems	G5491	Light_FSA_U LS
General lighting Internal	G5411	Light_Int
General lighting Monitoring and control	G543	Light_MAC
Heat output	G611	Heat_output
Heat output Heat conversion	G6112	Heat_conversion
Heat output Heat conversion Calorifiers	G61121	Calorifier
Heat output Heat conversion Heat exchangers	G61122	Heat_exchanger
Heat output Heat generation	G6111	Heat_Generator

Heat output Heat generation Gas and oil fired boilers	G61111	Boiler_Gas_oil
Heat output Heat generation Solar panels	G61114	Solar_panel
Heat output Heat generation Solid fuel boilers	G61112	Boiler_Solid_fuel
Heat output Heat generation Steam boilers	G61113	Boiler_Steam
Heating	G521	Heating
Heating and cooling	G523	HC
Heating and cooling Climatic ceiling and beam	G5234	HC_Climatic_ceiling_beam
Heating and cooling Heat pump	G5231	HC_Heat_pump
Heating and cooling Underfloor heating and cooling	G5233	HC_Underfloor_HC
Heating and cooling Variable refrigerant flow	G5232	HC_Variable_refrigerant_flow
Heating Low temperature hot water	G5211	Heating_Low_temp_HW
Heating Medium temperature hot water	G5212	Heating_Medium_temp_HW
Heating Steam	G5213	Heating_Steam
Heating ventilation and air conditioning	G52	HVAC
Heating ventilation and air conditioning For special activity	G529	HVAC_FSA
Heating ventilation and air conditioning For special activity Cold room	G5291	HVAC_FSA_Cold_room
Heating ventilation and air conditioning For special activity Ice pad	G5292	HVAC_FSA_Ice_pad
Internal finishes	G33	Int_Fin
Internal finishes Ceilings Soffit	G332	Ceiling
Internal finishes Ceilings Soffit Direct	G3321	Ceiling_Soffit_Direct
Internal finishes Ceilings Soffit Suspended	G3322	Ceiling_Soffit_Suspended
Internal finishes Floors	G331	Int_Fin_Floor
Internal finishes Floors Direct	G3311	Int_Fin_Floor_Direct
Internal finishes Floors Raised	G3312	Int_Fin_Floor_Raised
Internal finishes Other	G334	Int_Fin_Other
Internal finishes Wall	G333	Int_Fin_Wall
Liquid fuel supply	G512	Liquid_fuel_supply
Liquid fuel supply Biofuel	G5124	Liquid_fuel_supply_Biofuel
Liquid fuel supply Diesel	G5121	Liquid_fuel_supply_Diesel
Liquid fuel supply Fuel oil	G5123	Liquid_fuel_supply_oil
Liquid fuel supply Petrol	G5122	Liquid_fuel_supply_Petrol
Non-energy treatment storage	G62	NEES
Non-energy treatment storage Tanks	G621	NEES_Tank
Non-energy treatment storage Tanks Fuel	G6213	NEES_Tanks_Fuel
Non-energy treatment storage Tanks Gas	G6212	NEES_Tank_Gas
Non-energy treatment storage Tanks Water	G6211	NEES_Tank_Water
Openings	G32	Opening
Openings	G323	Opening
Openings_Arches	G3231	Opening_Arch
Other parts of fabric elements	G34	Fabric_Other
Piers and abutments	G264	Pier_abutment
Refuse disposal	G582	Refuse
Refuse disposal Centralised vacuum cleaning systems	G5821	Refuse_Centralised_vacuum_cleaning

Refuse disposal Compactors macerators	G5823	Refuse_Compactor_macerator
Refuse disposal Incineration plant	G5824	Refuse_Incineration_plant
Refuse disposal Refuse chutes	G5822	Refuse_chute
Roads	G81	Road
Roads Elements	G811	Road_Element
Roads Elements Edgework	G8113	Road_Edgework
Roads Elements Structural layers	G8111	Road_Structure
Roads Elements Surfacing	G8112	Road_Surfacing
Roads Features	G812	Road_Feature
Roads Features Central reservations	G8121	Road_Central_reservation
Roads Features Islands	G8122	Road_Island
Roads Features Road markings	G8125	Road_marking
Roads Features Roundabouts	G8123	Road_Roundabout
Roads Features Traffic calming	G8124	Road_Traffic_calming
Roads Footpaths	G814	Road_Footpath
Roads Pavements	G813	Road_pavement
Roads Pavements Flexible	G8133	Road_pavement_Flex
Roads Pavements Flexible composite	G8134	Road_pavement_Flex_composite
Roads Pavements Rigid	G8131	Road_pavement_Rigid
Roads Pavements Rigid composite	G8132	Road_pavement_Rigid_composite
Roads Tunnels shafts cuttings	G82	Road_TSC
Roads Tunnels shafts cuttings Structure formation	G821	Road_TSC_SF
Roads Tunnels shafts cuttings Structure formation Gallery	G8213	Road_TSC_SF_Gallery
Roads Tunnels shafts cuttings Structure formation Permanent structural lining	G8214	Road_TSC_SF_Permanent_structural_lining
Roads Tunnels shafts cuttings Structure formation Permanent structural lining Collars	G82142	Road_TSC_SF_Permanent_structural_lining_Collar
Roads Tunnels shafts cuttings Structure formation Permanent structural lining Linings	G82141	Road_TSC_SF_Permanent_structural_lining_Lining
Roads Tunnels shafts cuttings Structure formation Shaft	G8211	Road_TSC_SF_Shaft
Roads Tunnels shafts cuttings Structure formation Tunnel	G8212	Road_TSC_SF_Tunnel
Rooflights	G325	Rooflight
Roofs	G24	Roof
Roofs Cable tension	G245	Roof_Cable_tension
Roofs Canopy	G248	Roof_Canopy
Roofs Flat	G241	Roof_Flat
Roofs Lean to	G244	Roof_Lean_to
Roofs Mono-pitched	G243	Roof_Mono-pitched
Roofs Pitched	G242	Roof_Pitched
Roofs Prefabricated	G247	Roof_Prefabricated
Roofs Retractable	G246	Roof_Retractable
Services elements	G5	Service_element
Services elements Other	G59	Service_Other
Services parts of elements	G6	Service_part

Site preparation	G1	Site_Prep
Site preparation Clearance	G11	Site_Prep_Clearance
Site preparation Contouring	G12	Site_Prep_Contouring
Site preparation Ground Measurement	G16	Site_Prep_GRD_Measurement
Site preparation Ground Measurement Piezometers	G161	Piezometer
Site preparation Ground Measurement Waterstrikes	G162	Waterstrike
Site preparation investigation	G15	Site_Prep_INV
Site preparation investigation Boreholes	G151	Site_Prep_INV_Boreholes
Site preparation investigation Test Pits	G152	Site_Prep_INV_Test_Pit
Site preparation investigation Test Pits Porosity pits	G1521	Site_Prep_INV_Test_Pit_Porosity_Pit
Site preparation investigation Trenches	G153	Site_Prep_INV_Trenches
Site preparation Stabilisation	G13	Site_Prep_Stabilisation
Site preparation Trench	G14	Site_Prep_Trench
Source energy	G61	Source_energy
Stairs	G23	Stair
Steam and condensate	G5131	Steam_condensate
Steam supply	G513	Steam_supply
Terminals	G64	Terminal
Terminals Electrical	G643	Terminal_Elect
Terminals Electrical Luminaires	G6431	Luminaire
Terminals Electrical Power outlets	G6432	Power_outlet
Terminals Electrical Switches	G6433	Elect_Switch
Terminals Heat emitters	G641	Terminal_Heat_emitter
Terminals Heat emitters Fan convectors	G6412	Fan_Convector
Terminals Heat emitters Natural convectors	G6413	Natural_Convector
Terminals Heat emitters Radiant panels	G6414	Radiant_panel
Terminals Heat emitters Radiators	G6411	Radiator
Terminals Heat emitters Unit heaters	G6415	Unit_heater
Terminals Monitoring and control	G66	MAC
Terminals Monitoring and control Building management systems	G663	BMS
Terminals Monitoring and control Control systems	G661	Control_system
Terminals Monitoring and control Monitoring systems	G662	Monitoring_system
Terminals Monitoring and control Monitoring systems Measuring	G6621	Monitoring_system_Measuring
Terminals Other parts of services elements	G69	Terminal_Other
Terminals Package units	G65	Package_unit
Terminals Supply and extract ventilation	G642	Ventilation
Terminals Supply and extract ventilation Diffusers	G6422	Ventilation_Diffuser
Terminals Supply and extract ventilation Grilles	G6421	Ventilation_Grill
Terminals Supply and extract ventilation Louvres	G6423	Ventilation_Louvre
Trestle	G265	Trestle
Ventilation	G525	Ventilation
Ventilation Extract	G5252	VE
Ventilation Extract Car parking	G52523	VE_Car_parking

