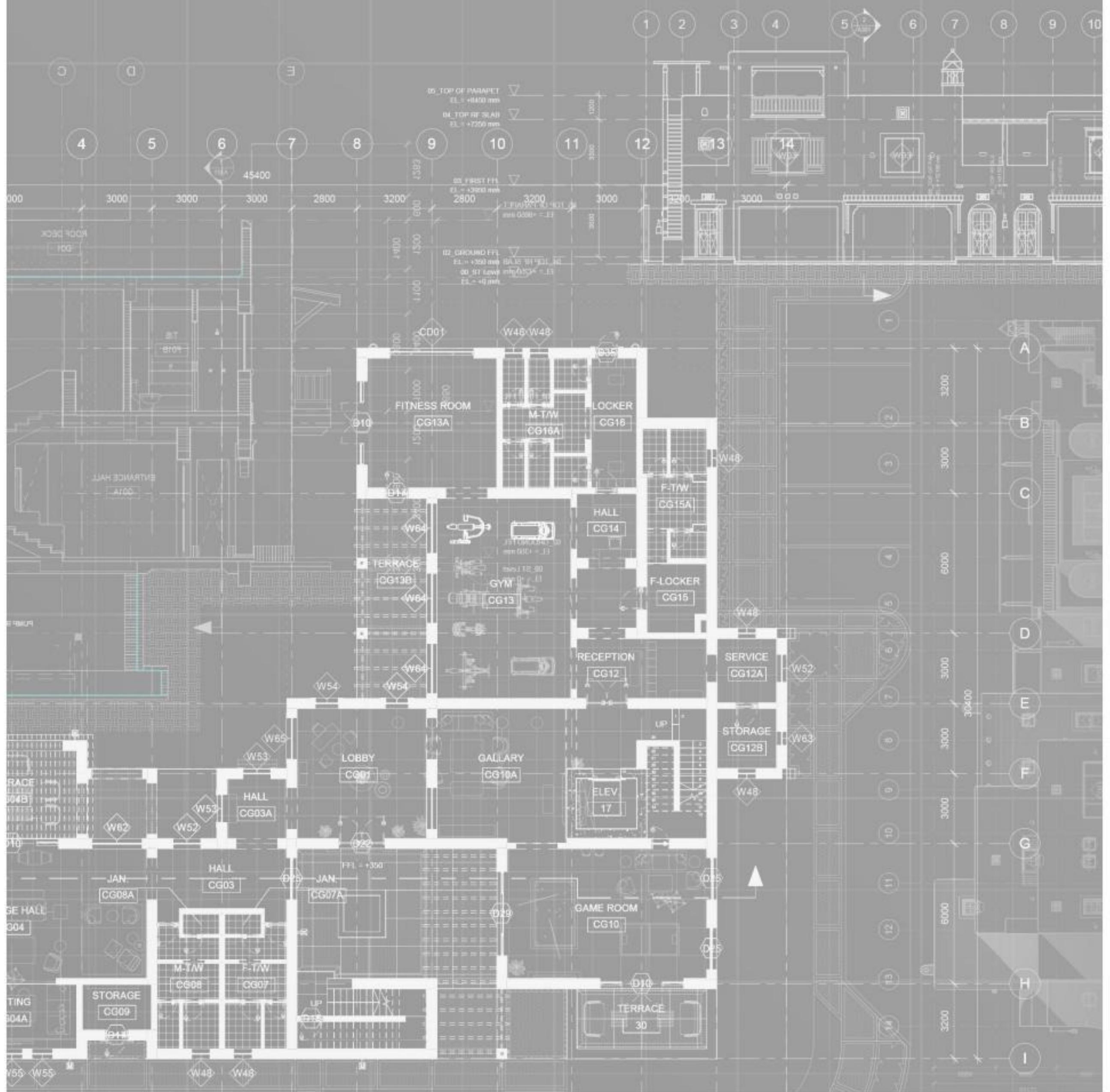


R

BUILDING INFORMATION MODELING

REVIT TECHNICAL MANUAL FOR ARCHITECTURAL AND ENGINEERING CONSULTANTS

Complete Office Guide For Higher Productivity & Lower Costs using BIM Technology.



AUTHOR

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Separate sheet views for each sheet in the construction document set can be created. Multiple drawings or schedules can be placed on each sheet view.

The diagram illustrates the organization of drawing sheets in Revit. On the left, a 'Project Browser - HAK_Architectural Template(Recovery)' window shows a flat list of sheet views under 'Views (HAK_Organization)'. A red arrow points to the right, where the same browser window displays the same list but with each sheet view expanded into its specific AIA series type. Below the browser, a 'Properties' dialog box for a sheet titled 'MASTER LAYOUT' shows the 'Series' field is set to '100.000000'.

Project Browser - HAK_Architectural Template(Recovery)

- Views (HAK_Organization)
 - Design
 - Production
 - Legends
 - Schedules/Quantities (all)
 - Sheets (HAK_Series)**
 - 0
 - 100
 - 200
 - 300
 - 400
 - 500
 - 600
 - 700
 - 800
 - 900
 - Families
 - Groups
 - Revit Links

« Sheets are organized according to AIA standards with a series numbers from 900 - 0 »

Project Browser - HAK_Architectural Template(Recovery)

- Views (HAK_Organization)
 - Design
 - Production
 - Legends
 - Schedules/Quantities (all)
 - Sheets (HAK_Series)**
 - 0
 - GEN 001 - MAIN COVER SHEET
 - GEN 002 - TABLE OF CONTENTS
 - GEN 003 - ARCHITECTURAL GENERAL NOTES & ABBREVIATIONS
 - X1 - WELCOME PAGE**
 - X2 - ALL TITLE BLOCKS
 - 100
 - AE 100 - MASTER LAYOUT
 - 200
 - AE 200 - FLOOR PLAN
 - 300
 - AE 300 - SECTION & ELEVATION
 - 400
 - AE 400 - WALL DETAIL
 - 500
 - AE 500 - STAIR DETAILS
 - 600
 - AE 600 - TYPICAL DETAILS
 - 700
 - AE 700 - TOILET & KITCHEN DETAILS
 - 800
 - AE 800 - SCHEDULES
 - 900
 - AE 900 - INTERIOR DETAILS
 - Families
 - Groups
 - Revit Links

« Expanding each title will display the various sheet with an indication for each series type of documents should be included »

« Sheets are organized according to AIA standards with numbering series from 900 - 0 »

Line styles and patterns are used to indicate different effects for drawings presentation.

2D DRAFTING LINES

0.13mm	01-EXTRA FINE
0.18mm	02-FINE
0.25mm	03-THIN
0.35mm	04-MEDIUM
0.50mm	05-WIDE
0.70mm	06-EXTRA WIDE
1.00mm	07-XX WIDE
1.40mm	08-XXX WIDE
2.00mm	09-XXXX WIDE

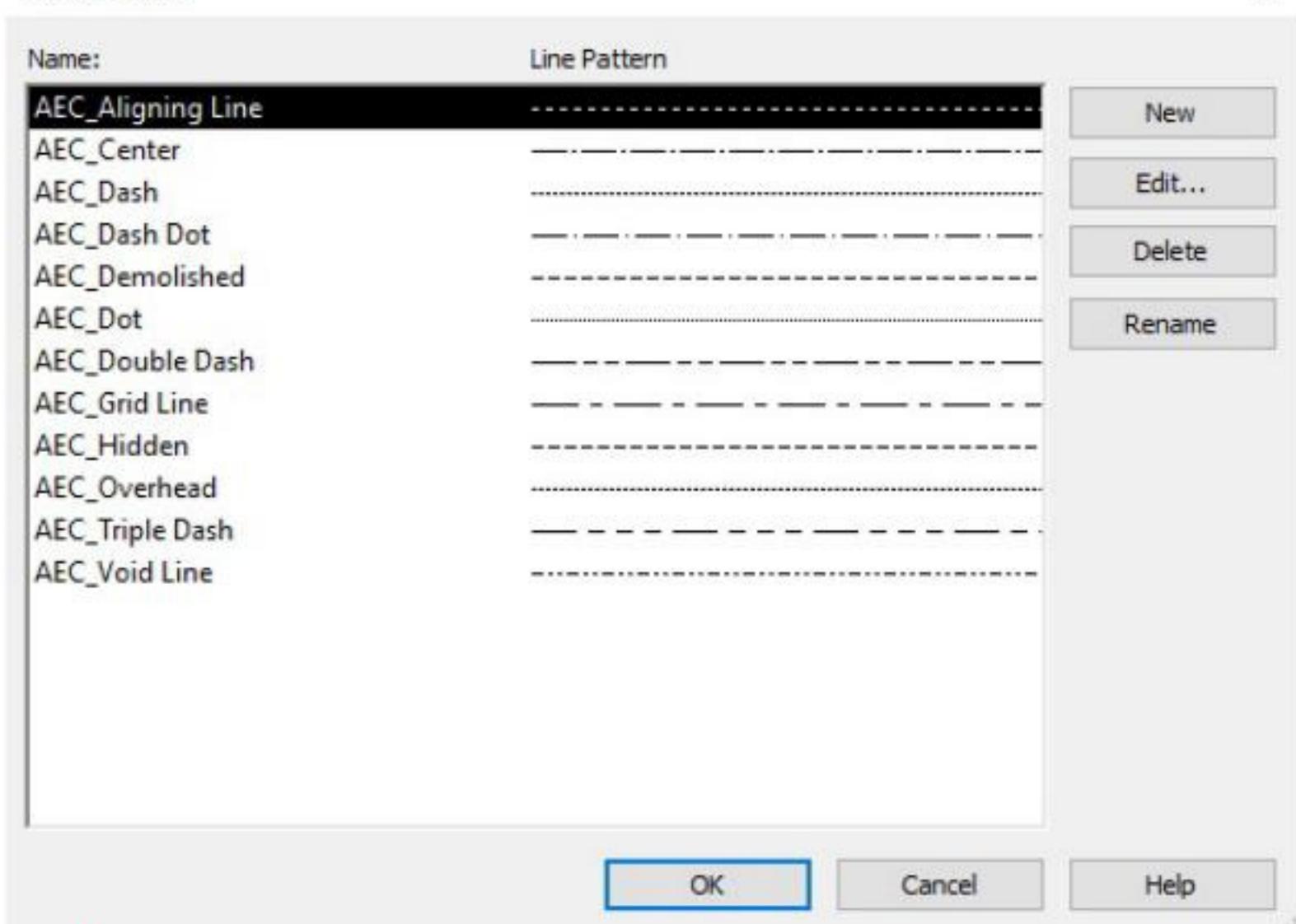
« Use 2D Drafting Line types for all details or drafting for drawings such as plans, sections, elevations, callouts, annotations, etc. »

3D OBJECT LINES

PEN-01 0.13mm	RED	LIGHT GRAY
PEN-02 0.18mm	YELLOW	DARK GRAY
PEN-03 0.25mm	GREEN	
PEN-04 0.35mm	CYAN	
PEN-05 0.50mm	BLUE	
PEN-06 0.70mm	MAGENTA	
PEN-07 1.00mm		
PEN-08 1.40mm		
PEN-09 2.00mm	BLACK	

« Use 3D Object Line types when changing object styles of the models or creating new 3D families, generic models, etc. »

Line Patterns



2D DRAFTING LINES

BEYOND
CENTERLINE
DEMOLISHED
HIDDEN
OVERHEAD
CONTRACT LIMIT LINE
DASH LINE
GRAY LINE
HIDDEN LINES
GREEN LINE
NPLT
RED LINE
VOID LINES
WATER PROOF MEMBRANE
BLUE LINE

« Use these 2D Drafting Lines for detailing your section, callouts or large scale details »

« Those are the most common Line patterns you can use. When creating any new line pattern, make sure to name it with a *AEC Line Pattern* and delete any other unnecessary line patterns. Note: Review with BIM Manager / BIM Coordinator before applying. »

Text and Dimensions Styles are adjusted to AIA standards. Use Text sizes as described and for the dimensions you will find Interior & Exterior dimensions for each dimension type.

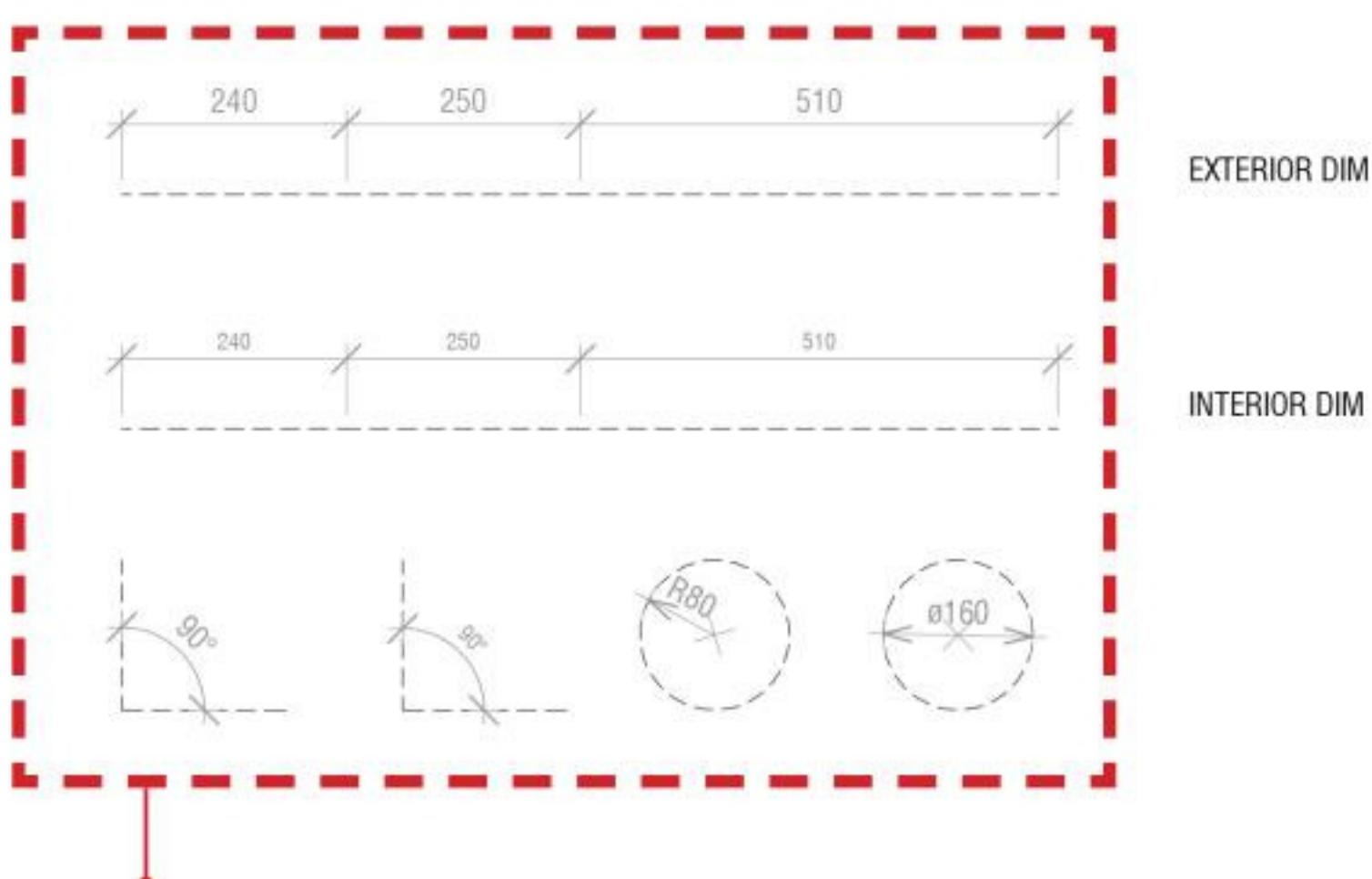
TEXT STYLE

1.8MM	GENERAL TEXT, DIMENSIONS, NOTES - USED ON A3 & A4 SIZE DRAWINGS
2.5MM	GENERAL TEXT, DIMENSIONS, NOTES
3.5MM	SUB-HEADINGS
3.5MM	GENERAL TEXT, DIMENSIONS, NOTES - A0 DRAWINGS
5.0MM	NORMAL TITLES, DRAWING NUMBERS
7.0MM	MAJOR TITLES



« All texts should be minimum size of 2.5mm, you can use 1.8mm for special cases. Note: Custom Texts with Red color or Name of NPLT are not for plotting and should be deleted/hidden before printing »

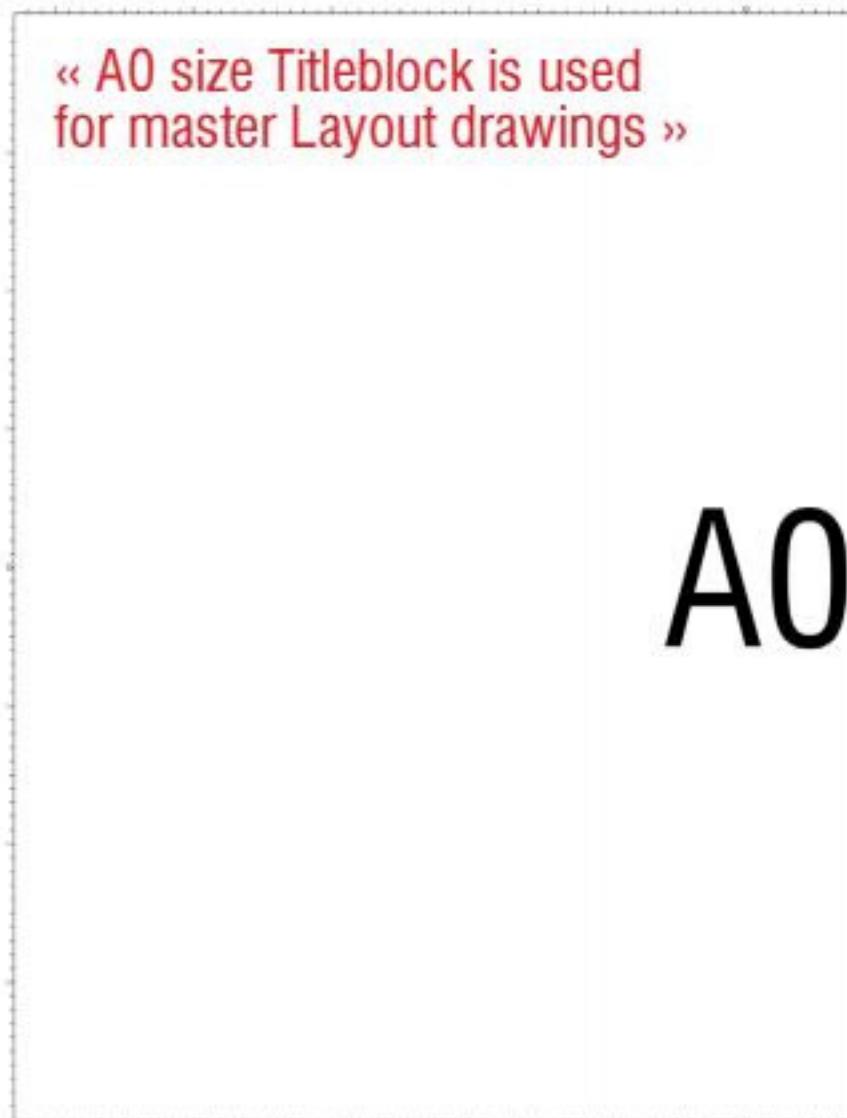
DIMENSIONS STYLE



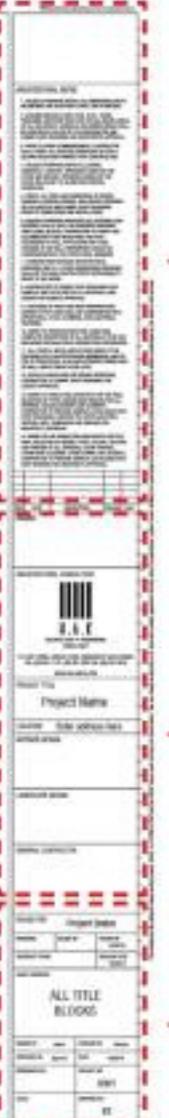
« All Dimensions types are subdivided into 2 categories Exterior / Interior. Use Exterior Dimensions for all exterior elements and Interior Dimensions for all interior spaces. »

All Titleblocks are Designed according to AIA standards and assigned with standard line weights

« A0 size Titleblock is used for master Layout drawings »



A0

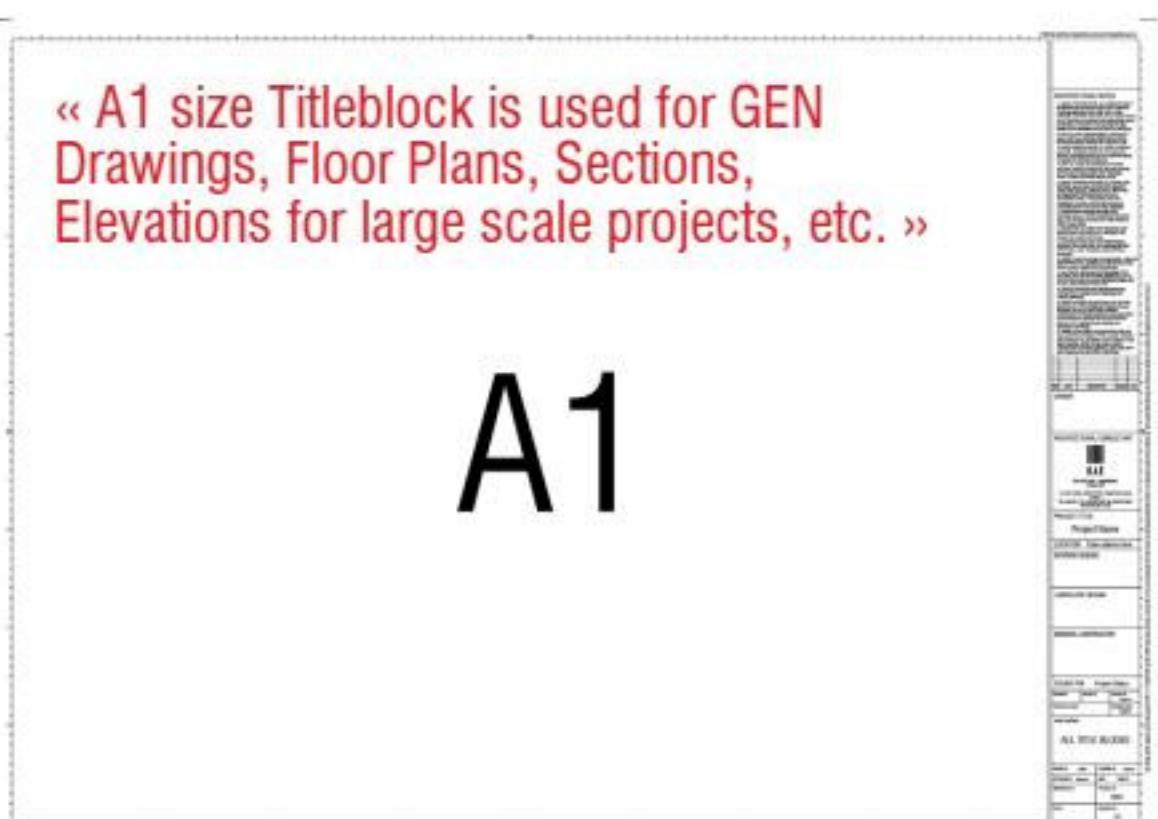


« The Top part of the titleblock should contain information that includes Notes, Legends, & North Arrow. The Bottom part is adjusted for Revision schedule. »

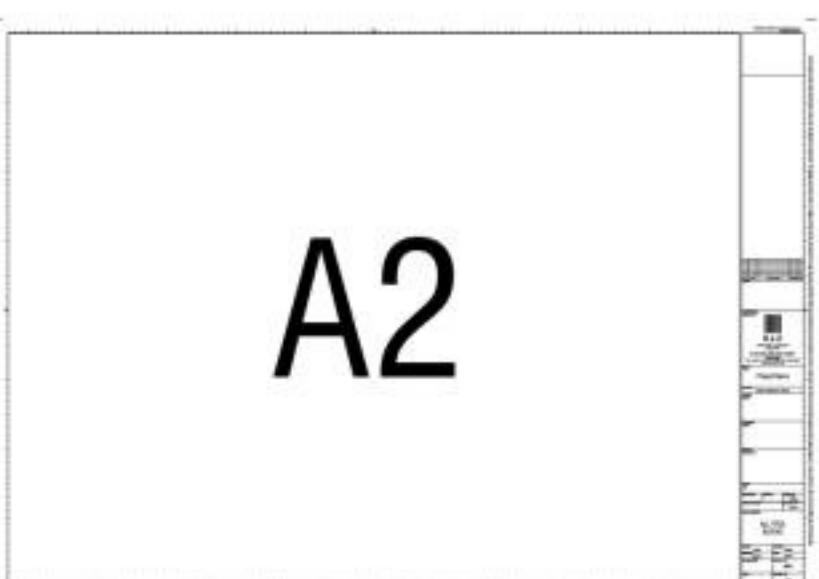
« This part of the Titleblock has information about the consultant, client, project information, contractor, & other participating designers »

« The last division of the Titleblock, has information on the drawing such as rev, check, drawn, proj. no, etc. »

« A1 size Titleblock is used for GEN Drawings, Floor Plans, Sections, Elevations for large scale projects, etc. »

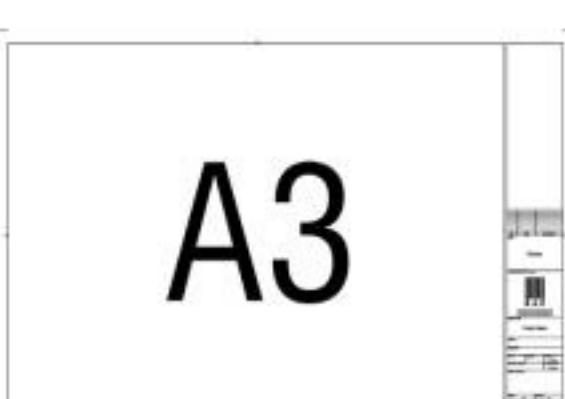


A1



A2

« A2 size Titleblock is used for Floor Plans, Sections, Elevations, etc, on small projects »

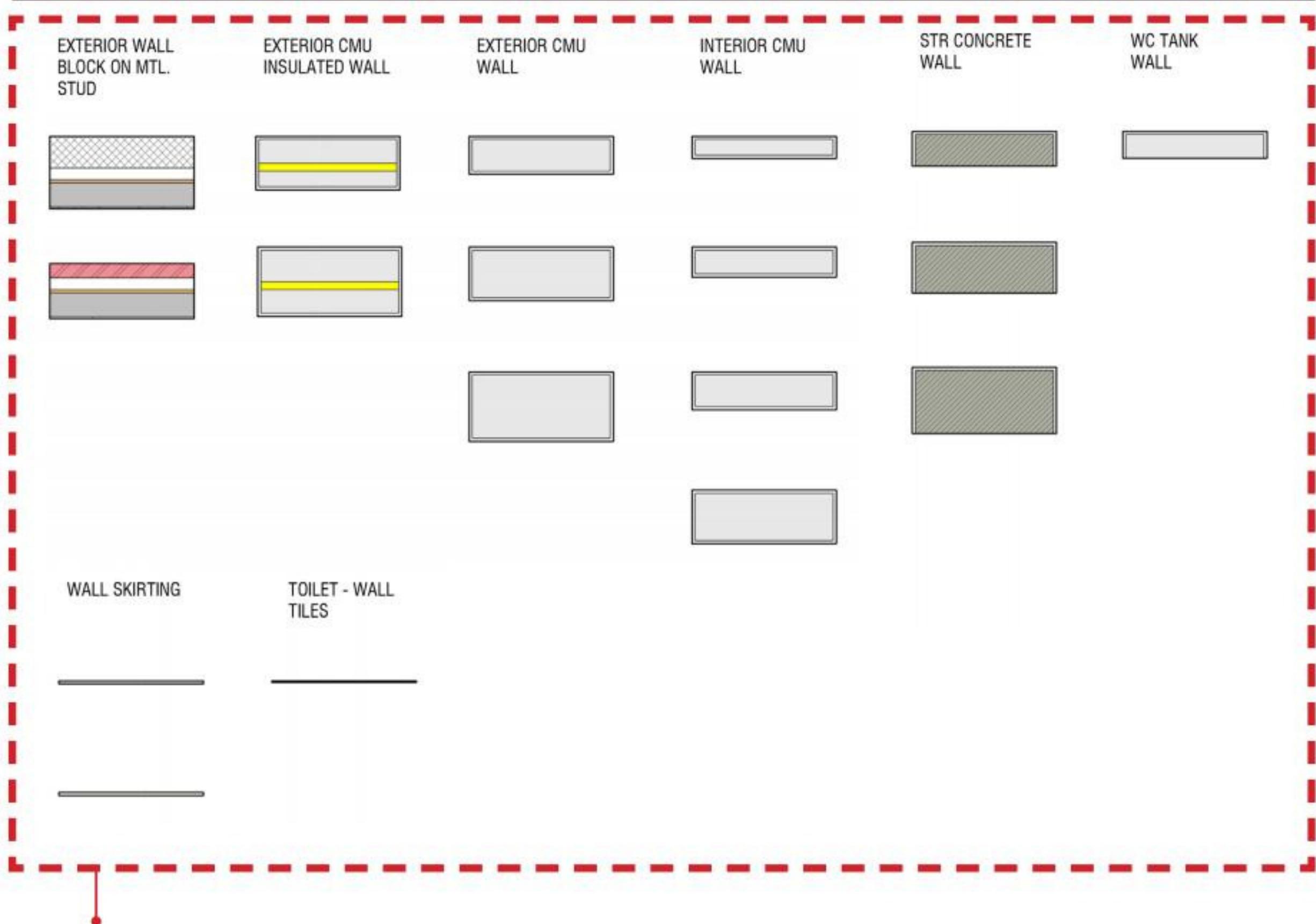


A3

« A3 size Titleblock is used for Interior Design Drawings mainly. »

Most common used Wall Types are created with detailed layers for production drawings and can be switched to coarse view for design drawings presentation.