Ventilation Extract Dust collection systems	G52524	VE_Dust_collection
Ventilation Extract Industrial fume extract systems	G52526	VE_Industrial_fume_extract
Ventilation Extract Kitchen	G52522	VE_Kitchen
Ventilation Extract Safety cabinet and fume cupboard extract systems	G52525	VE_Safety_cabinet_fume_cupboard_extract
Ventilation Extract Tunnel ventilation	G52527	VE_Tunnel_ventilation
Ventilation Extract Washroom	G52521	VE_Washroom
Ventilation Supply	G5253	Ventilation_Supply
Ventilation Supply and extract	G5251	VSE
Ventilation Supply and extract Smoke and heat control	G52511	VSE_Smoke_heat_control
Walls	G25	Wall
Walls External	G251	Wall_Ext
Walls External Complete	G2511	Wall_Ext_Comp
Walls External Complete Block	G25112	Wall_Ext_Comp_Blkc
Walls External Complete Brick	G25111	Wall_Ext_Comp_Bwkc
Walls External Complete Concrete	G25113	Wall_Ext_Comp_Conc
Walls External Complete Concrete Mass	G251131	Wall_Ext_Comp_Conc_Mass
Walls External Complete Concrete Precast	G251132	Wall_Ext_Comp_Conc_PC
Walls External Complete Drystone	G25115	Wall_Ext_Comp_DryStone
Walls External Complete Drystone Concrete Rubble	G251151	Wall_Ext_Comp_DryStone
Walls External Complete Drystone Natural Stone	G251152	Wall_Ext_Comp_DryStone
Walls External Complete Glazed	G25114	Wall_Ext_Comp_Glazed
Walls External Edge	G2518	Wall_Ext_Edge
Walls External Finish External	G2512	Wall_Ext_Fin_Ext
Walls External Finish Internal	G2515	Wall_Ext_Fin_Int
Walls External Insulant	G2516	Wall_Ext_Ins
Walls External Membrane	G2517	Wall_Ext_Memb
Walls External Parts	G2519	Wall_Ext_Part
Walls External Structure	G2513	Wall_Ext_Struct
Walls External Substrate	G2514	Wall_Ext_Sub
Walls Internal	G252	Wall_Int
Walls Internal Complete	G2521	Wall_Int_Comp
Walls Internal Complete Block	G25212	Wall_Int_Comp_Blkc
Walls Internal Complete Brick	G25211	Wall_Int_Comp_Bwkc
Walls Internal Complete Concrete	G25213	Wall_Int_Comp_Conc
Walls Internal Edge	G2528	Wall_Int_Edge
Walls Internal Finish External	G2522	Wall_Int_Fin_Ext
Walls Internal Finish Internal	G2525	Wall_Int_Fin_Int
Walls Internal Insulant	G2526	Wall_Int_Ins
Walls Internal Membrane	G2527	Wall_Int_Memb
Walls Internal Parts	G2529	Wall_Int_Part
Walls Internal Structure	G2523	Wall_Int_Struct
Walls Internal Substrate	G2524	Wall_Int_Sub
Walls Partition	G253	Wall_Part
Walls Partition Complete	G2531	Wall_Part_Comp

Walls Partition Edge	G2538	Wall_Part_Edge
Walls Partition Finish External	G2532	Wall_Part_Fin_Ext
Walls Partition Finish Internal	G2535	Wall_Part_Fin_Int
Walls Partition Insulant	G2536	Wall_Part_Ins
Walls Partition Membrane	G2537	Wall_Part_Memb
Walls Partition Parts	G2539	Wall_Part_Part
Walls Partition Structure	G2533	Wall_Part_Struct
Walls Partition Substrate	G2534	Wall_Part_Sub
Walls Retaining	G254	Wall_Ret
Walls Retaining Complete	G2541	Wall_Ret_Comp
Walls Retaining Edge	G2548	Wall_Ret_Edge
Walls Retaining Finish External	G2542	Wall_Ret_Fin_Ext
Walls Retaining Finish Internal	G2545	Wall_Ret_Fin_Int
Walls Retaining Insulant	G2546	Wall_Ret_Ins
Walls Retaining Membrane	G2547	Wall_Ret_Memb
Walls Retaining Parts	G2549	Wall_Ret_Part
Walls Retaining Structure	G2543	Wall_Ret_Struct
Walls Retaining Substrate	G2544	Wall_Ret_Sub
Walls Site	G255	Wall_Site
Walls Site Complete	G2551	Wall_Site_Comp
Walls Site Edge	G2558	Wall_Site_Edge
Walls Site Finish External	G2552	Wall_Site_Fin_Ext
Walls Site Finish Internal	G2555	Wall_Site_Fin_Int
Walls Site Insulant	G2556	Wall_Site_Ins
Walls Site Membrane	G2557	Wall_Site_Memb
Walls Site Parts	G2559	Wall_Site_Part
Walls Site Structure	G2553	Wall_Site_Struct
Walls Site Substrate	G2554	Wall_Site_Sub
Walls Substructure	G256	Wall_Sub
Walls Substructure Complete	G2561	Wall_Sub_Comp
Walls Substructure Edge	G2568	Wall_Sub_Edge
Walls Substructure Finish External	G2562	Wall_Sub_Fin_Ext
Walls Substructure Finish Internal	G2565	Wall_Sub_Fin_Int
Walls Substructure Insulant	G2566	Wall_Sub_Ins
Walls Substructure Membrane	G2567	Wall_Sub_Memb
Walls Substructure Parts	G2569	Wall_Sub_Part
Walls Substructure Structure	G2563	Wall_Sub_Struct
Walls Substructure Substrate	G2564	Wall_Sub_Sub
Water supply	G50	Water_supply
Water supply Bore Hole	G503	Water_supply_Bore_Hole
Water supply Cold water	G501	Water_supply_Cold
Water supply Hot water	G502	Water_supply_Hot
Water supply Water Reclamation	G504	Water_supply_Water_Reclamation
Windows	G321	Window
Windows External	G3211	Window_Ext
Windows Internal	G3212	Window_Int

**Table Z Computer Aided Design, Classification Code / Alias
(Alphabetical Index)**

Description	Code	Alias
Alignments and super elevations	Z45	Alignment
Annotation	Z22	Annotation
Area Fill	Z75	Area_fill
Barscales	Z227	Barscale
Blocks and cells	Z32	Block
Boundaries	Z462	Boundary
Break marks	Z522	Break_mark
Ceiling grid	Z422	Ceiling_grid
Centrelines	Z43	CentreLine
Concept Massing	Z78	Mass
Construction joints	Z561	Construction_joint
Construction lines	Z81	Con
Contours	Z471	Contour
Contours Major	Z4711	Contour_Major
Contraction joints	Z562	Contraction_joint
Contour Minor	Z4712	Contour_Minor
Cross references	Z225	Cross_reference
Detail call outs	Z53	Detail
Dimensions	Z23	Dimension
Drawing frame	Z11	Drawing_Frame
Drawing symbols	Z5	Dwg_symbol
Expansion joints	Z563	Expansion_joint
External reference information	Z83	XREF_Info
External references	Z31	Xref
Fall indicators	Z55	Fall_indicator
General Details	Z63	Detail
General elevations	Z62	Elevation
General masking	Z25	General_masking
General notes	Z222	Note
General Plans	Z64	Plan
General redlining	Z26	General_redlining
General sections	Z61	Section
General text	Z221	Text
Gridlines	Z42	Gridline
Hatch boundaries	Z241	Hatch_boundary
Hatching	Z24	Hatch
Hold clouds and notation	Z14	Hold_cloud
Horizontal alignment	Z451	Horizontal_alignment
Images	Z34	Image
Insertions	Z3	Insertion
Joint lines	Z56	Joint_line
Key plan	Z226	Key_plan

Description	Code	Alias
Keynoting	Z223	Keynote
Labels	Z2212	Label
Legends	Z224	Legend
Levels	Z51	Level
LINES	Z77	Line
Lines Extra Wide	Z777	Line_Extra_Wide
Lines Fine	Z771	Line_Fine
Lines Heavy	Z775	Line_Heavy
Lines Light	Z773	Line_Light
Lines Medium	Z774	Line_Medium
Lines Thin	Z772	Line_Thin
Lines Wide	Z776	Line_Wide
Lines XX Wide	Z778	Line_XX_Wide
Lines XXX Wide	Z779	Line_XXX_Wide
Lots	Z464	Lot
Markers	Z52	Marker
Match lines	Z54	Match_line
North point	Z228	North_point
OS bench mark	Z443	OS_BM
OS Trigonometrical station	Z441	OS_trig_station
Parcels	Z463	Parcel
Pattern	Z76	Pattern
People	Z72	People
Points	Z41	Point
Presentation	Z7	Presentation
Readme	Z82	Readme
Readme and non-plotting	Z8	Non_Plot
References	Z2213	Reference
Revision annotation	Z132	Revision_annotation
Revision blocks and cells	Z131	Revision_block
Revision clouds and notations	Z133	Revision_cloud
Revisions	Z13	Revision
Section marks	Z521	Section_mark
Setting out	Z4	Setting_out
Site bench mark	Z444	Site_BM
Site survey control station	Z442	Survey_control_station
Solid Fill	Z242	Solid_Fill
Span direction markers	Z523	Span_mark
Status stamps	Z12	Status_stamp
Structural grid	Z421	Structural_grid
Super elevation	Z453	Super_elevation
Survey control points	Z44	Survey_control_point
Tables and schedules	Z33	Schedule
Tags	Z2211	Tag

Description	Code	Alias
Textual Content	Z2	Textual_Context
Title Annotation	Z21	Title_annotation
Title sheet	Z1	Title_sheet
Topography	Z47	Topo
Trees and planting	Z73	Tree_planting
Vehicles	Z71	Vehicle
Vertical alignment	Z452	Vertical_alignment
Viewports	Z111	Viewport
Views	Z6	View
Void and opening markers	Z524	Void
Wipe Outs and Masks	Z251	Wipe_out
Zones	Z461	Zone
Zones and boundaries	Z46	Zone_boundary



Appendix C - AutoCAD Architecture Layer Keys (BS1192-2007_Uniclass_14)

The following provides a list of the Layer Keys used by AutoCAD Architecture using the Oakley CAD Services Ltd Layer convention and mapped to the Oakley CAD Services Ltd plot style tables. The colours and pen weights are consistent with the previous Autodesk UK content.

A DWG File (“BS1192-2007-Uniclass_14.dwg”) providing an AutoCAD Architecture Layer Standard called “BS1192-2007_Uniclass_14” is available from the author complete with the “BS1192-2007_Uniclass_14” Layer Key Style. The keys are provided as follows:-

ACA Layer Key	Description	Layer	Colour	Line type	Line weight	Plot style	Plot
ANNDTOBJ	Detail marks	A-Z53-A_Detail	150	Continuous	.18	Black	1
ANNELKEY	Elevation marks	A-Z62-M_Elevation	151	Continuous	.25	Black	1
ANNELOBJ	Elevation Lines	A-Z62-M2_Elevation	141	Continuous	.18	Black	1
ANNMASK	ADT masking objects	A-Z25-M_General_masking	170	Continuous	.18	Black	1
ANNMATCH	Match lines	A-Z54-M_Match_line	214	Continuous	.70	Black	1
ANNOBJ	Notes & Leaders	A-Z222-M_Note	231	Continuous	.25	Black	1
ANNREV	Revisions	A-Z13-M_Revision	71	Continuous	.25	Black	1
ANNSXKEY	Section marks	A-Z61-A_Section	191	Continuous	.25	Black	1
ANNSXOBJ	Section Lines	A-Z61-M_Section	181	Continuous	.25	Black	1
ANNSYMOBJ	Annotation marks	A-Z22-A_Annotation	131	Continuous	.25	Black	1
APPL	Appliances	A-L83-M_Catering_Furniture	11	Continuous	.25	Black	1
CASE	Kitchen Units and Worktops	A-G46-M3_FFE_Storage	31	Continuous	.25	Black	1
CASENO	Kitchen Units and Worktops tags	A-G46-A_FFE_Storage	191	Continuous	.25	Black	1
CEILGRID	Ceiling grid	A-G332-MG_Ceiling	72	Continuous	.35	Black	1
CEILOBJ	Ceiling objects	A-G332-M_Ceiling	13	Continuous	.50	Black	1
CHASE	Chases	AEC-Chases	91	Continuous	.25	Black	1
COGO	Control Points	A-Z44-M_Survey_Control_point	red	Continuous	.18	Black	1

ACA Layer Key	Description	Layer	Colour	Line type	Line weight	Plot style	Plot
COLUMN	Metal Columns	A-G262-M_Column	52	Continuous	.35	Black	1
COMMUN	Electrical communication	A-G55-M_COMM	yellow	Continuous	.18	Black	1
CONTROL	Electrical controls	A-G533-M_EP_MAC	230	Continuous	.18	Black	1
CWLAYOUT	Curtain wall layouts	A-G257-M_Curt_Wall	52	Continuous	.35	Black	1
CWUNIT	Curtain wall units	A-G2574-MG_Curt_Wall_Grid	40	Continuous	.25	Black	1
DIMLINE	Dimensions	A-Z23-D_Dim	211	Continuous	.25	Black	1
DIMMAN	Dimensions - AutoCAD points	A-Z23-D_Dim	211	Continuous	.25	Black	1
DISPTHEME	Display Theme Legends	A-Z224-M_Legends	231	Continuous	.25	Black	1
DOOR	External Doors	A-G3221-M_Door_Ext	31	Continuous	.25	Black	1
DOORINT	Door Internal	A-G3222-M_Door_Int	71	Continuous	.25	Black	1
DOORINTNO	Door Internal tags	A-G3222-A_Door_Int	red	Continuous	.18	Black	1
DOORNO	External Door tags	A-G3221-A_Door_Ext	132	Continuous	.35	Black	1
DRAINAGE	Drainage symbols	A-G581-A_Drainage	150	Continuous	.18	Black	1
ELEC	Electrical general	A-G531-M_EPS	71	Continuous	.25	Black	1
ELECNO	Electrical tags	A-G531-A_EPS	91	Continuous	.25	Black	1
ELEV	Elevations	A-Z62-M_Elevation	111	Continuous	.25	Black	1
ELEVAT	Lift	A-G561-M_Lifts	172	Continuous	.35	Black	1
ELEVHIDE	Elevations-2D	A-Z62-M_Elevation	111	Continuous	.25	Black	1
EQUIP	Equipment	A-G4-M_FFE	91	Continuous	.25	Black	1
EQUIPNO	Equipment tags	A-G4-A_FFE	132	Continuous	.35	Black	1
FENCE	External Fences	A-G255-M_Wall_Site	52	Continuous	.35	Black	1
FINCEIL	Finish tag: Ceiling	A-G332-M_Ceilings	151	Continuous	.25	Black	1
FINE	Details - fine lines	A-Z771-M2_Lines_Fine	magenta	Continuous	.18	Black	1
FINFLOOR	Finish tag: Floor	A-G331-M_Int_Fin_Floor	171	Continuous	.25	Black	1
FIRE	Fire equipment	A-G57-M_FSP	90	Continuous	.18	Black	1

ACA Layer Key	Description	Layer	Colour	Line type	Line weight	Plot style	Plot
FURN	Furniture	A-G4-M_FFE	30	Continuous	.18	Black	1
FURNNO	Furniture tags	A-G4-A_FFE	211	Continuous	.25	Black	1
GRIDBUB	Grid bubbles	A-Z42-A_Gridline	191	Continuous	.25	Black	1
GRIDLINE	Grid lines	A-Z42-M_Gridline	191	Continuous	.25	Black	1
HATCH	Details - hatching	A-Z24-H_Hatch	190	Continuous	.18	50 Percent	1
HIDDEN	Hidden Lines	A-Z77-MH_Lines	red	HIDDEN2	.18	Black	1
LAYGRID	Layout grids	A-Z423-MG_Layout_Grid	200	Dashed2	.18	Black	1
LIGHTCLG	Electrical light systems	A-G541-M_Light	33	Continuous	.50	Black	1
LIGHTW	Electrical local light	A-G549-M_Light_FSA	53	Continuous	.50	Black	1
MASSELEM	Massing elements	A-Z78-M3_Mass	70	Continuous	.18	Black	1
MASSGRPS	Massing groups	A-Z781-M3_Mass_Groups	13	Continuous	.50	Black	1
MASSLCE	Massing slices	A-Z782-M2_Mass_Slice	51	Dashed2	.25	Black	1
MED	Details - medium lines	A-Z774-M2_Lines_Medium	31	Continuous	.25	Black	1
OPENING	Door and window blocks	A-G32-M_Opening	31	Continuous	.25	Black	1
PEOPLE	People	A-Z72-M2_People	30	Continuous	.18	Black	1
PFIXT	Plumbing fixtures	A-G581-M_Drainage	131	Continuous	.25	Black	1
PLANTS	Plants - outdoor	A-Z731-M_Tree_Planting_Ext	71	Continuous	.25	Black	1
PLANTSI	Plants - indoor	A-Z732-M_Tree_Planting_Int	141	Continuous	.18	Black	1
POLYGON	AecPolygons	A-Z77-M2_Lines	110	Continuous	.18	Black	1
POWER	Electrical power	A-G53-M_EP	130	Continuous	.18	Black	1
PRCL	Property	A-Z462-M_Boundary	255,0,0	Continuous	.18	Colour	1
PRK-SYM	Parking symbols	A-D125-M_Parking	70	Continuous	.18	Black	1
ROOF	Roof lines-2D	A-G24-M3_Roof	132	Continuous	.35	Black	1
ROOFLAB	Roof slabs	A-G24-M_Roof	12	Continuous	.35	Black	1

Layer Key	Description	Layer	Colour	Line type	Line weight	Plot style	Plot
ROOMNO	Room tags	A-F2-A_Room	171	Continuous	.25	Black	1
SCHEDOBJ	Schedule objects	A-Z33-A_Schedule	231	Continuous	.25	Black	1
SCREEN	Internal Screens	A-G324-M_Opening_Combined	170	Continuous	.18	Black	1
SCREENNO	Screen Tags	A-G324-A_Opening_Combined	red	Continuous	.18	Black	1
SEATNO	Seating tags	A-G4-A_FFE	211	Continuous	.25	Black	1
SECT	Miscellaneous sections	A-Z61-M2_Section	73	Continuous	.50	Black	1
SECTHIDE	Sections-2D	A-Z61-M2_Section	73	Continuous	.50	Black	1
SITE	Site	A-G7-M_Site	91	Continuous	.25	Black	1
SLAB	Slabs	A-G22-M_Floor	192	Continuous	.35	Black	1
SPACENO	Space tags	A-F-A_Space	171	Continuous	.25	Black	1
SPACEOBJ	Space objects	A-F-M_Space	32	Continuous	.35	Colour	1
STAIR	Stairs	A-G23-M_Stair	31	Continuous	.25	Black	1
STAIRH	Stair handrails	A-L4422-M_Hand_rail	11	Continuous	.25	Black	1
STRUCTBEAM	Structural Metal beams	A-G261-M_Beam	12	Continuous	.50	Black	1
STRUCTBEAMIDEN	Structural Metal beam tags	A-G261-A_Beam	131	Continuous	.25	Black	1
STRUCTBRACE	Structural braces	A-G263-M_Bracing	32	Continuous	.35	Black	1
STRUCTBRACEIDEN	Structural brace tags	A-G263-A_Bracing	151	Continuous	.25	Black	1
STRUCTCOLS	Structural metal columns	A-G262-M_Column	52	Continuous	.35	Black	1
STRUCTCOLSIDEN	Structural metal columns tags	A-G262-A_Column	171	Continuous	.25	Black	1
SWITCH	Electrical switch	A-G535-M_EPS_Equip	110	Continuous	.18	Black	1
THIN	Details - thin lines	A-Z772-M2_Lines_Thin	151	Continuous	.25	Black	1
TINN	Triangulated irregular network	A-Z79-M_Surface	red	Continuous	.18	Black	1
TITSCALE	Graphical scales	A-Z227-M_Barscales	231	Continuous	.25	Black	1
TITTEXT	Borders and title blocks	A-Z11-M_Drawing_Frame	213	Continuous	.50	Black	1
TITTEXT_DWG	Drawing title text	A-Z21-T_Title_Annotation	white	Continuous	.25	Black	1