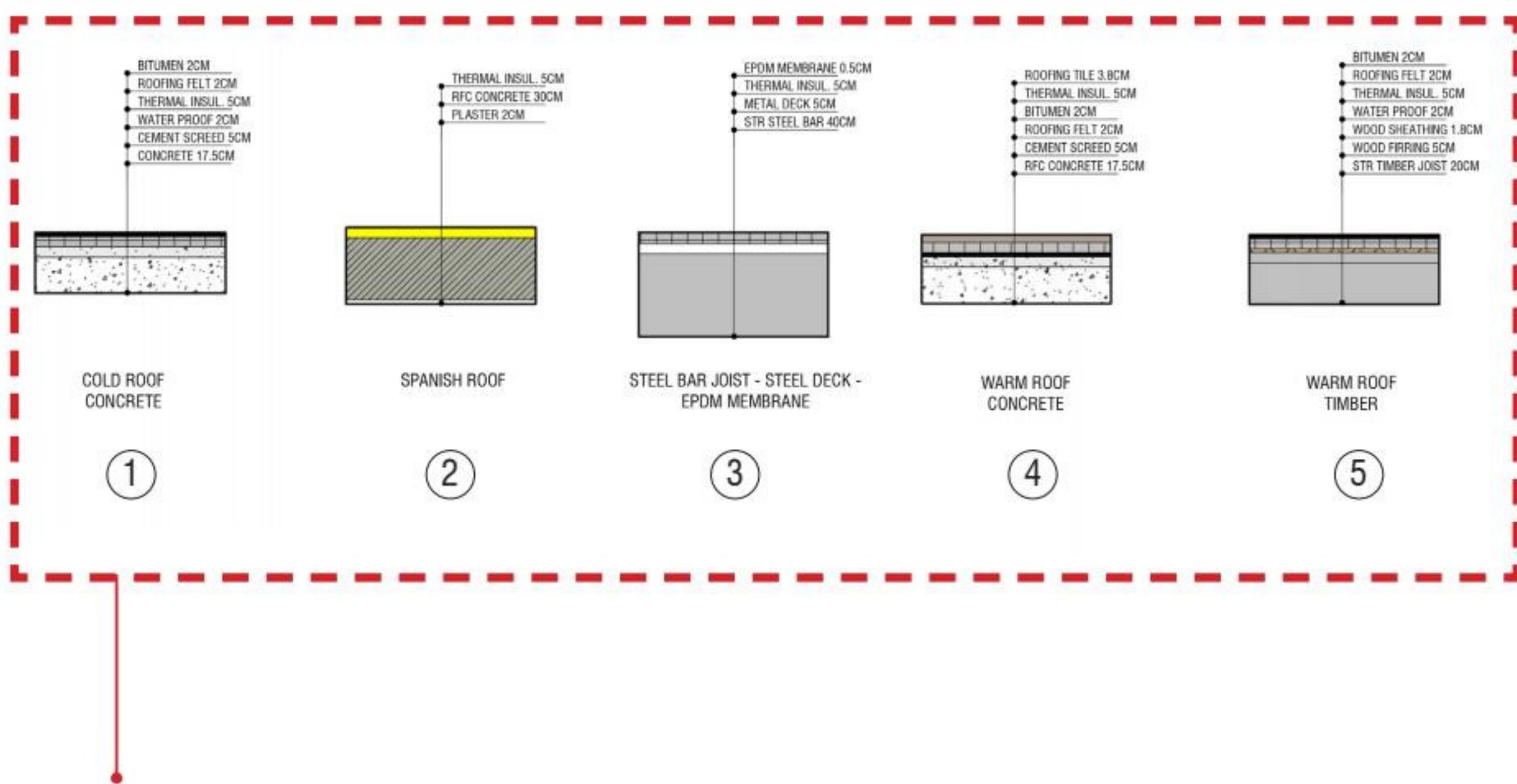
WALL LEGEND



« You can create new wall types based on the project requirements but make sure to review it with the BIM Manager / BIM Coordinator before applying. »

Modify type properties to change a roof family's structure, fill pattern, and more.

ROOF LEGEND

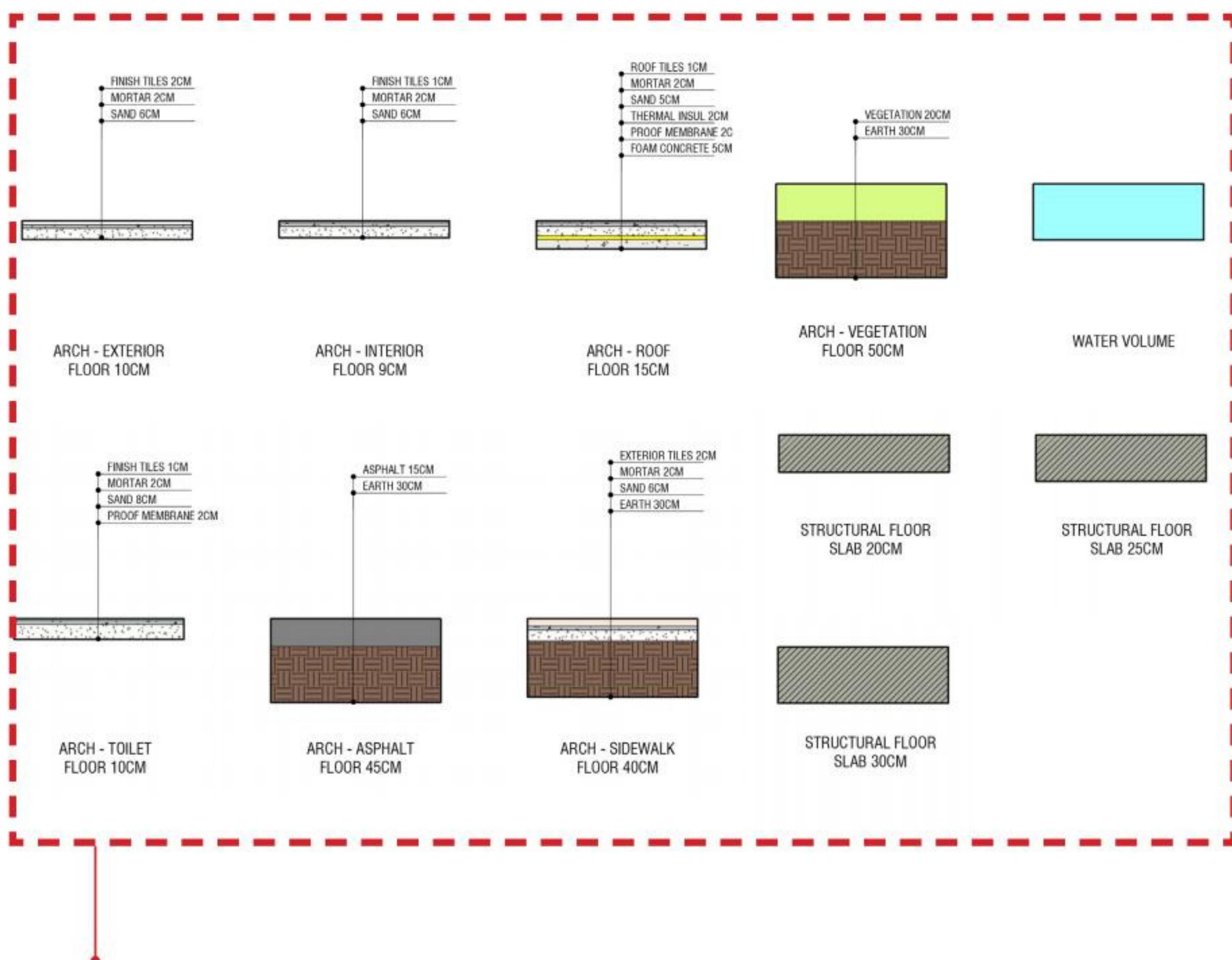


1. Cold Roof Concrete
2. Spanish Roof - Solid Part
3. Steel Deck
4. Warm Roof Concrete
5. Warm Roof Timber

NOTE: You can add new Roof types with coordination of BIM Manager / BIM Coordinator

Modify type properties to change a floor's structure, default thickness, function, and more.

FLOOR LEGEND



To change type properties, select an element and click:
Modify tab → Properties panel → Type Properties.
Changes to type properties apply to all instances in the project.

Note: You can add new Floor Types with coordination of BIM Manager / BIM Coordinator before applying.

Modify type properties to change the structure and thickness of a ceiling, its fill pattern, and more.

CEILING LEGEND

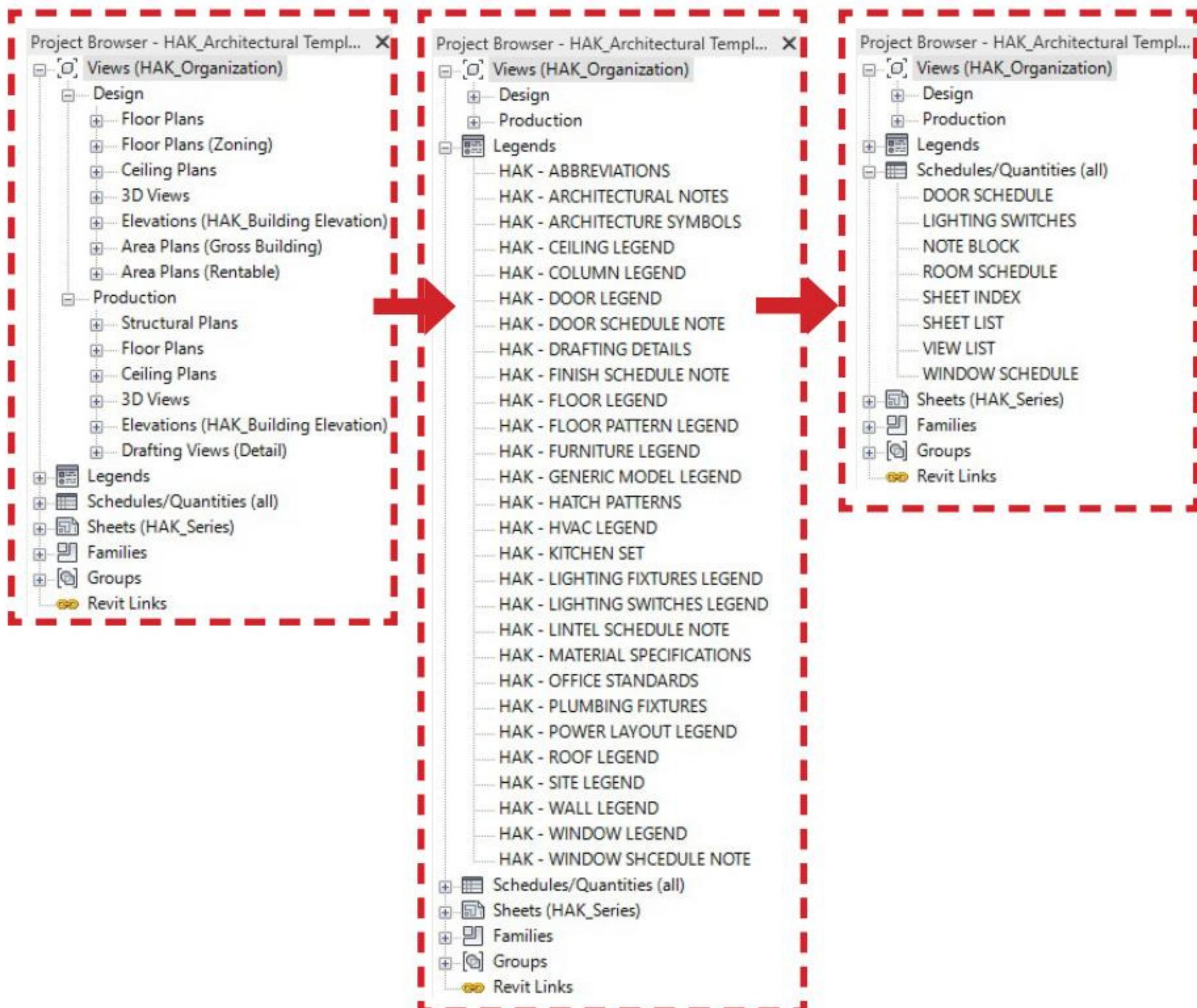


To change type properties, select an element and click:
Modify tab -> Properties panel -> Type Properties.
Changes to type properties apply to all instances in the project.

Note: You can add new Ceiling Types with coordination of BIM Manager / BIM Coordinator before applying.

Project Browser can be customized by grouping, sorting, filtering the lists of views, sheets and schedules/quantities.

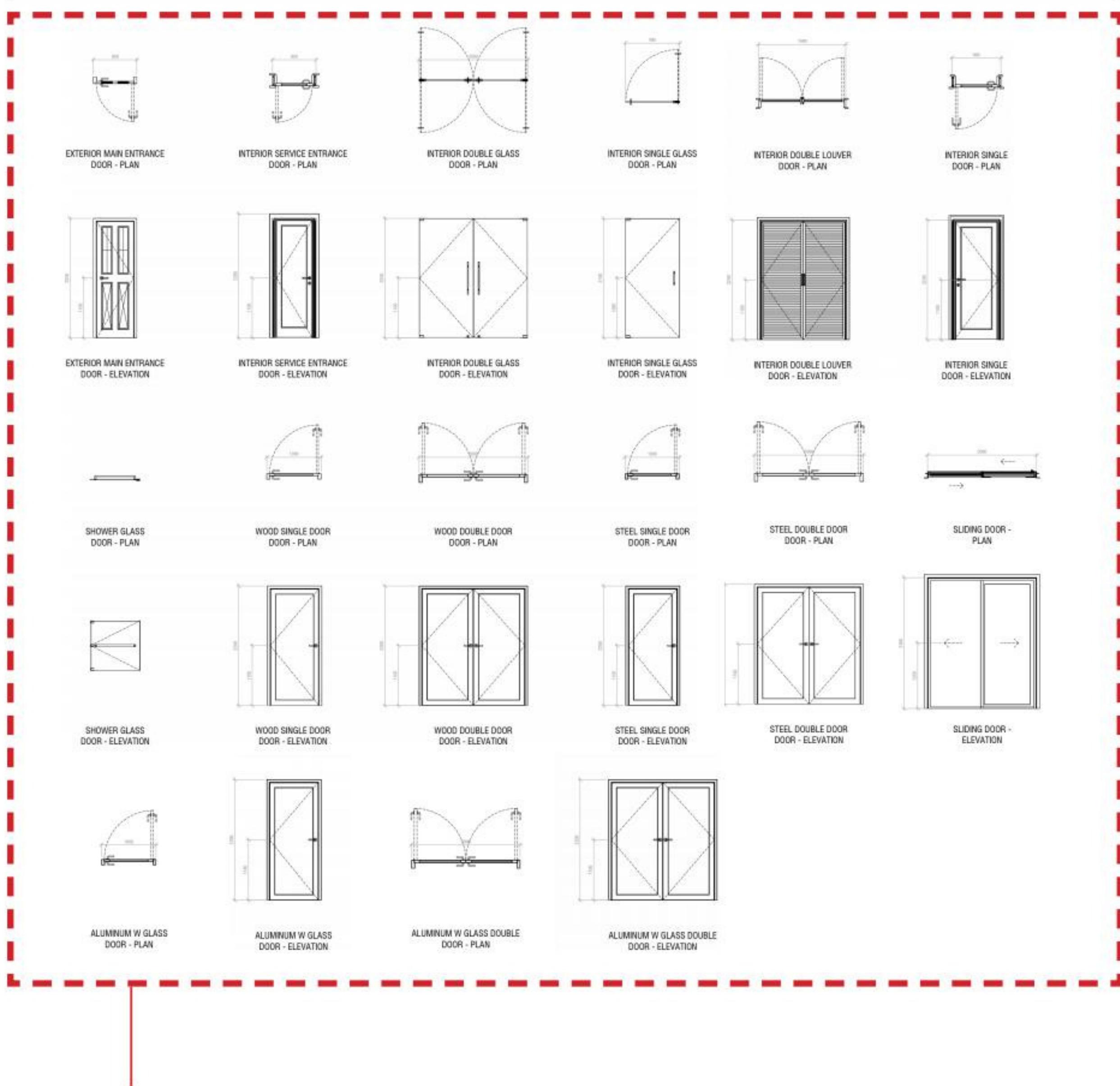
PROJECT BROWSER



« Project Browser is subdivided into Design Department & Production Department, with all types of Legend Library to use and most common schedules. »

This is the most common used Parametric Door Families with all information in it, including the lintel parameters, Door Leaf, Door Width, Rough Height, & Rough Width.

DOOR LEGEND



« Do not Load any outsourced Door family without approval of BIM Manager / BIM Coordinator. »

This is the most common used Parametric Door Families with all information in it, including the lintel parameters, Door Leaf, Door Width, Rough Height, & Rough Width.



« Do not Load any outsourced window family without approval of BIM Manager / BIM Coordinator. »

Create schedules, quantities, and material takeoffs to quantify and analyze the components and materials used in a project.