Layer Key	Description	Layer	Colour	Line type	Line weight	Plot style	Plot
TOILACC	Toilet accessories	A-G44-M_Sanitary	90	Continuous	.18	Black	1
TOILNO	Plumbing tags	A-G44-A_Sanitary	231	Continuous	.25	Black	1
TOPO	Topography	A-Z471-M_Topo	red	Continuous	.18	Black	1
UTIL	Site utilities	A-G7-M_Site	91	Continuous	.25	Black	1
VEHICLES	Vehicles	A-Z71-M_Vehicles	30	Continuous	.18	Black	1
VIEWPORT	Sheet View viewports	A-Z111-M_Viewport	140	Continuous	.18	Black	1
WALL	External Walls	A-G25-M_Wall	113	Continuous	.50	Black	1
WALLFIRE	Fire wall patterning	A-Z76-M_Pattern	152	Continuous	.35	Black	1
WALLINT	Wall Internal	A-G251-M_Wall_Int	72	Continuous	.35	Black	1
WALLINTPART	Wall Internal Partitions	A-G253-M_Wall_Part	51	Continuous	.25	Black	1
WALLNO	Wall tags	A-G25-A_Wall	211	Continuous	.25	Black	1
WALLRET	Wall Retaining	A-G254-M_Wall_Ret	white	Continuous	.25	Colour	1
WIDE	Details - wide lines	A-Z776-M2_Lines_Wide	215	Continuous	1.00	Black	1
WIND	External Windows	A-G321-M_Window	151	Continuous	.25	Black	1
WINDASSEM	Composite Openings	A-G321-M_Window	71	Continuous	.25	Black	1
WINDINT	Window Internal	A-G321-M_Window	31	Continuous	.25	Black	1
WINDINTNO	Window Internal tags	A-G321-A_Window	red	Continuous	.18	Black	1
WINDNO	External Window tags	A-G321-A_Window	152	Continuous	.35	Black	1
XLINE	Construction Line	A-Z81-M_Cons	140	HIDDEN2	.18	Black	0
ZONE	Zones	A-Z461-M_Zone	34	Continuous	.70	Black	1
ZONENO	Zone tags	A-Z461-A_Zone	151	Continuous	.25	Black	1

Appendix D - Revit Export Keys (BS1192-2007_Uniclass_14)

The following provides a list of the Revit Export Category to AutoCAD using the layers based upon BS1192:2007 and Uniclass version 1.4. The layers are mapped to the Oakley CAD Services Ltd CTB, line weights and Pens for plotting purposes. A Revit standards text file is available from the author.

Category	Sub-Category	Layer Projection	Colour	Layer Cut	Colour
Adaptive Points		A-Z8-M_Non_Plot	150		
Adaptive Points	Lines	A-Z8-M_Non_Plot	150		
Adaptive Points	Planes	A-Z8-M_Non_Plot	150		
Adaptive Points	Points	A-Z8-M_Non_Plot	150		
Air Terminal Tags		A-G631-A_Ductwork	70		
Air Terminals		A-G631-M_Ductwork	70		
Area Load Tags		A-F9-A_Area	131		
Area Polylines		A-Z75-H_Area_Fill	32		
Area Tags		A-F9-A_Area	131		
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Areas	Reference	A-F9-M_Area	32		
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Cable Tray Fittings		A-G6334-M_Cable_tray	211		
Cable Tray Fittings	Center line	A-Z43-M_Centreline	70		
Cable Tray Tags		A-G6334-A_Cable_tray	150		

Category	Sub-Category	Layer Projection	Colour	Layer Cut	Colour
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Cable Trays	Center line	A-Z43-M_Centreline	70		
Cable Trays	Drop	A-G6334-M_Cable_tray	211		
Cable Trays	Rise	A-G6334-M_Cable_tray	211		
Callouts		A-Z63-T_Detail	5		
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Ceiling Tags		A-G332-A_Ceiling	5		
Ceilings		A-G332-M_Ceiling	11	A-G332-MC_Ceiling	11
Ceilings	Common Edges	A-G332-M_Ceiling	11	A-G332-MC_Ceiling	11
Ceilings	Cut Pattern	A-G332-H_Ceiling	11	A-G332-H_Ceiling	11
Ceilings	Finish 1 [4]	A-G332-M_Ceiling	11	A-G332-MC_Ceiling	11
Ceilings	Finish 2 [5]	A-G332-M_Ceiling	11	A-G332-MC_Ceiling	11
Ceilings	Hidden Lines	A-G332-MH_Ceiling	11	A-G332-MH_Ceiling	11
Ceilings	Membrane Layer	A-G332-M_Ceiling	11	A-G332-MC_Ceiling	11
Ceilings	Structure [1]	A-G332-M_Ceiling	11	A-G332-MC_Ceiling	11
Ceilings	Substrate [2]	A-G332-M_Ceiling	11	A-G332-MC_Ceiling	11
Ceilings	Surface Pattern	A-G332-H_Ceiling	11	A-G332-H_Ceiling	11
Ceilings	Thermal/Air Layer [3]	A-G332-M_Ceiling	11	A-G332-MC_Ceiling	11
Color Fill		A-Z224-M_Legend	2	A-Z224-MC_Legend	2
Color Fill Legends		A-Z224-M_Legend	2		
Columns		A-G262-M_Column	52	A-G262-MC_Column	52
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Category	Sub-Category	Layer Projection	Colour	Layer Cut	Colour
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Communication Devices		A-G55-M_COMM	2		
Conduit Fitting Tags		A-G55-A_COMM	130		
Conduit Fittings		A-G6332-M_Conduit	130		
Conduit Fittings	Center line	A-Z43-M_Centreline	70		
Conduit Tags		A-G6332-A_Conduit	2		
Conduits		A-G6332-M_Conduit	130		
Conduits	Center line	A-Z43-M_Centreline	70		
Conduits	Drop	A-G6332-M_Conduit	130		
Conduits	Rise	A-G6332-M_Conduit	130		
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Curtain Panels		A-G2572-M_Wall_Curt_Panel	52	A-G2572-MC_Wall_Curt_Panel	52
Curtain Panels	Glass	A-G2572-M_Wall_Curt_Panel	52	A-G2572-MC_Wall_Curt_Panel	52
Curtain Panels	Hidden Lines	A-G2572-MH_Wall_Curt_Panel	51	A-G2572-MH_Wall_Curt_Panel	51
Curtain Panels	Panel Material 1	A-G257-A_Curt_Wall	2	A-G257-A_Curt_Wall	2
Curtain System Tags		A-G2571-M_Curt_Wall	52		
Curtain Systems		A-G2571-M_Curt_Wall	53	A-G2571-MC_Curt_Wall	53
Curtain Systems	Curtain System Grids	A-G2571-M_Curt_Wall	52	A-G2571-MC_Curt_Wall	52
Curtain Systems	Hidden Lines	A-G2571-MH_Curt_Wall	51	A-G2571-MH_Curt_Wall	51
Curtain Wall Mullions		A-G2572-M_Curt_Wall_Frame	51	A-G2572-MC_Curt_Wall_Frame	51
Curtain Wall Mullions	Hidden Lines	A-G2572-MH_Curt_Wall_Frame	50	A-G2572-MH_Curt_Wall_Frame	50

Category	Sub-Category	Layer Projection	Colour	Layer Cut	Colour
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Data Devices		A-G556-A_COMM_Data	2		
Detail Item Tags		A-Z63-A_Detail	211		
Detail Items		A-Z63-M_Detail	211		
Detail Items	0	A-Z63-M_Detail	211		
Detail Items	Heavy Lines	A-Z775-M_Line_Heavy	214		
Detail Items	Hidden Lines	A-Z77-MH_Line	1		
Detail Items	Light Lines	A-Z773-M_Line_Light	151		
Detail Items	Medium Lines	A-Z774-M_Line_Medium	33		
Dimensions		A-Z23-D_Dim	211		
Dimensions	Automatic Sketch Dimensions	A-Z23-D_Dim	211		
Door Tags		A-G322-A_Door	70		
Door Tags	Enter new name here	A-G322-A_Door	70		
Door Tags	Medium Line	A-G322-A_Door	70		
Door Tags	North Line	A-G322-A_Door	70		
Door Tags	Thin Line	A-G322-A_Door	70		
Doors		A-G322-M_Door	31	A-G322-MC_Door	31
Doors	Architrave	A-G322-M_Door	31	A-G322-MC_Door	31
Doors	Cavity Closer	A-G322-M_Door	31	A-G322-MC_Door	31
Doors	Elevation Swing	A-G322-M_Door	31	A-G322-MC_Door	31
Doors	Frame/Mullion	A-G322-M_Door	31	A-G322-MC_Door	31
Doors	Glass	A-G322-M_Door	31	A-G322-MC_Door	31
Doors	Glazing Bars	A-G322-M_Door	31	A-G322-MC_Door	31

Category	Sub-Category	Layer Projection	Colour	Layer Cut	Colour
Doors	Hidden Lines	A-G322-MH_Door	31	A-G322-MH_Door	31
Doors	Ironmongery	A-G322-M_Door	31	A-G322-MC_Door	31
Doors	Moulding/Architrave	A-G322-M_Door	31	A-G322-MC_Door	31
Doors	Opening	A-G322-M_Door	31	A-G322-MC_Door	31
Doors	Panel	A-G322-M_Door	31	A-G322-MC_Door	31
Doors	Plan Swing	A-G322-M_Door	31	A-G322-MC_Door	31
Doors	Structural Opening	A-G322-M_Door	31	A-G322-MC_Door	31
Doors	Threshold	A-G322-M_Door	31	A-G322-MC_Door	31
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Duct Accessory Tags		A-G631-A_Ductwork	70		
Duct Color Fill		A-G631-H_Ductwork	50		
Duct Color Fill Legends		A-G631-H_Ductwork	50		
Duct Fitting Tags		A-G631-A_Ductwork	70		
Duct Fittings		A-G631-M_Ductwork	70		
Duct Fittings	Center line	A-Z43-M_Centreline	70		
Duct Fittings	Insulation	A-G631-M_Ductwork	70		
Duct Fittings	Lining	A-G631-M_Ductwork	70		
Duct Tags		A-G631-A_Ductwork	70		
Ducts		A-G631-A_Ductwork	70		
Ducts	Center line	A-Z43-M_Centreline	70		
Ducts	Drop	A-G631-M_Ductwork	70		
Ducts	Insulation	A-G631-A_Ductwork	70		
Ducts	Lining	A-G631-M_Ductwork	70		
Ducts	Rise	A-G631-M_Ductwork	71		