DOOR SCHEDULE													MATERIALS				HARDWARE		
					Dimensions				MATERIALS				HARDWARE						
LEVEL	FUNCTION	MODEL	DOOR TAG	BUILDING LOCATION	ROUGH HEIGHT	ROUGH WIDTH	HEIGHT	WIDTH	OPERATION	COUNT	FIRE RATING	FRAME	PANEL	LEAVES	ARCHITRAVE	HINGES	HANDLE / LOCKSETS	ACCESSORIES	REMARKS

« Door Schedule with shared parameters. »

LIGHTING SWITCHES				
Level	Mark	Type	Description	Comments

« Lighting Switches Schedule with shared parameters. »

ROOM SCHEDULE													
				INTERIOR FINISHES									
LEVEL	NUMBER	NAME	AREA	FLOOR FINISH	THRESHOLD	BASED FINISH	WALL FINISH	CEILING FINISH	STAIR THREAD	STAIR RISER	STAIR LANDING	COUNT	REMARKS

« Room Schedule with shared parameters. »

WINDOW SCHEDULE													
				DIMENSIONS				MATERIALS					
LEVEL	MODEL	WINDOW TAG	DESCRIPTION	ROUGH HEIGHT	ROUGH WIDTH	HEIGHT	WIDTH	SILL HEIGHT	OPERATION	COUNT	FRAME MATERIAL	GLAZING MATERIAL	REMARKS

« Window Schedule with shared parameters. »

SHEET INDEX	
SHEET NO.	SHEET CONT.
GEN 001	MAIN COVER SHEET
GEN 002	TABLE OF CONTENTS
GEN 003	ARCHITECTURAL GENERAL NOTES & ABBREVIATIONS
0: 3	
AE 100	MASTER LAYOUT
100: 1	
AE 200	FLOOR PLAN
200: 1	
AE 300	SECTION & ELEVATION
300: 1	
AE 400	WALL DETAIL
400: 1	
AE 500	STAIR DETAILS
500: 1	
AE 600	TYPICAL DETAILS
600: 1	
AE 700	TOILET & KITCHEN DETAILS
700: 1	
AE 800	SCHEDULES
800: 1	
AE 900	INTERIOR DETAILS
900: 1	

SHEET LIST					
DRAWING NO.	SHEET NO.	SHEET CONT.	SHEET SIZE	SCALE	REF. NO.
001	GEN 001	MAIN COVER SHEET	HAK_A1 Titleblock : A1		
002	GEN 002	TABLE OF CONTENTS	HAK_A1 Titleblock : A1		
003	GEN 003	ARCHITECTURAL GENERAL NOTES & ABBREVIATIONS	HAK_A1 Titleblock : A1		
	AE 100	MASTER LAYOUT			
	AE 200	FLOOR PLAN			
	AE 300	SECTION & ELEVATION			
	AE 400	WALL DETAIL			
	AE 500	STAIR DETAILS			
	AE 600	TYPICAL DETAILS			
	AE 700	TOILET & KITCHEN DETAILS			
	AE 800	SCHEDULES			
	AE 900	INTERIOR DETAILS			

« Sheet Index is placed on the cover page just for reference, while the sheet list is one of the GEN Drawings. »

Create schedules, quantities, and material takeoffs to quantify and analyze the components and materials used in a project.

VIEW LIST		
Project Stage	Family	View Name
Design	3D View	{3D}
Design	Area Plan	D00-B1 LEVEL
Design	Area Plan	D00-B1 LEVEL
Design	Area Plan	D00-ST LEVEL
Design	Area Plan	D00-ST LEVEL
Design	Area Plan	D01-LS LEVEL
Design	Area Plan	D01-LS LEVEL
Design	Area Plan	D02-GF LEVEL
Design	Area Plan	D02-GF LEVEL
Design	Area Plan	D03-1ST LEVEL
Design	Area Plan	D03-1ST LEVEL
Design	Area Plan	D04-2ND LEVEL
Design	Area Plan	D04-2ND LEVEL
Design	Ceiling Plan	D00-B1 LEVEL
Design	Ceiling Plan	D00-ST LEVEL
Design	Ceiling Plan	D01-LS LEVEL
Design	Ceiling Plan	D02-GF LEVEL
Design	Ceiling Plan	D03-1ST LEVEL
Design	Ceiling Plan	D04-2ND LEVEL
Design	Ceiling Plan	D05-TOS LEVEL
Design	Elevation	D-EAST

VIEW LIST		
Project Stage	Family	View Name
Design	Elevation	D-NORTH
Design	Elevation	D-SOUTH
Design	Elevation	D-WEST
Design	Floor Plan	D00-B1 LEVEL
Design	Floor Plan	D00-BS ZONING
Design	Floor Plan	D00-ST LEVEL
Design	Floor Plan	D00-ST ZONING
Design	Floor Plan	D01-LS LEVEL
Design	Floor Plan	D01-LS ZONING
Design	Floor Plan	D02-GF LEVEL
Design	Floor Plan	D02-GF ZONING
Design	Floor Plan	D03-1ST LEVEL
Design	Floor Plan	D03-1ST ZONING
Design	Floor Plan	D04-2ND LEVEL
Design	Floor Plan	D04-2ND ZONING
Design	Floor Plan	D05-TOS LEVEL
Design	Floor Plan	D-SITE
Production	3D View	P-3D
Production	Ceiling Plan	P00-B1 LEVEL
Production	Ceiling Plan	P00-ST LEVEL

« Use the View List for adjusting newly created views by assigning the views to its correct type and department.

Note: The View List is just for reference, not for production drawings. »

VIEW LIST		
Project Stage	Family	View Name
Production	Ceiling Plan	P01-LS LEVEL
Production	Ceiling Plan	P02-GF LEVEL
Production	Ceiling Plan	P03-1ST LEVEL
Production	Ceiling Plan	P04-2ND LEVEL
Production	Ceiling Plan	P05-TOS LEVEL
Production	Drafting View	P-COURTYARD & OUTDOOR TERRACE
Production	Drafting View	P-DECOCRATIVE GROOVE DETAIL
Production	Drafting View	P-PLASTERED WALLS EDGE DETAIL
Production	Drafting View	P-ROOF DRAIN FLUSHING DETAIL
Production	Drafting View	P-SERVICE ROOF DECK
Production	Drafting View	P-STAIR NOSING DETAIL
Production	Drafting View	P-WET AREA DETAIL
Production	Elevation	P-EAST

VIEW LIST		
Project Stage	Family	View Name
Production	Elevation	P-NORTH
Production	Elevation	P-SOUTH
Production	Elevation	P-WEST
Production	Floor Plan	P00-B1 LEVEL
Production	Floor Plan	P00-ST LEVEL
Production	Floor Plan	P01-LS LEVEL
Production	Floor Plan	P02-GF LEVEL
Production	Floor Plan	P03-1ST LEVEL
Production	Floor Plan	P04-2ND LEVEL
Production	Floor Plan	P05-TOS LEVEL
Production	Floor Plan	P-SITE
Production	Structural Plan	P00-B1 LEVEL
Production	Structural Plan	P00-ST LEVEL
Production	Structural Plan	P01-LS LEVEL
Production	Structural Plan	P02-GF LEVEL
Production	Structural Plan	P03-1ST LEVEL
Production	Structural Plan	P04-2ND LEVEL
Production	Structural Plan	P05-TOS LEVEL

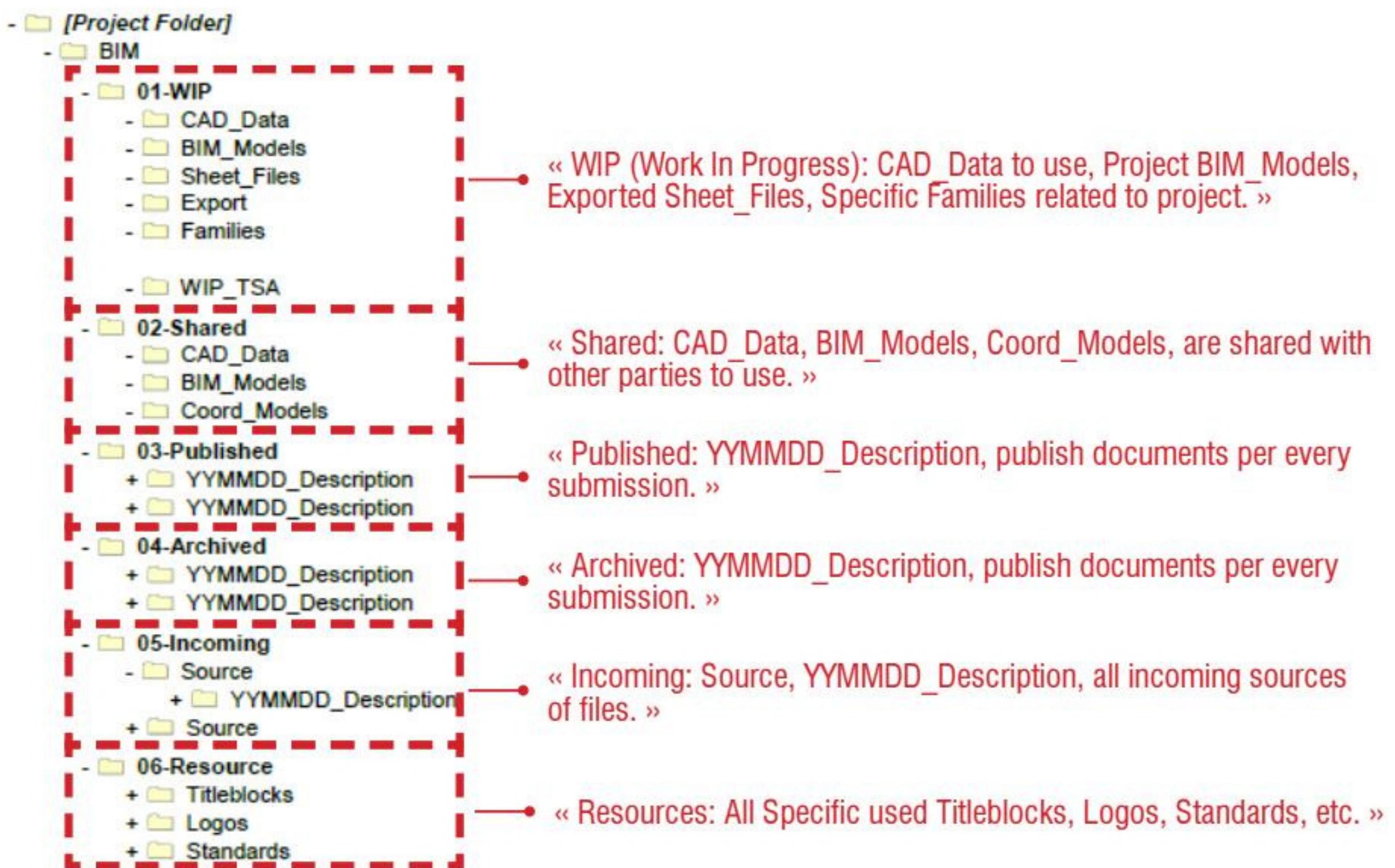
A construction documentation set usually includes a title sheet, also called a cover sheet. A title sheet typically includes a rendering, 3D drawing, or other view of the building model.

LOGO HERE 	1 PROJECT BRIEF <p>AN ARCHITECTURE DESIGN BRIEF AND / OR PROGRAMME IS NO DIFFERENT TO ANY OTHER FORM OF DESIGN BRIEF OR EVEN JUST A BRIEF, AS THEY ALL ESSENTIALLY AIM TO PROVIDE THE RECIPIENT (IN THIS CASE THE ARCHITECT AND / OR STUDENT) WITH A LIST OF INSTRUCTIONS, REQUIREMENTS AND DIRECTIONS TO FULFIL THE AUTHORS NEEDS.</p> PROJECT SCOPE <ul style="list-style-type: none"> 1. ARCHITECTURAL BIM MODEL INCLUDES 2D DRAWINGS, LOD 300 2. STRUCTURAL BIM MODEL: CONCRETE FRAMING, LOD 300 3. STEEL BIM MODEL: SKELETON FRAMING, 4. ELECTRICAL BIM MODEL: HEAVY AND LIGHT CURRENT, LOD 300 5. HVAC BIM MODEL: DUCTING AND PIPING 6. FIRE BIM MODEL: WET SYSTEM, LOD 300 7. PLUMBING BIM MODEL: BATHS AND KITCHENS, LOD 300 	2 PROJECT TEAM MEMBERS <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>ARCHITECTURE TEAM:</th> <th>REP TEAM:</th> </tr> </thead> <tbody> <tr> <td>1. NAME BIM MANAGER</td> <td>1. NAME ROLE</td> </tr> <tr> <td>2. NAME BIM COORDINATOR</td> <td>2. NAME ROLE</td> </tr> <tr> <td>3. NAME BIM ARCHITECT</td> <td>3. NAME ROLE</td> </tr> <tr> <td></td> <td>4. NAME ROLE</td> </tr> <tr> <td></td> <td>5. NAME ROLE</td> </tr> <tr> <td></td> <td>6. NAME ROLE</td> </tr> <tr> <td></td> <td>7. NAME ROLE</td> </tr> </tbody> </table>	ARCHITECTURE TEAM:	REP TEAM:	1. NAME BIM MANAGER	1. NAME ROLE	2. NAME BIM COORDINATOR	2. NAME ROLE	3. NAME BIM ARCHITECT	3. NAME ROLE		4. NAME ROLE		5. NAME ROLE		6. NAME ROLE		7. NAME ROLE	3 PROJECT INDEX <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>SHEET NO.</th> <th>SHEET CONT.</th> </tr> </thead> <tbody> <tr> <td>000.00</td> <td>PROJECT OVERVIEW</td> </tr> <tr> <td>000.01</td> <td>TABLE OF CONTENTS</td> </tr> <tr> <td>000.02</td> <td>INTRODUCTION GENERAL NOTICE</td> </tr> <tr> <td>000.03</td> <td>ABBREVIATIONS</td> </tr> <tr> <td>000.1</td> <td>PROJECT MAP LOCATION</td> </tr> <tr> <td>000.2</td> <td>PROJECT NAME</td> </tr> <tr> <td>000.3</td> <td>GENERAL NOTES</td> </tr> <tr> <td>000.4</td> <td>PROJECT TEAM MEMBERS</td> </tr> <tr> <td>000.5</td> <td>NOTE BLOCK</td> </tr> <tr> <td>000.6</td> <td>APPENDIX</td> </tr> <tr> <td>000.7</td> <td>DISCLAIMER</td> </tr> <tr> <td>000.8</td> <td>PRIVACY STATEMENT</td> </tr> <tr> <td>000.9</td> <td>TERMINAL CONDITIONS</td> </tr> <tr> <td>000.10</td> <td>DISCLAIMER & TERMINAL CONDITIONS</td> </tr> <tr> <td>000.11</td> <td>APPENDIX DETAILS</td> </tr> <tr> <td>000.12</td> <td>DISCLAIMER DETAILS</td> </tr> </tbody> </table>	SHEET NO.	SHEET CONT.	000.00	PROJECT OVERVIEW	000.01	TABLE OF CONTENTS	000.02	INTRODUCTION GENERAL NOTICE	000.03	ABBREVIATIONS	000.1	PROJECT MAP LOCATION	000.2	PROJECT NAME	000.3	GENERAL NOTES	000.4	PROJECT TEAM MEMBERS	000.5	NOTE BLOCK	000.6	APPENDIX	000.7	DISCLAIMER	000.8	PRIVACY STATEMENT	000.9	TERMINAL CONDITIONS	000.10	DISCLAIMER & TERMINAL CONDITIONS	000.11	APPENDIX DETAILS	000.12	DISCLAIMER DETAILS
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5 	PROJECT NAME #26122019 PROJECT ADDRESS: SAUDI ARABIA, JEDDAH PROJECT ISSUE DATE: 28/12/2019 PROJECT STATUS: DETAIL DESIGN CLIENT NAME CLIENT CONTACT: EMAIL: example@hotmail.com PHONE: +966 XXX XXXX XXXX	6 GENERAL NOTES: <p>1. KICKOFF MEETING 2. ANY TEXT IN RED SHOULD BE HIDDEN / DELETED BEFORE SUBMISSION 3. DON'T ADD LAYERS BUT EASY IMPORT. 4. DON'T ADD NEW LAYERS BEFORE CHECKING WITH BIM COORDINATOR 5. DON'T CHANGE LINE WEIGHTS OR LINE STYLES 6. DON'T IMPORT OUTSOURCE REVIT FAMILIES WITHOUT BIM COORDINATOR APPROVAL 7. MAJOR WARNINGS SHOULD BE RESOLVED 8. COMPLY WITH SCOPE & LOD REQUIREMENTS 9. ADJUST PROJECT BASE POINT 10. MAKE SURE TO WORK ON YOUR LOCAL FILE NOT THE CENTRAL 11. DOCUMENT CHANGES HERE FOR THE TEAM TO BE AWARE 12. CONSISTENTLY CHECK HERE 13. IT'S FREE TIME :)</p>	7 NOTE BLOCK <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>VIEW TYPE</th> <th>NOTE NUMBER</th> <th>NOTE TEXT</th> <th>ASSIGNED TO</th> <th>STATUS</th> <th>DATE</th> </tr> </thead> <tbody> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	VIEW TYPE	NOTE NUMBER	NOTE TEXT	ASSIGNED TO	STATUS	DATE																																												
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1. Add the Logo and a 3D prospective, preferably from Revit shots for representing the project scale.
2. Add a Project Brief mentioning the importance of this project, along with the project scope for the team to be aware of the required target.
3. Add the Project Team members information for reaching them for any further inquiries.
4. The Sheet Index is used as a reference for indicating the current progress.
5. Add site location map, with information about the Project Name, Client Name and contact, etc.
6. General Notes are guide lines and they are very important to read before starting the project.
7. Note Block is used for communication purposes and tracking of changes through the project life time.