Category	Sub-Category	Layer Projection	Colour	Layer Cut	Colour
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Electrical Equipment		A-G531-M_EPS	71		
Electrical Equipment	Hidden Lines	A-G531-MH-EPS	91		
Electrical Equipment Tags		A-G531-A_EPS	111		
Electrical Fixture Tags		A-G531-T_EPS	71		
Electrical Fixtures		A-G531-A_EPS	91		
Electrical Fixtures	Hidden Lines	A-G531-MH-EPS	91		
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Entourage	Hidden Lines	A-Z7-MH_Presentation	90		
Fire Alarm Device Tags		A-G5721-A_FSP_FSA	70		
Fire Alarm Devices		A-G5721-M_FSP_FSA	2		
Flex Duct Tags		A-G631-A_Ductwork	70		
Flex Ducts		A-G631-M_Ductwork	70		
Flex Ducts	Center line	A-Z43-M_Centreline	70		
Flex Ducts	Insulation	A-G631-H_Ductwork	50		
Flex Ducts	Pattern	A-G632-A_Pipework	11		
Flex Pipe Tags		A-G632-M_Pipework	191		
Flex Pipes		A-G632-M_Pipework	191		
Flex Pipes	Center Line	A-Z43-M_Centreline	70		
Flex Pipes	Insulation	A-G632-H_Pipework	191		
Flex Pipes	Pattern	A-G632-H_Pipework	192		
Floor Tags		A-G22-A_Floor	1		
Floors		A-G22-M_Floor	192	A-G22-MC_Floor	192

Category	Sub-Category	Layer Projection	Colour	Layer Cut	Colour
Floors	Analytical Model	A-G22-MA_Floor	192	A-G22-MA_Floor	192
Floors	Common Edges	A-G22-H_Floor	8	A-G22-H_Floor	8
Floors	Cut Pattern	A-G22-M_Floor	192	A-G22-MC_Floor	192
Floors	Finish 1 [4]	A-G22-M_Floor	192	A-G22-MC_Floor	192
Floors	Finish 2 [5]	A-G22-M_Floor	192	A-G22-MC_Floor	192
Floors	Hidden Lines	A-G22-MH_Floor	190	A-G22-MH_Floor	190
Floors	Interior Edges	A-G22-M_Floor	192	A-G22-MC_Floor	192
Floors	Membrane Layer	A-G22-M_Floor	192	A-G22-MC_Floor	192
Floors	Slab Edges	A-G22-M_Floor	192	A-G22-MC_Floor	192
Floors	Structure [1]	A-G22-M_Floor	192	A-G22-MC_Floor	192
Floors	Substrate [2]	A-G22-M_Floor	192	A-G22-MC_Floor	192
Floors	Surface Pattern	A-G22-H_Floor	8	A-G22-H_Floor	8
Floors	Thermal/Air Layer [3]	A-G22-M_Floor	192	A-G22-MC_Floor	192
Foundation Span Direction Symbol		A-Z523-M_Span_mark	211		
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Furniture	Hidden Lines	A-G4-MH_FFE	30		
Furniture	Overhead Lines	A-G4-MV_FFE	31		
Furniture System Tags		A-G4-A_FFE	211		
Furniture Systems		A-G4-M_FFE	31		
Furniture Systems	Hidden Lines	A-G4-MH_FFE	30		
Furniture Tags		A-G4-A_FFE	211		
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Generic Annotations	Centerline	A-Z22-M_Anno	131		
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Category	Sub-Category	Layer Projection	Colour	Layer Cut	Colour
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Generic Models	Hidden Lines	A-Z78-MH_Mass	70	A-Z78-MH_Mass	70
Generic Models	Ironmongery				
Generic Models	Masonry Quoin Stone				
Generic Models	Rainwater Downpipes	A-G5812-M-Drainage_SW	11	A-G5812-M-Drainage_SW	11
Generic Models	Window Cill	A-G321-M_Window	151	A-G321-M_Window	151
Grid Heads		A-Z42-M_Gridline	191		
Grids		A-Z42-M_Gridline	191		
Guide Grid		A-Z42-M_Gridline	191		
HVAC Zones		A-Z461-M_Zones_HVAC	51		
HVAC Zones	Boundary	A-Z461-M_Zone_HVAC	51		
HVAC Zones	Color Fill	A-Z461-H_Zone_HVAC	51		
HVAC Zones	Interior Fill	A-Z461-H_Zone_HVAC	51		
HVAC Zones	Reference Lines	A-Z461-M_Zone_HVAC	51		
Imports in Families		A-Z31-M-XREF	1		
Imports in Families	0	A-Z31-M-XREF	1		
Internal Area Load Tags		A-Z2211-A_Tag	171		
Internal Line Load Tags		A-Z2211-A_Tag	171		
Internal Point Load Tags		A-Z2211-A_Tag	171		
Keynote Tags		A-Z2211-A_Tag	171		
Level Heads		A-Z51-M_Level	33		
Levels		A-Z51-M_Level	33		
Lighting Device Tags		A-G54-A_EP_Light	11		
Lighting Devices		A-G54-M_EP_Light	11		

Category	Sub-Category	Layer Projection	Colour	Layer Cut	Colour
Lighting Fixture Tags		A-G54-A_EP_Light	11		
Lighting Fixtures		A-G54-M_EP_Light	11		
Lighting Fixtures	Hidden Lines	A-G54-MH_EP_Light	11		
Lighting Fixtures	Light Source	A-G54-M_EP_Light	11		
Line Load Tags		A-Z2211-A_Tag	171		
Lines		A-Z77-M_Line	90		
Lines	<Area Boundary>	A-F9-M_Area	32		
Lines	<Beyond>	A-Z77-MB_Line	90		
Lines	<Centerline>	A-Z43-M_Centreline	70		
Lines	<Demolished>	A-Z77-M_Line	90		
Lines	<Hidden>	A-Z77-MH_Line	1		
Lines	<Overhead>	A-Z77-MC_Line	1		
Lines	<Revision Cloud>	A-F2-M_Room	32		
Lines	<Room Separation>	A-Z77-M_Line	90		
Lines	<Sketch>	A-F-M_Space	32		
Lines	<Space Separation>	A-Z77-M_Line	90		
Lines	Axis of Rotation	A-Z77-MH_Line	1		
Lines	Hidden Lines	A-Z77-M_Line	90		
Lines	Insulation Batting Lines	A-Z77-M_Line	90		
Lines	Lines	A-Z774-M_Line_Medium	33		
Lines	Medium Lines	A-Z77-MH_Line	1		
Lines	Thin Lines	A-Z772-M_Line_Thin	151		
Lines	Wide Lines	A-Z776-M_Line_Wide	214		
Mass		A-Z78-M_Mass	70	A-Z78-MC_Mass	70

Category	Sub-Category	Layer Projection	Colour	Layer Cut	Colour
Mass	Form	A-Z78-M_Mass	70	A-Z78-MC_Mass	70
Mass	Gridlines	A-Z78-M_Mass	70	A-Z78-MC_Mass	70
Mass	Hidden Lines	A-Z78-MH_Mass	70	A-Z78-MH_Mass	70
Mass	Mass Floor	A-Z78-M_Mass	70	A-Z78-MC_Mass	70
Mass	Nodes	A-Z78-M_Mass	70	A-Z78-MC_Mass	70
Mass	Pattern Fill	A-Z78-H_Mass	70	A-Z78-H_Mass	70
Mass	Pattern Lines	A-Z78-H_Mass	70	A-Z78-H_Mass	70
Mass Floor Tags		A-Z2211-A_Tag	171		
Mass Tags		A-Z2211-A_Tag	171		
Massing		A-Z78-M_Mass	70	A-Z78-MC_Mass	70
Matchline		A-Z54-M_Match_Line	131		
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Mechanical Equipment	Hidden Lines	A-JY3-MH-Gen_Mech	50		
Mechanical Equipment Tags		A-JY3-T_Gen_Mechanical	131		
Multi-Category Tags		A-Z2211-A_Tag	171		
New		New	11	New	11
Nurse Call Device Tags		A-G57424-A_Nurse_call	231		
Nurse Call Devices		A-G57424-M_Nurse_call	231		
Panel Schedule Graphics		A-Z33-M_Table_Schedule	111		
Parking		A-D125-M_Parking	70		
Parking	Hidden Lines	A-D125-MH_Parking	70		
Parking	Parking Layout	A-D125-M_Parking	70		
Parking	Reference Line	A-D125-M_Parking	70		