The following folder structure is provided as an example arrangement, designed to encourage compliancy with the strategies contained within this standard.

PROJECT FOLDER STRUCTURE



« WIP (Work In Progress): CAD_Data to use, Project BIM_Models, Exported Sheet_Files, Specific Families related to project. »

« Shared: CAD_Data, BIM_Models, Coord_Models, are shared with other parties to use. »

« Published: YYMMDD_Description, publish documents per every submission. »

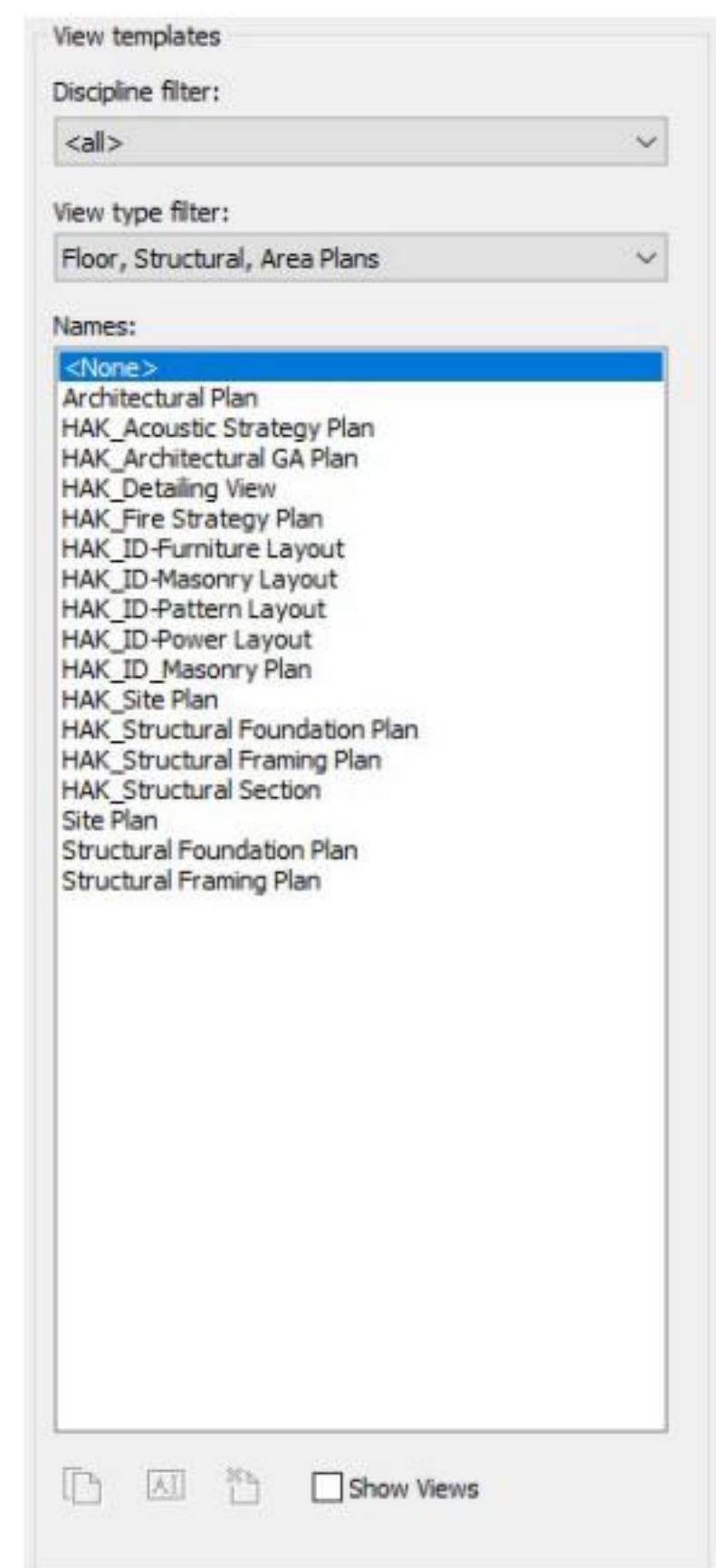
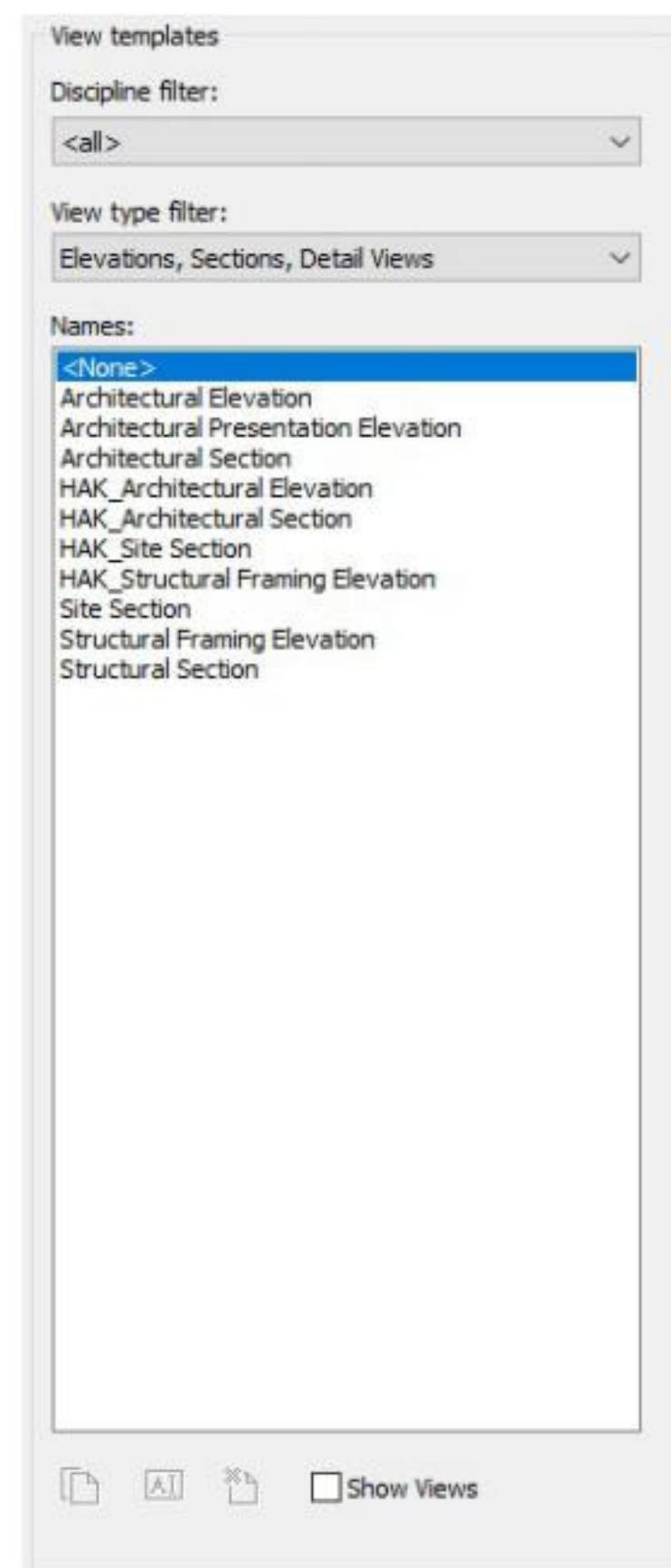
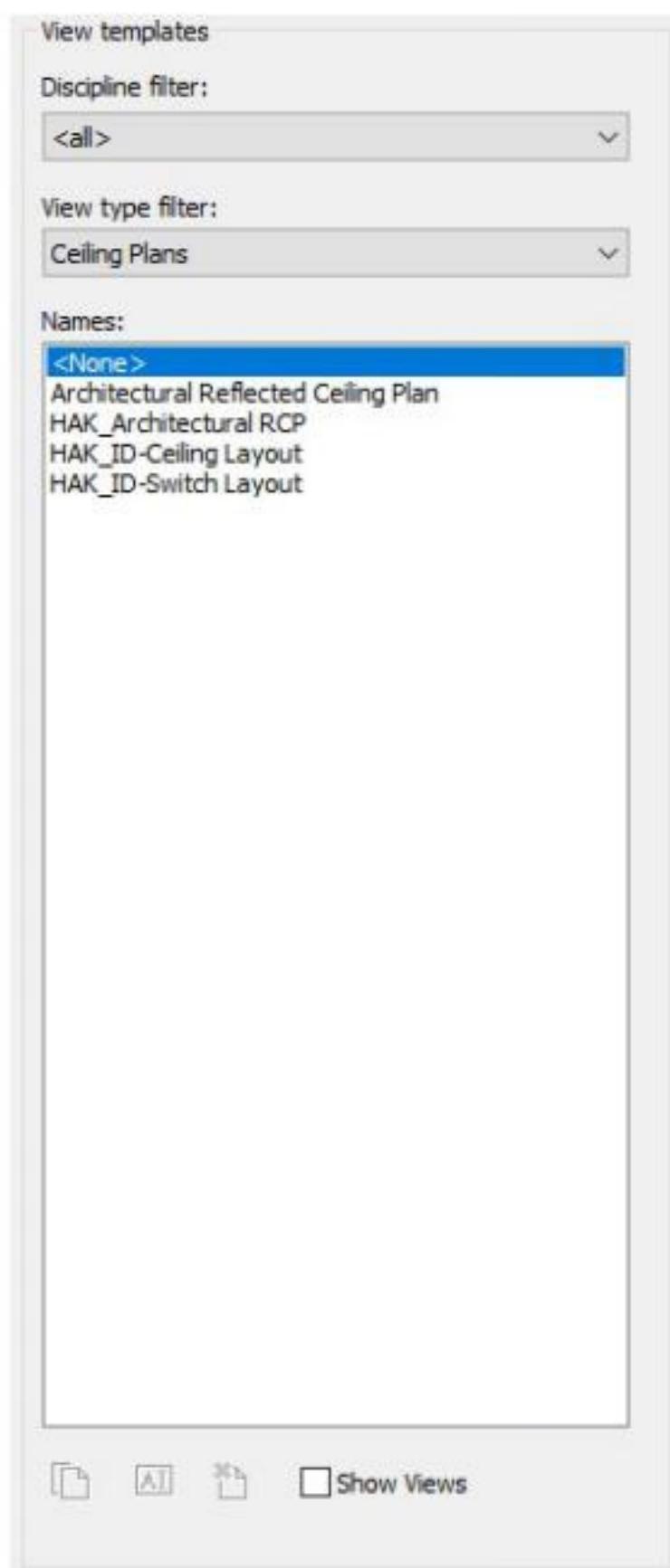
« Archived: YYMMDD_Description, publish documents per every submission. »

« Incoming: Source, YYMMDD_Description, all incoming sources of files. »

« Resources: All Specific used Titleblocks, Logos, Standards, etc. »

Drawing Preset Settings is used as presentation guide for finishing production drawings.

DRAWING PRESET SETTINGS



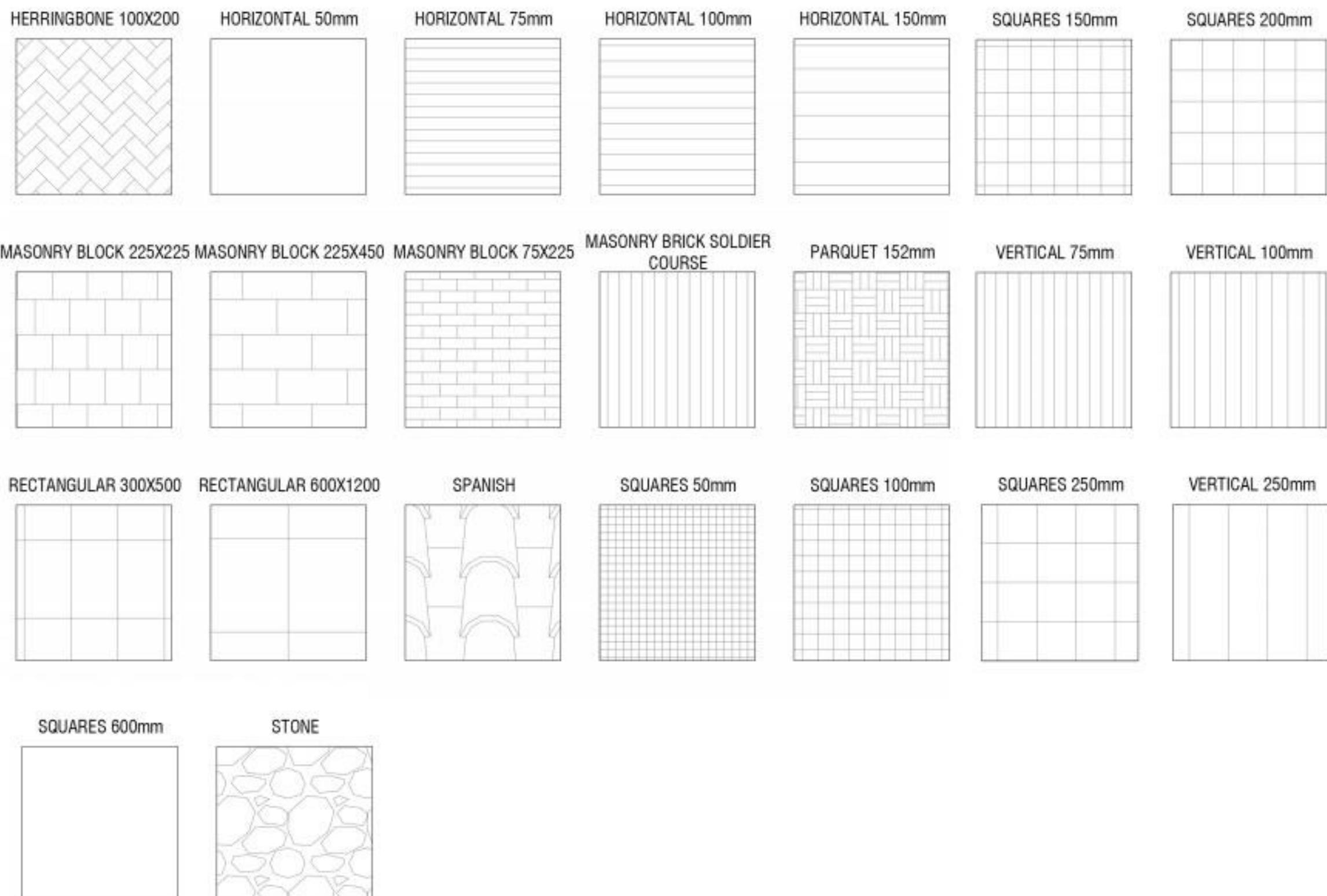
« Use Preset Settings for Ceiling Drawings, Switch Layout, etc from this list. »

« « Use Preset Settings for Elevations, Sections, Detail Views from this list. »

« Use Preset Settings for Plans, Furniture, Masonry, Pattern, Power, etc from this list. »

Fill patterns control the appearance of surfaces that are cut or shown in projection. Use the Fill Patterns tool to create or modify drafting and model patterns.