Category	Sub-Category	Layer Projection	Colour	Layer Cut	Colour
Parking	Stripe	A-D125-M_Parking	70		
Parking	White Lining	A-D125-M_Parking	71		
Parking Tags		A-D125-A_Car_parking	2		
Pipe Accessories		A-G632-M_Pipework	191		
Pipe Accessory Tags		A-G632-A_Pipework	11		
Pipe Color Fill		A-G632-H_Pipework	191		
Pipe Color Fill Legends		A-G632-H_Pipework	191		
Pipe Fitting Tags		A-G632-A_Pipework	11		
Pipe Fittings		A-G632-M_Pipework	191		
Pipe Fittings	Center line	A-Z43-M_Centreline	70		
Pipe Fittings	Insulation	A-G632-M_Pipework	191		
Pipe Tags		A-G632-A_Pipework	11		
Pipes		A-G632-M_Pipework	191		
Pipes	Center Line	A-Z43-M_Centreline	70		
Pipes	Drop	A-G632-M_Pipework	191		
Pipes	Insulation	A-G632-M_Pipework	191		
Pipes	Rise	A-G632-M_Pipework	191		
Plan Region		A-Z64-M_Plan	3		
Planting		A-Z73-M_Tree_Planting	71		
Planting	Hidden Lines	A-Z73-MH_Tree_Planting	71		
Planting Tags		A-Z73-A_Tree_Planting	2		
Plumbing Fixture Tags		A-G581-A_Drainage	6		
Plumbing Fixtures		A-G581-M-Drainage	131		
Plumbing Fixtures	Hidden Lines	A-G5811-MH-Drainage_FW	131		

Category	Sub-Category	Layer Projection	Colour	Layer Cut	Colour
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Property Line Segment Tags		A-G72-A_Site_ENC_DIV	91		
Property Tags		A-G7-A_Site	171		
Railing Tags		A-L4421-A_Railing	111		
Railings		A-L4422-M_Hand_rail	10	A-L4422-MC_Hand_rail	10
Railings	Balusters	A-L4422-M_Hand_rail	10	A-L4422-MC_Hand_rail	10
Railings	Hidden Lines	A-L4422-MH_Hand_rail	10	A-L4422-MH_Hand_rail	10
Railings	Railings Beyond Cut Line	A-L4422-MV_Hand_rail	10	A-L4422-MV_Hand_rail	10
Railings	Rails	A-L4422-M_Hand_rail	10	A-L4422-MC_Hand_rail	10
Ramps		A-L4311_M_Ramp	51	A-L4311-MC_Ramp	51
Ramps	Down Arrow	A-L4311-T_Ramp	1	A-L4311-T_Ramp	1
Ramps	DOWN text	A-L4311-T_Ramp	1	A-L4311-T_Ramp	1
Ramps	Hidden Lines	A-L4311_MH_Ramp	51	A-L4311-MH_Ramp	51
Ramps	Incomplete ramps	A-L4311_M_Ramp	51	A-L4311-MC_Ramp	51
Ramps	Ramps Beyond Cut Line	A-L4311_MV_Ramp	51	A-L4311_MV_Ramp	51
Ramps	Stringers	A-L4311_M_Ramp	51	A-L4311-MC_Ramp	51
Ramps	Stringers Beyond Cut Line	A-L4311_MV_Ramp	51	A-L4311_MV_Ramp	51
Ramps	Up Arrow	A-L4311-T_Ramp	1	A-L4311-T_Ramp	1
Ramps	UP text	A-L4311-T_Ramp	1	A-L4311-T_Ramp	1
Raster Images		A-Z34-M_Image	1		
Reference Lines		A-Z81-M_Con	111		
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Reference Points	Lines	A-Z81-M_Con	111		

Category	Sub-Category	Layer Projection	Colour	Layer Cut	Colour
Reference Points	Planes	A-Z81-M_Con	111		
Reference Points	Points	A-Z81-M_Con	111		
Revision Cloud Tags		A-Z131-A_Rev	71		
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Roads		A-G81-M_Road	133	A-G81-MC_Road	133
Roads	Hidden Lines	A-G81-MH_Road	130	A-G81-MH_Road	130
Roof Tags		A-G24-A_Roof	2		
Roofs		A-G24-M_Roof	132	A-G24-MC_Roof	132
Roofs	Common Edges	A-G24-M_Roof	132	A-G24-MC_Roof	132
Roofs	Curtain Roof Grids	A-G24-M_Roof	132	A-G24-MC_Roof	132
Roofs	Cut Pattern	A-G24-H_Roof	132	A-G24-H_Roof	132
Roofs	Fascias	A-G24-M_Roof	132	A-G24-MC_Roof	132
Roofs	Finish 1 [4]	A-G24-M_Roof	132	A-G24-MC_Roof	132
Roofs	Finish 2 [5]	A-G24-M_Roof	132	A-G24-MC_Roof	132
Roofs	Gutters	A-G24-M_Roof	132	A-G24-MC_Roof	132
Roofs	Hidden Lines	A-G24-MH_Roof	11	A-G24-MH_Roof	11
Roofs	Interior Edges	A-G24-M_Roof	132	A-G24-MC_Roof	132
Roofs	Membrane Layer	A-G24-M_Roof	132	A-G24-MC_Roof	132
Roofs	Roof Soffits	A-G24-M_Roof	132	A-G24-MC_Roof	132
Roofs	Structure [1]	A-G24-M_Roof	132	A-G24-MC_Roof	132
Roofs	Substrate [2]	A-G24-M_Roof	132	A-G24-MC_Roof	132
Roofs	Surface Pattern	A-G24-H_Roof	132	A-G24-H_Roof	132
Roofs	Thermal/Air Layer [3]	A-G24-M_Roof	132	A-G24-MC_Roof	132
Room Polylines		A-F2-M_Room	32		

Category	Sub-Category	Layer Projection	Colour	Layer Cut	Colour
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Rooms		A-F2-M_Room	32		
Rooms	Color Fill	A-F2-H_Room	32		
Rooms	Interior Fill	A-F2-H_Room	32		
Rooms	Reference	A-F2-A_Room	171		
Schedule Graphics		A-Z33-M_Schedule	111		
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Section Boxes		A-Z81-M_Con	111		
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Security Devices		A-G571-M_FSP_Security	181		
Shaft Openings		A-G32-M_Opening	51		
Shaft Openings	Hidden Lines	A-G32-MH_Opening	51		
Site		A-G7-M_Site	91	A-G7-MC_Site	91
Site	Bins	A-G582-M_Refuse	71		
Site	Bins - Domestic	A-G582-M_Refuse	71		
Site	Drainage RWP	A-G5812-M-Drainage_SW	11		
Site	Drainage SVP	A-G5811-M-Drainage_FW	131		
Site	Hidden Lines	A-G7-MH_Site	91	A-G7-MH_Site	91
Site	Landscape	A-Z73-M_Tree_planting	71	A-Z73-MC_Tree_planting	71
Site	Pads	A-G218-M_Found_Pad	91	A-G218-MC_Found_Pad	91
Site	Project Base Point	A-Z41-M_Point	91	A-Z41-MC_Point	91
Site	Property	A-Z462-M_Boundary	91	A-Z462-MC_Boundary	91
Site	Property Lines	A-Z462-M_Boundary	91	A-Z462-MC_Boundary	91

Category	Sub-Category	Layer Projection	Colour	Layer Cut	Colour
Site	Stripe	A-G7-M_Site	91	A-G7-MC_Site	91
Site	Survey Point	A-Z41-M_Point	91	A-Z41-MC_Point	91
Site	Utilities	A-D1-M_Utility	91	A-D1-M-Utility	91
Site Tags		A-G7-A_Site	171		
Site Tags	North Symbol	A-G7-A_Site	171		
Space Tags		A-F-A_Space	171		
Spaces		A-F-M_Space	32		
Spaces	Color Fill	A-F-H_Space	32		
Spaces	Interior	A-F-H_Space	32		
Spaces	Reference	A-F-M_Space	32		
Span Direction Symbol		A-Z522-M_Span_Mark	211		
Specialty Equipment		A-G48-M_FFE_SA	91		
Specialty Equipment	Hidden Lines	A-G48-MH_FFE_SA	91		
Specialty Equipment Tags		A-G48-A_FFE_SA	111		
Spot Coordinates		A-Z511-M_Spot_Coordinate	111		
Spot Elevations		A-Z512-M_Spot_Elevation	111		
Spot Slopes		A-Z511-M_Spot_slope	2		
Sprinkler Tags		A-L7164-A_Fire_sprinkler	31		
Sprinklers		A-G57225-M_Fire_sprinkler	3		
Stair Tags		A-G23-A_Stair	31		
Stairs		A-G23-A_Stair	31	A-G23-A_Stair	31
Stairs	Down Arrow	A-G23-M_Stair	31	A-G23-MC_Stair	31
Stairs	DOWN Text	A-G23-M_Stair	31	A-G23-MC_Stair	31
Stairs	Hidden Lines	A-G23-MH_Stair	31	A-G23-MH_Stair	31

Category	Sub-Category	Layer Projection	Colour	Layer Cut	Colour
Stairs	Incomplete Stairs	A-G23-M_Stair	31	A-G23-MC_Stair	31
Stairs	Stairs Beyond Cut Line	A-G23-M_Stair	31	A-G23-MC_Stair	31
Stairs	Stringers	A-G23-M_Stair	31	A-G23-MC_Stair	31
Stairs	Stringers Beyond Cut Line	A-G23-MV_Stair	31	A-G23-MV_Stair	31
Stairs	Up Arrow	A-G23-T_Stair	30	A-G23-T_Stair	30
Stairs	UP Text	A-G23-T_Stair	31	A-G23-T_Stair	31
Structural Annotations		A-Z221-T_Text	2		
Structural Area Reinforcement		A-JE3-M_Rebar	171	A-JE3-MC_Rebar	171
Structural Area Reinforcement	Boundary	A-JE3-M_Rebar	171	A-JE3-MC_Rebar	171
Structural Area Reinforcement Symbols		A-Z561-M_Const_Joint	171		
Structural Area Reinforcement Tags		A-Z2211-A_Tag	171		
Structural Beam System Tags		A-G261-A_Beam	171		
Structural Beam Systems		A-G261-M_Beam	12		
Structural Beam Systems	Hidden Lines	A-G261-MH_Beam	1		
Structural Column Tags		A-G262-A_Column	2		
Structural Columns		A-G262-M_Column	52	A-G262-MC_Column	52
Structural Columns	Analytical Model	A-G262-MA_Column	51	A-G262-MA_Column	51
Structural Columns	Hidden Faces	A-G262-MH_Column	52	A-G262-MH_Column	52
Structural Columns	Hidden Lines	A-G262-MH_Column	52	A-G262-MH_Column	52
Structural Columns	Rigid Links	A-G262-M_Column	52	A-G262-MC_Column	52
Structural Columns	Stick Symbols	A-G262-M_Column	52	A-G262-MC_Column	52
Structural Connection Tags		A-Z2211-A_Tag	171		
Structural Connections		A-G26-M_Struct_Member	12		
Structural Foundation Tags		A-G21-A_Foundation	2		

Category	Sub-Category	Layer Projection	Colour	Layer Cut	Colour
Structural Foundations		A-G21-M_Found	32	A-G21-MC_Found	32
Structural Foundations	Analytical Model	A-G21-MA_Found	33	A-G21-MA_Found	33
Structural Foundations	Hidden Lines	A-G21-MH_Found	34	A-G21-MH_Found	34
Structural Framing		A-G26-M_Struct_Member	12	A-G26-MC_Struct_Member	12
Structural Framing	Analytical Model	A-G26-M_Struct_Member	12	A-G26-MC_Struct_Member	12
Structural Framing	Chord	A-G26-M_Struct_Member	12	A-G26-MC_Struct_Member	12
Structural Framing	Girder	A-G26-M_Struct_Member	12	A-G26-MC_Struct_Member	12
Structural Framing	Hidden Faces	A-G26-MH_Struct_Member	1	A-G26-MH_Struct_Member	1
Structural Framing	Hidden Lines	A-G26-MH_Struct_Member	1	A-G26-MH_Struct_Member	1
Structural Framing	Horizontal Bracing	A-G263-M_Bracing	32	A-G263-MC_Bracing	32
Structural Framing	Joist	A-G26-M_Struct_Member	12	A-G26-MC_Struct_Member	12
Structural Framing	Kicker Bracing	A-G263-M_Bracing	32	A-G263-MC_Bracing	32
Structural Framing	Other	A-G26-M_Struct_Member	12	A-G26-MC_Struct_Member	12
Structural Framing	Purlin	A-G26-M_Struct_Member	12	A-G26-MC_Struct_Member	12
Structural Framing	Rigid Links	A-G26-M_Struct_Member	12	A-G26-MC_Struct_Member	12
Structural Framing	Stanchions	A-G26-M_Struct_Member	12	A-G26-MC_Struct_Member	12
Structural Framing	Stick Symbols	A-G26-M_Struct_Member	13	A-G26-MC_Struct_Member	13
Structural Framing	Vertical Bracing	A-G263-M_Bracing	32	A-G263-MC_Bracing	32
Structural Framing	Web	A-G26-M_Struct_Member	13	A-G26-MC_Struct_Member	13
Structural Framing Tags		A-G26-A_Struct_Member	2		
Structural Internal Loads		A-N311-M_Load	2		
Structural Internal Loads	Internal Area Loads	A-N311-M_Load	2		
Structural Internal Loads	Internal Line Loads	A-N311-M_Load	2		
Structural Internal Loads	Internal Point Loads	A-N311-M_Load	2		

Category	Sub-Category	Layer Projection	Colour	Layer Cut	Colour
Structural Load Cases		A-N311-M_Load	2		
Structural Load Cases	Accidental Loads	A-N311-M_Load	2		
Structural Load Cases	Dead Loads	A-N311-M_Load	2		
Structural Load Cases	Live Loads	A-N311-M_Load	2		
Structural Load Cases	Roof Live Loads	A-N311-M_Load	2		
Structural Load Cases	Seismic Loads	A-N311-M_Load	2		
Structural Load Cases	Snow Loads	A-N311-M_Load	2		
Structural Load Cases	Temperature Loads	A-N311-M_Load	2		
Structural Load Cases	Wind Loads	A-N311-M_Load	2		
Structural Loads		A-N311-M_Load	2		
Structural Loads	Area Loads	A-N311-M_Load	2		
Structural Loads	Line Loads	A-N311-M_Load	2		
Structural Loads	Point Loads	A-N311-M_Load	2		
Structural Path Reinforcement		A-JE3-A_Reinforcement	2	A-JE3-A_Reinforcement	2
Structural Path Reinforcement	Boundary	A-JE3-A_Reinforcement	2	A-JE3-A_Reinforcement	2
Structural Path Reinforcement Symbols		A-G26-M_Struct_Member	12		
Structural Path Reinforcement Tags		A-Z2211-A_Tag	171		
Structural Rebar		A-Z2211-A_Tag	171	A-Z2211-A_Tag	171
Structural Rebar Tags		A-G26-M_Struct_Member	12		
Structural Stiffener Tags		A-Z2211-A_Tag	171		
Structural Stiffeners		A-G26-M_Struct_Member	12	A-G26-MC_Struct_Member	12
Structural Truss Tags		A-Z2211-A_Tag	171		
Structural Trusses		A-G26-M_Struct_Member	12		
Structural Trusses	Stick Symbols	A-G26-M_Struct_Member	12		

Category	Sub-Category	Layer Projection	Colour	Layer Cut	Colour
Telephone Device Tags		A-G5551-A_Tele	231		
Telephone Devices		A-G5551-M_Tele	2		
Text Notes		A-Z221_Text	6		
Title Blocks		A-Z1-M_Title_Sheet	33		
Title Blocks	Medium Lines	A-Z774-M_Line_Medium	33		
Title Blocks	Thin Lines	A-Z772-M_Line_Thin	151		
Title Blocks	Wide Lines	A-Z776-M_Line_Wide	214		
Topography		A-Z471-M_Topo	1	A-Z471-MC_Topo	1
Topography	Boundary Point	A-Z471-M_Topo	1	A-Z471-MC_Topo	1
Topography	Hidden Lines	A-Z471-MH_Topo	1	A-Z471-MH_Topo	1
Topography	Interior Point	A-Z471-M_Topo	1	A-Z471-MC_Topo	1
Topography	Primary Contours	A-Z4711-M_Contour_Major	1	A-Z4711-MC_Contour_Major	1
Topography	Secondary Contours	A-Z4712-M_Contour_Minor	1	A-Z4712-MC_Contour_Minor	1
Topography	Triangulation Edges	A-Z471-M_Topo	1	A-Z471-MC_Topo	1
Underlay		A-Z31-M-XREF	1	A-Z31-M-XREF	1
View Reference		A-Z2213-A_Reference	211		
View Titles		A-Z2213-A_Reference	211		
Viewports		A-Z111-P-Viewport	140		
Wall Tags		A-G25-A_Wall	152		
Walls		A-G25-M_Wall	114	A-G25-MC_Wall	114
Walls	Analytical Model	A-G25-MA_Wall	111	A-G25-MA_Wall	111
Walls	Common Edges	A-G25-M_Wall	114	A-G25-MC_Wall	114
Walls	Curtain Wall Grids	A-G257-MG_Wall_Curt	2	A-G257-MG_Wall_Curt	2

Category	Sub-Category	Layer Projection	Colour	Layer Cut	Colour
Walls	Cut Pattern	A-G25-H_Wall	111	A-G25-H_Wall	111
Walls	Finish 1 [4]	A-G2511-M_Wall_Fin_Ext	113	A-G2511-MC_Wall_Fin_Ext	113
Walls	Finish 2 [5]	A-G2511-M_Wall_Fin_Ext	113	A-G2511-MC_Wall_Fin_Ext	113
Walls	Hidden Lines	A-G25-MH_Wall	110	A-G25-MH_Wall	110
Walls	Membrane Layer	A-G2506-M_Wall_Memb	113	A-G2506-MC_Wall_Memb	113
Walls	Structure [1]	A-G2502-M_Wall_Struct	113	A-G2502-MC_Wall_Struct	113
Walls	Substrate [2]	A-G2503-M_Wall_Sub	113	A-G2503-MC_Wall_Sub	113
Walls	Surface Pattern	A-G25-H_Wall	111	A-G25-H_Wall	111
Walls	Thermal/Air Layer [3]	A-G25-M_WallIns	113	A-G25-MC_WallIns	113
Walls	Wall Sweep - Cornice	A-G2507-M_Wals_Edge	113	A-G2507-MC_Wals_Edge	113
Walls	Wall Sweeps	A-G2507-M_Wall_Edge	113	A-G2507-MC_Wall_Edge	113
Walls/Interior:1		A-G251-M_Wall_Int	72	A-G251-MC_Wall_Int	72
Walls/Exterior:2		A-G256-M_Walls_Ext	113	A-G256-MC_Walls_Ext	113
Walls/Foundation:3		A-G252-M_Wall_Sub	32	A-G252-MC_Wall_Sub	32
Walls/Retaining:4		A-G254-M_Wall_Ret	31	A-G254-MC_Wall_Ret	31
Window Tags		A-G321-T_Window	181		
Windows		A-G321-M_Window	151	A-G321-M-Window	151
Windows	Cavity Closer	A-G321-M_Window	151	A-G321-M-Window	151
Windows	Elevation Swing	A-G321-M_Window	151	A-G321-M-Window	151
Windows	Frame/Mullion	A-G321-M_Window	151	A-G321-M-Window	151
Windows	Glass	A-G321-M_Window	151	A-G321-M-Window	151
Windows	Hidden Lines	A-G321-MH-Window	151	A-G321-MH-Window	151
Windows	Moulding	A-G321-M_Window	151	A-G321-M-Window	151
Windows	Opening	A-G321-M_Window	151	A-G321-M-Window	151

Category	Sub-Category	Layer Projection	Colour	Layer Cut	Colour
Windows	Plan Swing	A-G321-M_Window	151	A-G321-M-Window	151
Windows	Sill/Head	A-G321-M_Window	151	A-G321-M-Window	151
Windows	Trim	A-G321-M_Window	152	A-G321-M-Window	152
Wire Tag		A-L6762-A_Wire	181		
Wires		A-L6762-M_Wire	181		
Wires	Home Run Arrows	A-L6762-A_Wire	181		
Wires	Wire Tick Marks	A-L6762-A_Wire	181		
Zone Tags		A-Z461-A_Zone	151		

Appendix E - Oakley CAD Layer Creator

As an Autodesk Developer Oakley CAD Services have developed a number of Layer creation application to meet Client's needs. The Layer Creator application created by Oakley CAD Services Ltd is a windows application for both 32 and 64 bit windows operating systems that uses a centralised database (.mdb) to create layers based upon the layer standard defined. Oakley CAD Services can provide a number of layer standards for use in the form of predefined databases or alternatively a customised data base can be configured. For use in the UK we recommend the use of the BS1192:2007 standard that promotes the use of the Uniclass classification and the CPIC Uniclass version 1.4 classifications are the preferred versions for use.