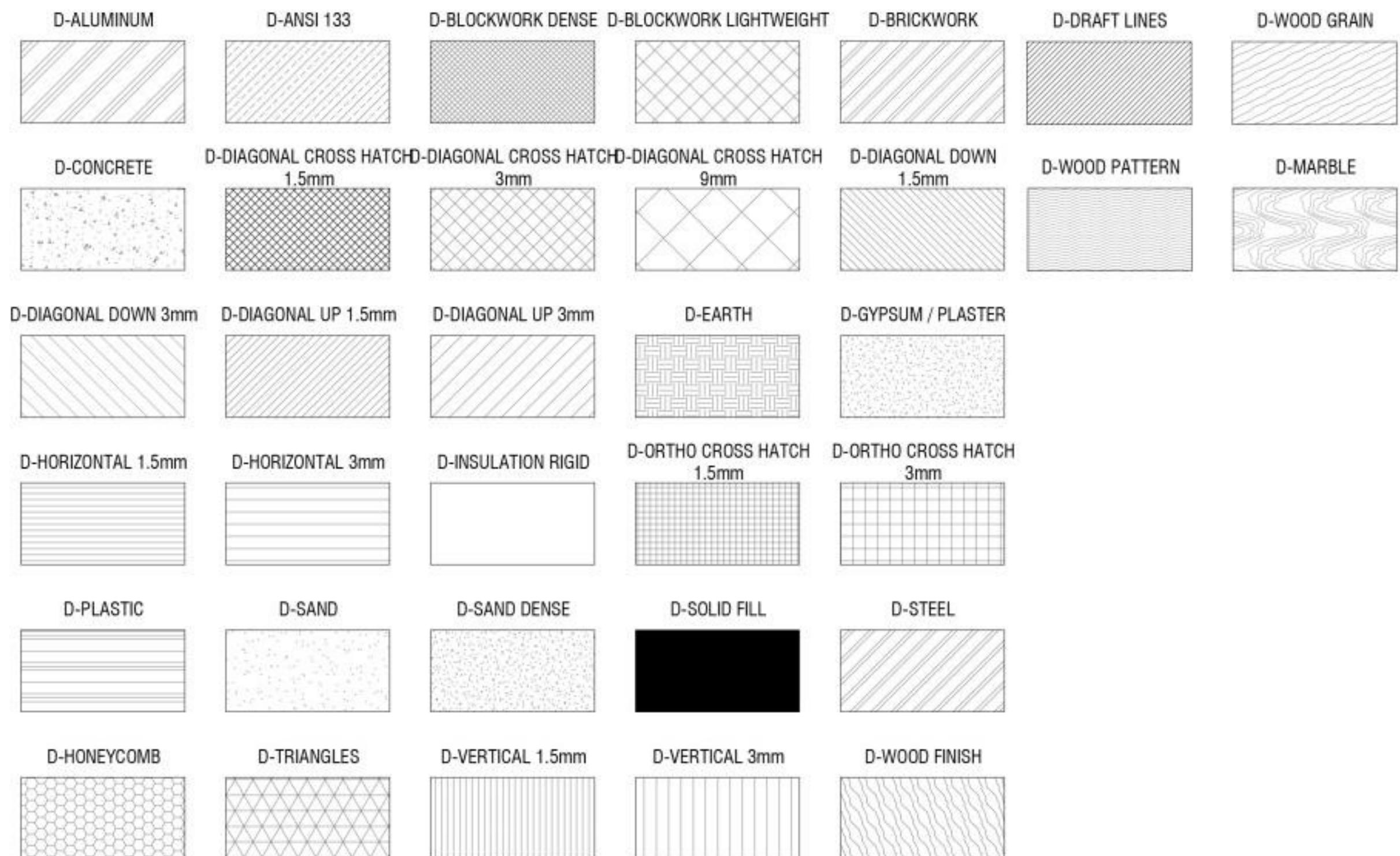
MODEL PATTERN



« Note: Use Model Patterns for assigning surface / projection hatches. »

Fill patterns control the appearance of surfaces that are cut or shown in projection. Use the Fill Patterns tool to create or modify drafting and model patterns.

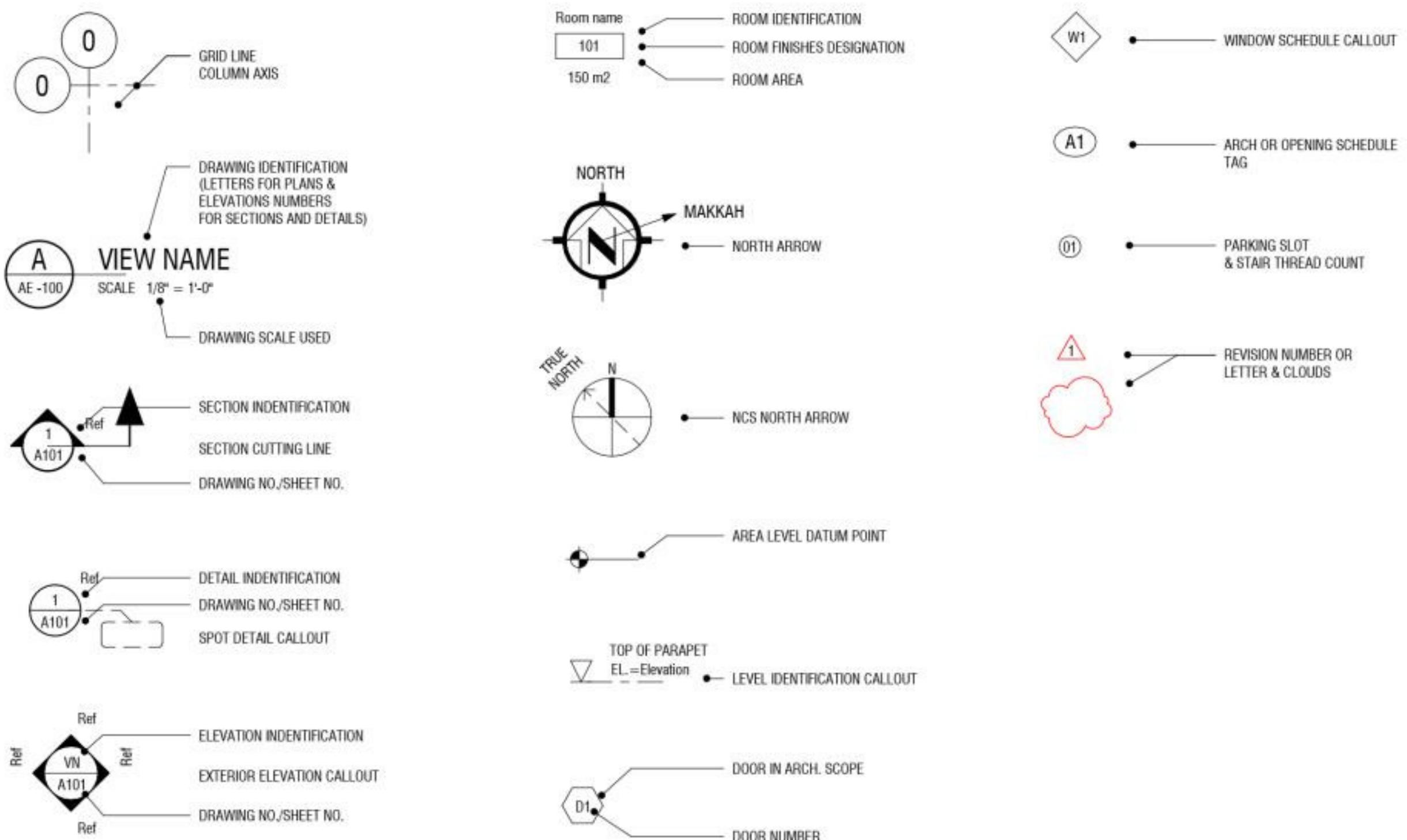
DRAFT PATTERN



« Note: Use Model Patterns for assigning cutting hatches. »

A symbol is a graphic representation of an annotation element or other object.

ARCH SYMBOLS



« All Symbols are created to AIA standards with adjusted Line weights. »

All used Abbreviations in the project

ABBREVIATIONS

A/C	AIR CONDITION	ESCA	ESCALATOR	MAX	MAXIMUM	SHO	SHOWER
ADMIN	ADMINISTRATION	EWC	EASTERN WATER CLOSET	MECH	MECHANICAL	SK	SINK
ACG	ACCGREGATE	EWH	ELECTRIC WATER HEATER	MET	METAL	SQ	SQUARE
ALUM	ALUMINUM	EXP	EXPANSION	MEZZ	MEZZANINE	SS	STAINLESS STEEL
ANOD	ANODIZED	EXP JT	EXPANSION JOINT	MFTR	MANUFACTURER	SSK	SLOP SINK
AR	ARCHITECTURAL	FD	FLOOR DRAIN	MH	MAN HOLE	STD	STANDARD
ARCHT	ARCHITECT	FFL	FINISH FLOOR LEVEL	MID	MIDDLE	STL	STEEL
AFF	ABOVE FINISH FLOOR	FH	FIRE HYDRANT	MIN	MINIMUM	STO	STORAGE
B	BATH	FHC	FIRE HOSE CABINET	MM	MILLIMETER	STRUCT	STRUCTURAL
BD	BIDET	FIN	FINISH	MO	MASONRY OPENING	TB	TOILET BAR
BL	BUILDING LINE	FLR	FLOOR	MR	MIRROR	TD	TRENCH DRAIN
BLDG	BUILDING	FM	FACIAL MIRROR	N	NORTH	THK	THICK OR THICKNESS
BOC	BOTTOM OF CURB	GALS	GALLONS	NGL	NATURAL GRADE LINE	TOC	TOP OF CURB
BOQ	BILL OF QUANTITIES	GALV	GALVANIZED	NO	NUMBER	TO	TOP OF
BOT	BOTTOM	GB	GRAB BAR	NTS	NOT TO SCALE	TPH	TOILET PAPER HOLDER
CAB	CABINET	GEN	GENERAL	OC	ON CENTER	TR	TOWEL RING
CAP	CAPACITY	GFRC	GLASS FIBER REINFORCED CONCRETE	OFC	OFFICE	TYP	TYPICAL
CER	CERAMIC	GLS	GLASS	OPNG	OPENING	T/B	TOILET & BATH
CF	CEILING FINISH	GRC	GLASS REINFORCED CONCRETE	PC	PRECAST	UH	UTILITY HOOK
CH	CEILING HEIGHT	GRD	GRADE OR GROUND	PD	PARKING DRAIN	UL	UNDERWRITER LABORATORIES
CLAV	COUNTER LAVATORY	GYP	GYPSUM	PFE	PORTABLE FIRE EXTINGUISHER	UON	UNLESS OTHERWISE NOTED
CLG	CEILING	HB	HOSE BIBB	PLAS	PLASTER	UR	URINAL
CLO	CLOSET	HT	HEIGHT	PLUMB	PLUMBING	VER	VERIFY
CM	CENTIMETER	HORT	HORIZONTAL	PLYBD	PLYBOARD	VERT	VERTICAL
CMU	CONCRETE MASONRY UNIT	HS	HAND SPRAY	PNL	PANEL	VIP	VERY IMPORTANT PEOPLE
COL	COLUMN	H/S	HARD SCAPE	PR	PAIR	WC	WATER CLOSET
CONC	CONCRETE	HVAC	HEAT VENTILATION & AIR CONDITION	PSI	POUND PER SQ. INCH	WD	WOOD
CONT	CONTINOUS	ID	INTERIOR DESIGN	R	RADIUS	WDO	WINDOW
CR	CURTAIN ROD	IRRIG	IRRIGATION	RC	REINFORCED CONCRETE	WP	WORKING POINT
DET	DETAIL	INT	INTERIOR	RD	ROOF DRAIN	&	AND
DIM	DIMENSION	JAN	JANITOR	REF	REFRIGERATOR	%	PERCENT
DN	DOWN	JT	JOINT	REQD	REQUIRED	Ø	DIAMETER
DR	DOOR	JKS	KITCHEN SINK	REQT	REQUIREMENT	@	AT
DS	DOWN SPOUT	L	LENGTH	RF	ROOF	°	DEGREE
DWG	DRAWING	LAM	LAMINATE	RM	ROOM	#	NUMBER SIGN
E	EAST	LAV	LAVATORY	RMU	RING MAIN UNIT	W/	WITH
EJ	EXPANSION JOINT	LEV	LEVEL	S	SOUTH	€	CENTER LINE
EL	ELEVATION	LVL	LEVEL	SB	SPLASH BLOCK	∠	ANGLE
ELEC	ELECTRICAL	L/S	LANDSCAPE	SECT	SECTION		
ELEV	ELEVATOR	LTG	LIGHTING	SERV	SERVICE		
EQ	EQUAL	M	METER	SD	SHOWER DRAIN		
EQUIP	EQUIPMENT	MACH	MACHINE	SDWK	SIDEWALK		
		MAG	MAGNETIC	SH	SOAP HOLDER		

« All Abbreviations are referenced to AIA standards. »

Door Schedule & Window Schedule Notes

DOOR SCHEDULE

1. ALL DIMENSIONS STATED HEREIN ARE SUBJECT FOR ON-SITE VERIFICATION, CONTRACTORS AND SUPPLIER MUST CONDUCT ACTUAL INSPECTION TO CHECK MEASUREMENTS AT THE DOORS RESPECTIVE LOCATIONS FOR CONFIRMATION PRIOR TO PREPARATION OF SHOP DRAWINGS AND FABRICATION.
2. CONTRACTORS ARE ADVISED TO COORDINATE WITH THE APPROVED MANUFACTURER FOR RECOMMENDED ACCESSORIES (WEATHER STRIPPING AND/OR GAP SEALING MATERIALS, THRESHOLD, PUSH PLATE & KICK PLATES AND FLOOR-MOUNTED DOOR STOPS), DOOR CLOSER, ALL REQUIRED HARDWARE FITTINGS, LOCK-SETS, COATING TYPES & COLOR SELECTIONS AND TO PROVIDE SHOP DRAWINGS, CATALOGS AND MATERIAL SAMPLES OR MOCK-UP ALONG WITH COLOR SAMPLES FOR ARCHITECT/I.D. REVIEW AND CLIENT'S APPROVAL.
3. CONTRACTORS IS RESPONSIBLE TO COORDINATE AND CONFIRM WITH ARCHITECT/I.D. FINAL DRAWINGS FOR ANY MODIFICATION ON SPECIFICATIONS ON ALL DOOR PANELS, ACCESSORIES AND LOCK-SETS, COLOR COATING FINISHES PRIOR TO FABRICATION OR INSTALLATION.
4. VERIFY MANUFACTURER FOR ALLOWABLE MINIMUM GAP CLEARANCE UNDER THRESHOLD OR FLOOR FINISH LEVEL FOR SWING TYPE DOOR STOCKS AND UNLESS OTHERWISE NOTED, CONTRACTOR ARE RESPONSIBLE TO SUPPLY/APPLIED WITH MANUFACTURER RECOMMENDED WEATHER-STRIPPING AND GAP SEALING MATERIALS.
5. ALL ELECTRICALLY SUPPLIED MOTORS AND MECHANISM SHOULD BE COORDINATED WITH ARCHITECT FOR ITS PROPER MOUNTING LOCATION AND THE ELECTRICAL ENGINEER TO PROVIDE POWER SUPPLY IN ORDER NOT TO EXPOSE CABLES AND EQUIPMENTS
6. ALL FIRE DOOR PANELS, HARDWARES, DOOR FRAMES AND ACCESSORIES SHOULD COMPLY WITH STANDARD FIRE PROTECTION SYSTEM AND MUST ADHERE/COMPLY TO THE KINGDOM'S CIVIL DEFENSE STANDARDS AND REQUIREMENTS AND NFPA CODES.
7. MANUFACTURER TO COORDINATE WITH DESIGNER, CLIENT PRIOR TO REQUIREMENTS OF PRODUCING MASTER KEYS AND ASSIGNED LOCATIONS, IF REQUIRED
8. THE HARDWARE SCHEDULE SHOWN ON THE DESIGN DRAWING ARE ALL INDICATIVE AND SUBJECT FOR FURTHER DEVELOPMENT DEPENDING ON THE DESIGNERS AND CLIENTS REQUIREMENTS THAT SHALL BE DECIDED IN THE LATER STAGE. CONTRACTOR TO COORDINATE AND CONFIRM FURTHER REQUIREMENTS
9. ALL EXIT PANIC DEVICES WITH HORIZONTAL PUSH BARS WHERE SPECIFIED, SHALL BE PROVIDED IN THE DIRECTION OF EGRESS

« Door Schedule Notes to be used in GEN Drawings. »

WINDOW SCHEDULE

1. ALL DIMENSIONS STATED HEREIN ARE SUBJECT FOR ON-SITE VERIFICATION, CONTRACTORS/SUPPLIER MUST CONDUCT SITE INSPECTION TO CHECK MEASUREMENTS OF ALL WINDOW OR LOUVER GRILLE FINISH OPENINGS AND TO CHECK IT'S RESPECTIVE LOCATIONS FOR CONFIRMATION PRIOR TO PREPARATION OF SHOP DRAWINGS AND FABRICATION.
2. CONTRACTORS TO COORDINATE WITH DESIGN CONSULTANTS RECOMMENDATION AND CLIENT APPROVAL FOR GLASS & ALUMINUM PRODUCTS MANUFACTURERS AND MUST ADHERE TO THEIR STANDARD INSTALLATION METHODOLOGIES IN CONFORMANCE TO THE TECHNICAL SPECIFICATIONS AND INTERNATIONAL AND LOCAL CODES.
3. CONTRACTORS SHOULD ARRANGE WITH MANUFACTURER TO SUBMIT SHOP DRAWINGS, COLOR & MATERIAL SAMPLES AND CATALOGS ALONG WITH TECHNICAL DATA SHEETS STATING MATERIAL PROPERTIES AND ASSEMBLE MOCK-UP SAMPLE ON SITE FOR ARCHITECT REVIEW AND CLIENT'S APPROVAL PRIOR TO COMPLETE INSTALLATIONS.
4. ALL GLAZING CONNECTIONS SHOULD BE PROPERLY APPLIED WITH WEATHER-STRIP OR WEATHER-PROOF GASKETS AND SEALANTS TO AVOID LEAKAGE AND DUST PENETRATION.
5. ALL GLAZING PANELS, ALUMINUM MULLIONS, CONNECTION ACCESSORIES & SEALANTS MUST CONFORMED TO ALL EXISTING INTERNATIONAL AND SAUDI ARABIAN BUILDING MATERIAL STANDARDS.

« Window Schedule Notes to be used in GEN Drawings. »

Architectural Notes, Finish Schedule Notes, Lintel Schedule Notes

ARCHITECTURAL NOTES

1. UNLESS OTHERWISE NOTED, ALL DIMENSIONS ARE IN MILLIMETERS (mm) AND ELEVATION LEVELS ARE IN METERS (m).
2. ASSUME GROUND FLOOR LEVEL AS EL. 0.00M. EXISTING ROAD AND ACTUAL GRADE LEVELS OF ALL WALKWAYS, SIDEWALK AND GREEN AREAS SHALL BE VERIFIED IN THE SITE BY THE CONTRACTOR AND SUBMIT SHOP DRAWINGS FOR ARCHITECT'S APPROVAL.
3. PRIOR TO WORK COMMENCEMENT, CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS ON SITE & SECURE NECESSARY PERMITS FOR CONSTRUCTION.
4. UNLESS OTHERWISE NOTED ALL DOORS, WINDOWS, & ARCHES OPENINGS SHOWN ON THE PLANS ARE FINISH OPENING. SEE DRAWING NUMBER AE-801 TO AE-804 FOR WALL OPENING SCHEDULES
5. VERIFY ALL SIZES AND DIMENSIONS OF DOORS, WINDOWS, LINTEL AND ARCHES OPENINGS ON THE JOB SITE AND SUBMIT SHOP DRAWINGS PRIOR TO FABRICATION AND ON-SITE INSTALLATION.
6. UNLESS OTHERWISE INDICATED ALL INTERNAL/EXTERNAL WALLS SHALL BE CONCRETE MASONRY UNITS (CMU) BLOCKS, THE EXTERNAL WALL ENVELOP SHALL BE MAINLY A 300MM THICK INSULATED CMU BLOCKS.
7. COORDINATION BETWEEN ARCHITECTURAL AND ALL OTHER ENGINEERING DESIGN DRAWINGS SHALL BE THE CONTRACTOR'S RESPONSIBILITY PRIOR TO ANY WORK EXECUTIONS.
8. CONTRACTOR TO SUBMIT SHOP DRAWINGS WITH SAMPLES AND CATALOGS OF ALL MATERIALS AND COLORS FOR CLIENT'S APPROVAL.
9. LOCATIONS OF PADS AND ROOF PENETRATIONS SUCH AS PIPE SLEEVES AND MECHANICAL DUCT-WORKS SHOWN IN THE PLANS MUST BE COORDINATED WITH STRUCTURAL, HVAC, PLUMBING, AND ELECTRICAL DRAWINGS.
10. REFER TO TECHNICAL SPECIFICATIONS FOR HARDWARES/ ACCESSORIES FOR COMPLETE DESCRIPTION OF ALL MATERIALS TO BE USE. UNLESS OTHERWISE INDICATED, CONTRACTOR TO SUBMIT PRODUCT MANUF. SPECIFICATIONS, CATALOGS AND SAMPLES FOR REVIEW AND APPROVAL.
11. ALL TOILETS, BATHS AND KITCHEN AREAS TO BE PROVIDED WITH WATERPROOFING MEMBRANE LAID ON TOP OF SLAB AND MUST BE EXTENDED TO 200MM HIGH ON WALL ABOVE FINISH FLOOR LEVEL.
12. DETAIL ILLUSTRATIONS SHOWN ARE THE DESIGN CONSULTANTS INTENTS, CONTRACTOR TO SUBMIT SHOP DRAWINGS FOR CONSULTANTS REVIEW AND COMMENTS AND RECOMMENDATION AND FOR CLIENT'S APPROVAL.
13. REFER TO CONSULTING ARCHITECT FOR THE FINAL SELECTION OF TYPES, DESIGN AND FINISHES FOR ALL EXTERNAL FAÇADE ACCENTS AND ELEMENTS. CONTRACTOR TO PROVIDE SAMPLES, CATALOGUE WITH SHOP DRAWINGS, SHOWING THE UNITS ELEVATION, SECTION, WITH DIMENSION AND FINISHES FOR ARCHITECT'S APPROVAL.
14. REFER TO THE CONSULTING ARCHITECT'S FOR THE FINAL SELECTION OF DESIGN, TYPES, COLORS, TEXTURE AND FINISHES OF ALL EXTERNAL FLOOR FINISHES, STONE BASE CLADDING, STONE COPING, AND ACCENTS. CONTRACTOR TO PROVIDE SAMPLES, CATALOGUE WITH SHOP DRAWING FOR ARCHITECT'S APPROVAL.

FINISH SCHEDULE NOTE

1. UNLESS OTHERWISE NOTED, ALL WALL TILING IN AREAS WITH SUSPENDED CEILING SHALL BE TERMINATED AT 150MM (MIN.) ABOVE THE SUSPENDED CEILING.
2. UNLESS OTHERWISE NOTED, ALL AREAS WITH SUSPENDED CEILING SHALL NOT HAVE PLASTER FINISH TO SLAB SOFT AND THE WALL CEMENT PLASTER SHALL BE ONLY EXTENDED UP TO 200MM FROM FINISH CEILING LINE.

LINTEL SCHEDULE NOTE

1. ALL DIMENSIONS STATED HEREIN ARE SUBJECT FOR ON-SITE VERIFICATION, CONTRACTORS AND SUPPLIER MUST CONDUCT ACTUAL INSPECTION TO CHECK MEASUREMENTS AT ALL LINTEL OPENINGS CORRESPONDING WITH ITS DESIGNED LOCATIONS, VERIFY FINAL I.D. DRAWINGS AND ARCHITECT FOR FINISHING SPECIFICATIONS.

Below are some essential abbreviated list of commands that can be used in Revit.

EDIT MENU

AL align
AR array
CO/CC copy
CS create similar
DE delete
DM mirror - draw axis
MM mirror - pick axis
MV move
OF offset
PN pin
RE scale
RO rotate
SL split element
TR trim/extend to corner
UP Unpin

VIEW MENU

ZR zoom in region
ZO zoom out (2x)
ZF zoom to fit
ZE zoom to fit
ZA zoom all to fit
ZS sheet size
ZP previous scroll/zoom

F8 dynamic view dbox
F5 refresh

MORE VIEW MENU

VP View Properties
VG Visibility graphics
VH category invisible
Vi Other categories invisible
HH Hide object
HI isolate object
HC hide category
IC isolate category
HR reset temp hide/isolate

TOOLS MENU

LW linework
PT paint
SF split face
AL align
SL split walls and lines
TR trim/extend
OF offset
F7 spelling
MA match

FILE MENU

ER File-Editing Requests
RL File-Reload Latest
RW File-Reload Latest

ALTERNATES

ZZ zoom in region
ZX zoom to fit
ZC previous scroll/zoom
ZV zoom out (2x)
VV visibility/graphics
CC copy

SHADE / WIREFRAME

WF wireframe
HL hidden line
SD shade mode
AG advanced model graphic

other
TL thin lines
RR rendering raytrace

SNAPS

PC snap to point clouds
SC centres
SE endpoints
SI intersections
SM midpoints
SN nearest
SO snap off
SP perpendicular
SQ quadrants
SR snap to remote objects
ST tangents
SW work plane grid
SX points
SZ close

Below are some essential abbreviated list of commands that can be used in Revit.

ARCHITECTURE | Build

WA wall
DR door
WN window
CM place a component
CL column

ARCHITECTURE | Model

GP create group
LI model line

ARCHITECTURE | Room & Area

RM room
RT tag room

ARCHITECTURE | Datum

LL level
GR grid

ARCHITECTURE | Work Plane

RP reference plane

ARCHITECTURE | Dimension

DI aligned dimension
EL spolt elevation

ANNOTATE | Detail

DL detail line

ANNOTATE | Text

TX text
FR Find/Replace

ANNOTATE | Tag

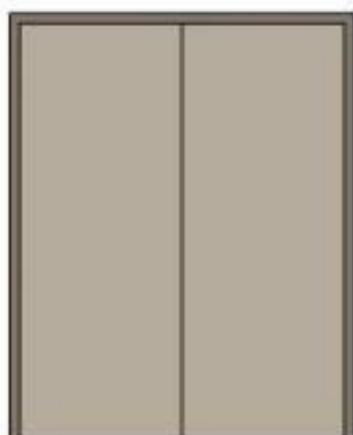
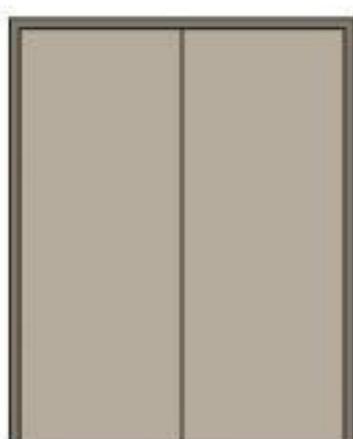
TG tag by category

CALLABORATE | Synchronize

RL/RW reload latest
ER editing requests

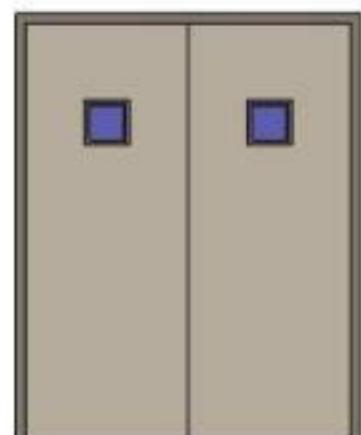
Applies a detail level setting to the view scale: coarse, medium, or fine. This setting overrides the automatic detail level setting for the view. When you apply a detail level to a view, you enable the visibility of certain types of geometry.