The database includes the standard field names, descriptions, pen settings and line types for use with both CTB and STB formats. This also complies with the layer format for the Layer Key styles for AutoCAD Architecture and the Layer Exports from Revit.

The Layer Creator is as separate Windows application that creates Layers in the open version of AutoCAD. It is recommended that only one copy of AutoCAD is open when the Layer Creator application is run, to ensure that layers are created in the correct copy of AutoCAD.

Start the Layer Creator application from the desktop shortcut

Configuration

AutoCAD Version

For first time use the Layer Configuration form will appear. This asks for the current version of AutoCAD to be selected. This will only speed up the initial start, as the application will automatically find the current version of AutoCAD

Database Path

This is the path to the layer database (.mdb) file, usually stored upon a network location. Check with your administrator or contact info@oakley-cad.co.uk for database configuration information.

Layer Creator Configuration

Oakley CAD Services Ltd
"Making CAD Work"

Configure for:

AutoCAD Version: AutoCAD LT

Link Application: AutoCAD LT.DDE

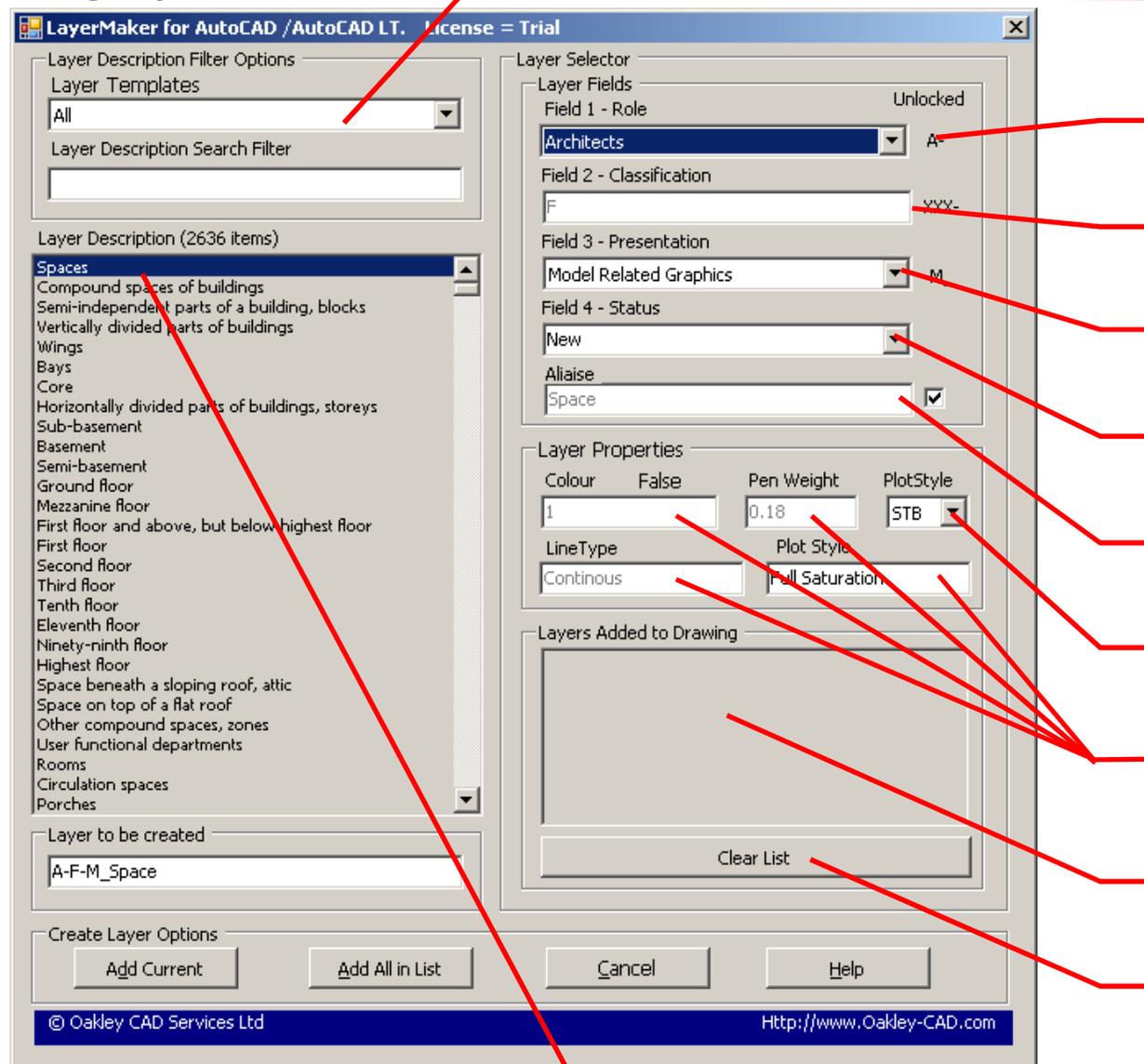
Link Topic: AutoCAD LT

Configure Database Information:

Database Path: C:\Data\UniclassV14.mdb [Browse]

Cancel Next

Using Layer Creator



Layer Templates / Filters
Use the layer templates or Layer Description filters to find the appropriate layer or group of layers.

Field 1 – Role
Set Role type such as Architect

Field 2 – Classification
Will be set automatically by selecting the description

Field 3 – Presentation
Set presentation type such as Model Graphics

Field 4 – Status
For “New” works this is left black

Alias
Will be set automatically by selecting the description

Plot Styles
Set to either CTB or STB plot styles

Layer Properties
Will be set automatically by selecting the description

Layers added to drawing will be listed here to confirm layer creation,

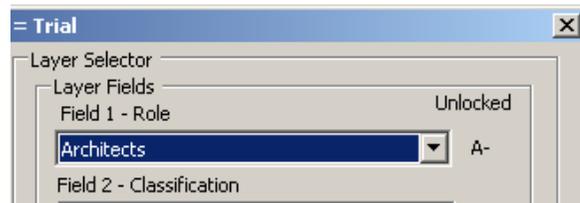
Layers added to drawing will be listed here to confirm layer creation, Use Clear List button to reset

Click Description to set layer properties or double click description to create layer.

Layer Creator Fields

The Layer Creator works by creating layer names based upon values in the database which sets the value of the various fields. The fields lists for BS1192:2007 are defined as follows:-

Field 1 – Role



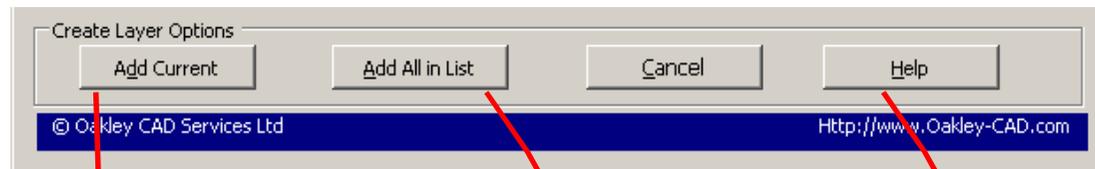
Set the Field 1- Role value to match the role undertaken text to the appropriate BS1192:2007 Role, such as Architects from the list provided. The field value will then be set and added to the layer name.

Field 3 – Presentation



Set the Field 3 – Presentation to the appropriate presentation description and the presentation code will be added to the layer name.

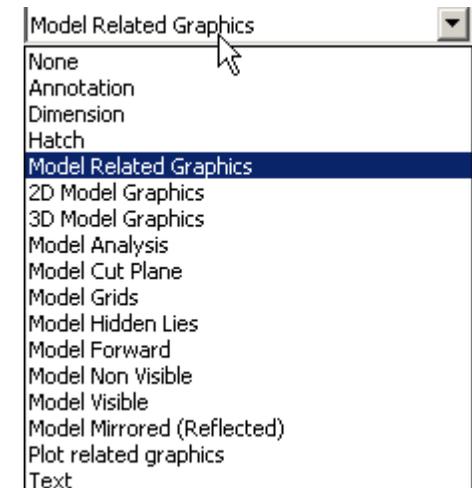
Create Layer Buttons



Creates a New Layer and sets as the Current Layer

Creates all Layers from the descriptions currently shown

Access the online Help files



Further Information

For further information regarding BS1192 please refer to the BSI website:

[BS1192:](#)
[Building Information Management. A Standard Framework and Guide to BS 1192](#)

For Further Information regarding Uniclass please refer to the CPIC Website
<http://www.cpic.org.uk/>

For further Information about Oakley CAD Services Ltd, comments on this document or the range of Layer Creation Tools or other development work then please refer to our website:

[Http://www.oakley-cad.co.uk](http://www.oakley-cad.co.uk)

Or contact us by email:

Info@Oakley-cad.co.uk