COARSE



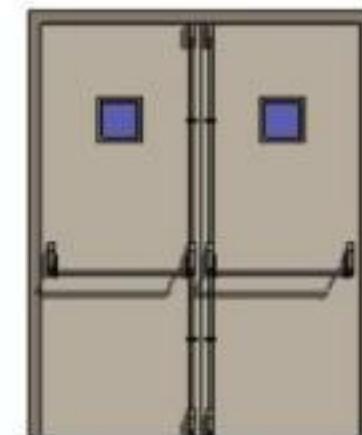
« Coarse Detail Level
is used for Design
Presentation Drawings. »

MEDIUM



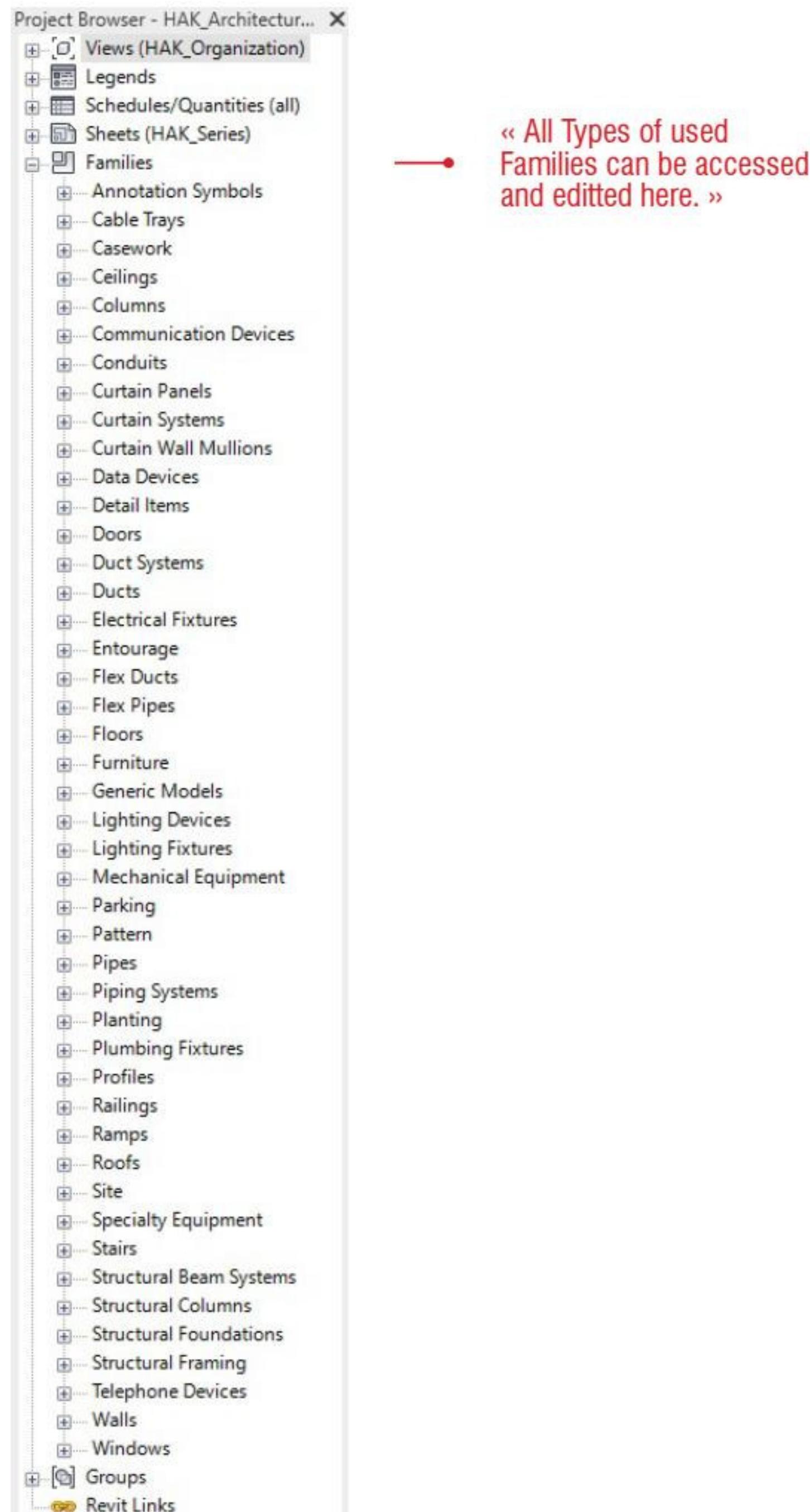
« Medium Detail
Level is used
for Schematic
Drawings. »

FINE



« Fine Detail Level is
used for Detailed Design
Drawings. »

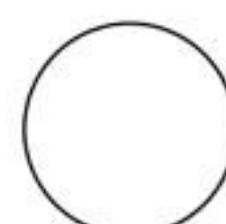
All Families Loaded in the Template



All Types of Parametric Families with AIA standards.

COLOUM LEGEND

ARCHITECTURAL COLUMN
LEGEND

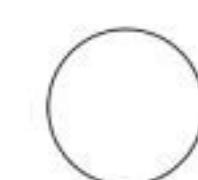


SQUARE COLUMN
ARCHITECTURE

ROUNDED COLUMN
ARCHITECTURE

CLADDDED COLUMN
ARCHITECTURE

STRUCTURAL COLUMN
LEGEND



SQUARE COLUMN
STRUCTURE

ROUNDED COLUMN
STRUCTURE

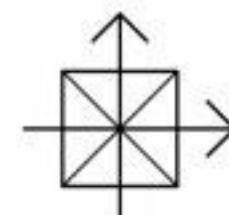
RECTANGULAR COLUMN
STRUCTURE

« Do not Load any outsourced Column family without approval of BIM Manager / BIM Coordinator. »

FLOOR PATTERN | Notes & Legend



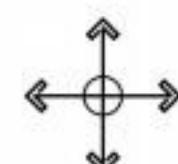
FLOOR PATTERN TAG
300 X 300MM PORCELAIN
TILES ON MATT FINISH



TILE PATTERN
STARTING POINT



CUT TO SIZE (STAIRCASE)



FLOOR TILE
STARTING POINT



80MM HIGH PORCELAIN TILES
WALL SKIRTING FINISH

« Do not Load any outsourced Annotation family without approval of BIM Manager / BIM Coordinator. »

All Types of Parametric Families with AIA standards.

DRAFTING DETAILS

WOOD BLOCK



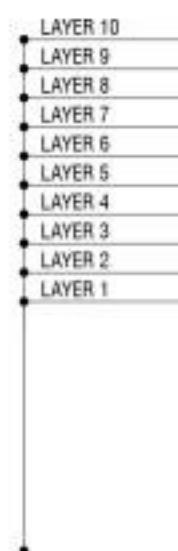
PLUMBING PIPE
SECTION DETAIL



SCREW



MATERIAL LAYERS
SECTION TAG



CENTER LINE SYMBOL



WATERPROOF MEMBRANE
ROOF SECTION DETAIL



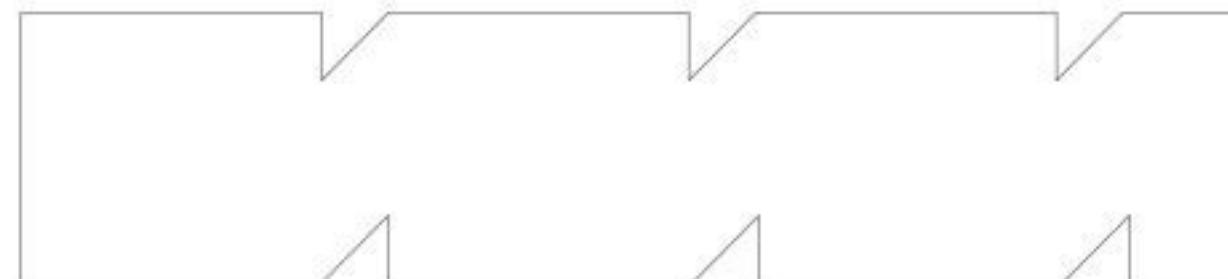
CEILING FINISH LEVEL



WATERPROOF MEMBRANE
TOILET SECTION DETAIL



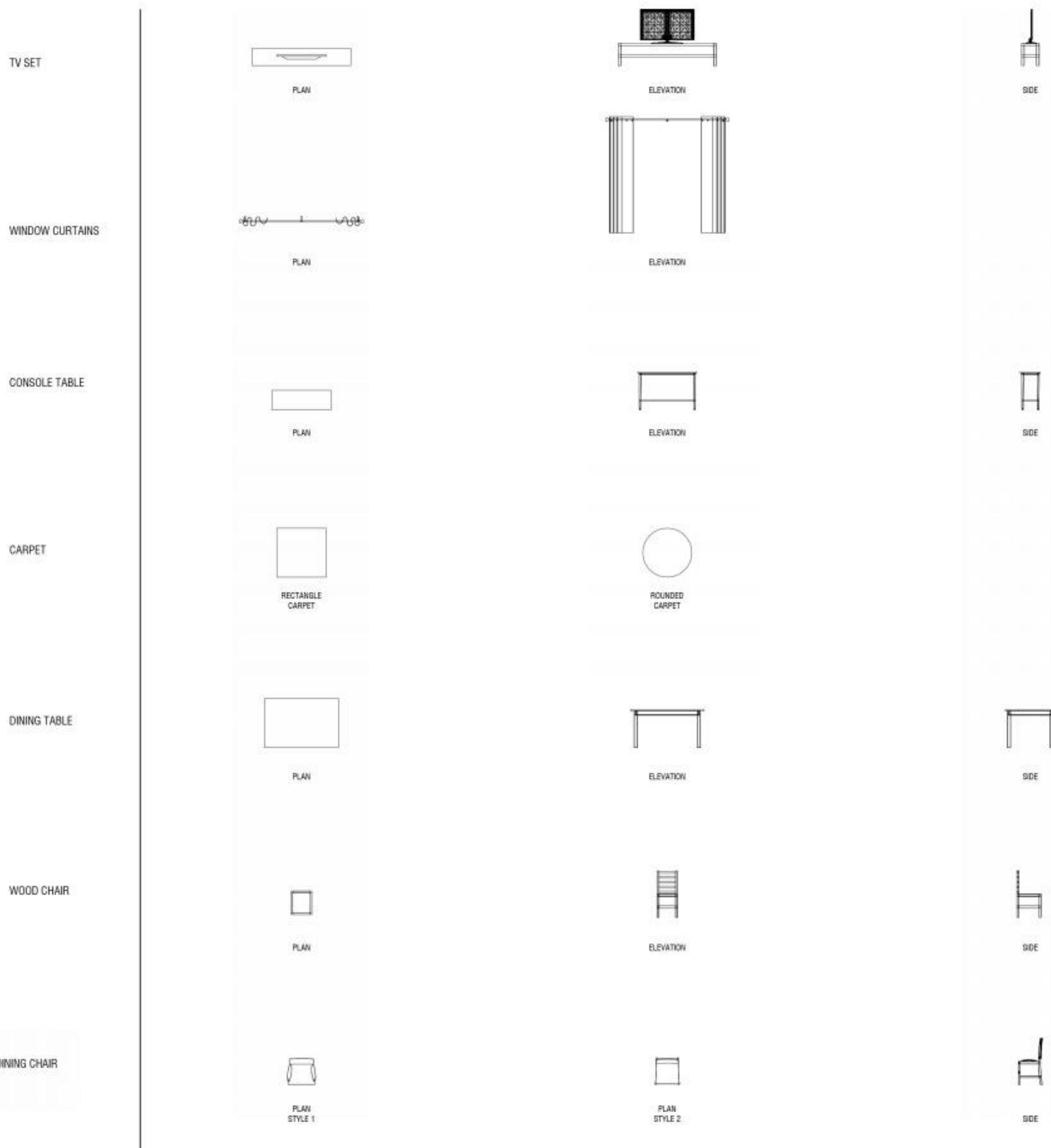
GREEN DETAIL
PLAN



« Do not Load any outsourced Annotation family without approval of BIM Manager / BIM Coordinator. »

All Types of Parametric Families with AIA standards.

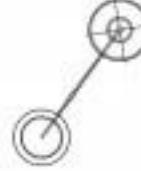
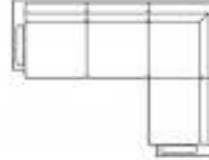
FURNITURE LEGEND



« Do not Load any outsourced Furniture family without approval of BIM Manager / BIM Coordinator. »

All Types of Parametric Families with AIA standards.

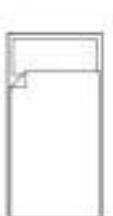
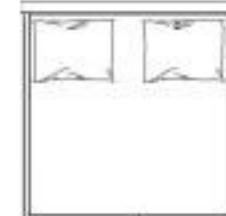
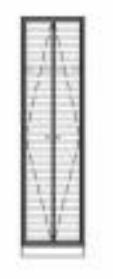
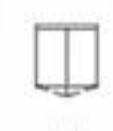
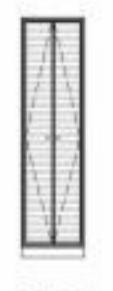
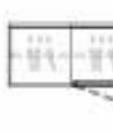
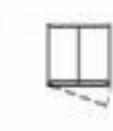
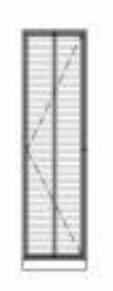
FURNITURE LEGEND

COFFEE TABLE		PLAN		ELEVATION
STANDING FLOOR LAMP		PLAN STYLE 1		PLAN STYLE 2
PUFF SOFA		PLAN		
L SHAPE SOFA		PLAN		
ROUNDED TABLE		PLAN		ELEVATION
SIDE TABLE		PLAN		ELEVATION
WALL HANGED BENCH		PLAN		ELEVATION

« Do not Load any outsourced Furniture family without approval of BIM Manager / BIM Coordinator. »

All Types of Parametric Families with AIA standards.

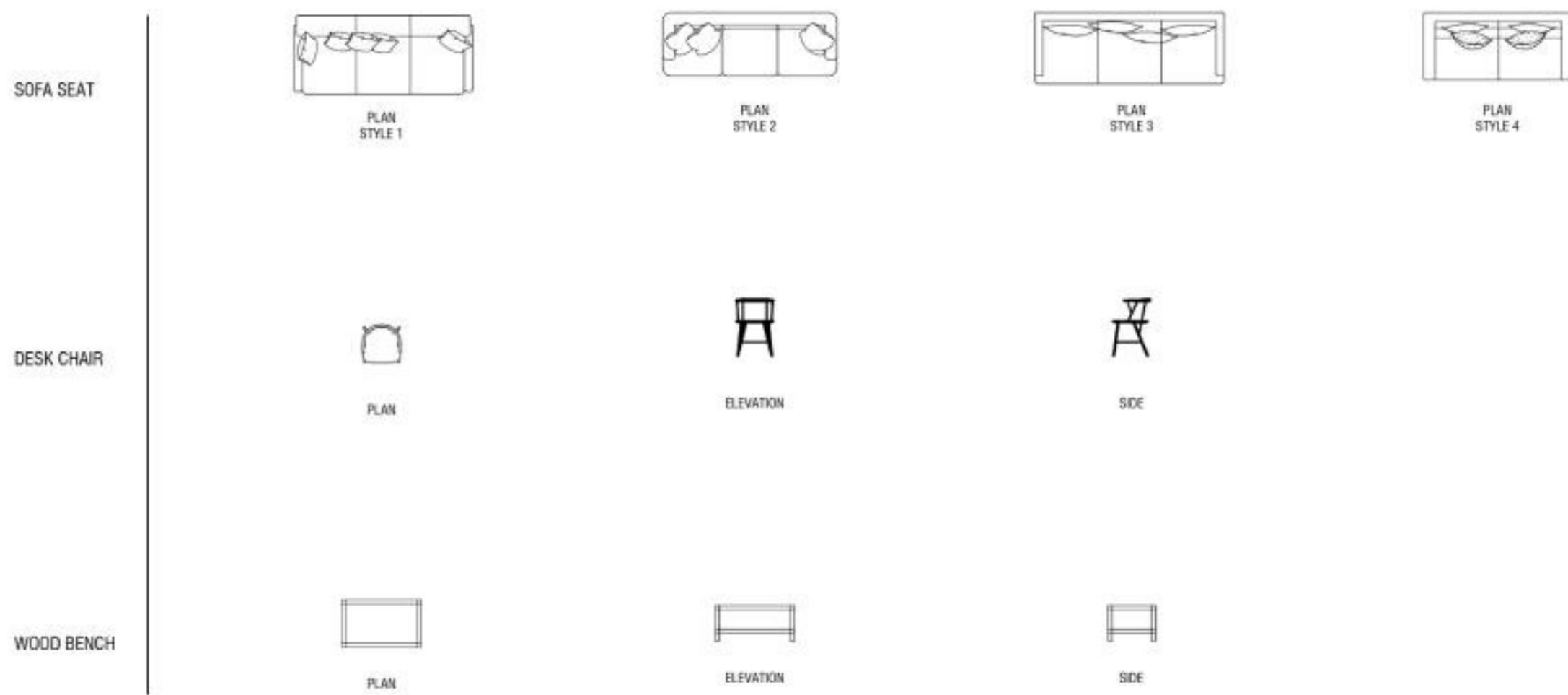
FURNITURE LEGEND

BED	 PLAN SINGLE BED	 PLAN DRIVER BED	 PLAN DOUBLE BED
SINGLE CLOSET WITH HANGER	 PLAN	 ELEVATION	 SIDE
SINGLE CLOSET WITH MIDDLE SUPPORT	 PLAN	 ELEVATION	 SIDE
HALF CLOSET WITH EXTENSION	 PLAN	 ELEVATION	 SIDE
HALF CLOSET WITH HANGER	 PLAN	 ELEVATION	 SIDE
HALF CLOSET WITH MIDDLE SUPPORT	 PLAN	 ELEVATION	 SIDE
METAL LOCKER	 PLAN	 ELEVATION	

« Do not Load any outsourced Furniture family without approval of BIM Manager / BIM Coordinator. »

All Types of Parametric Families with AIA standards.

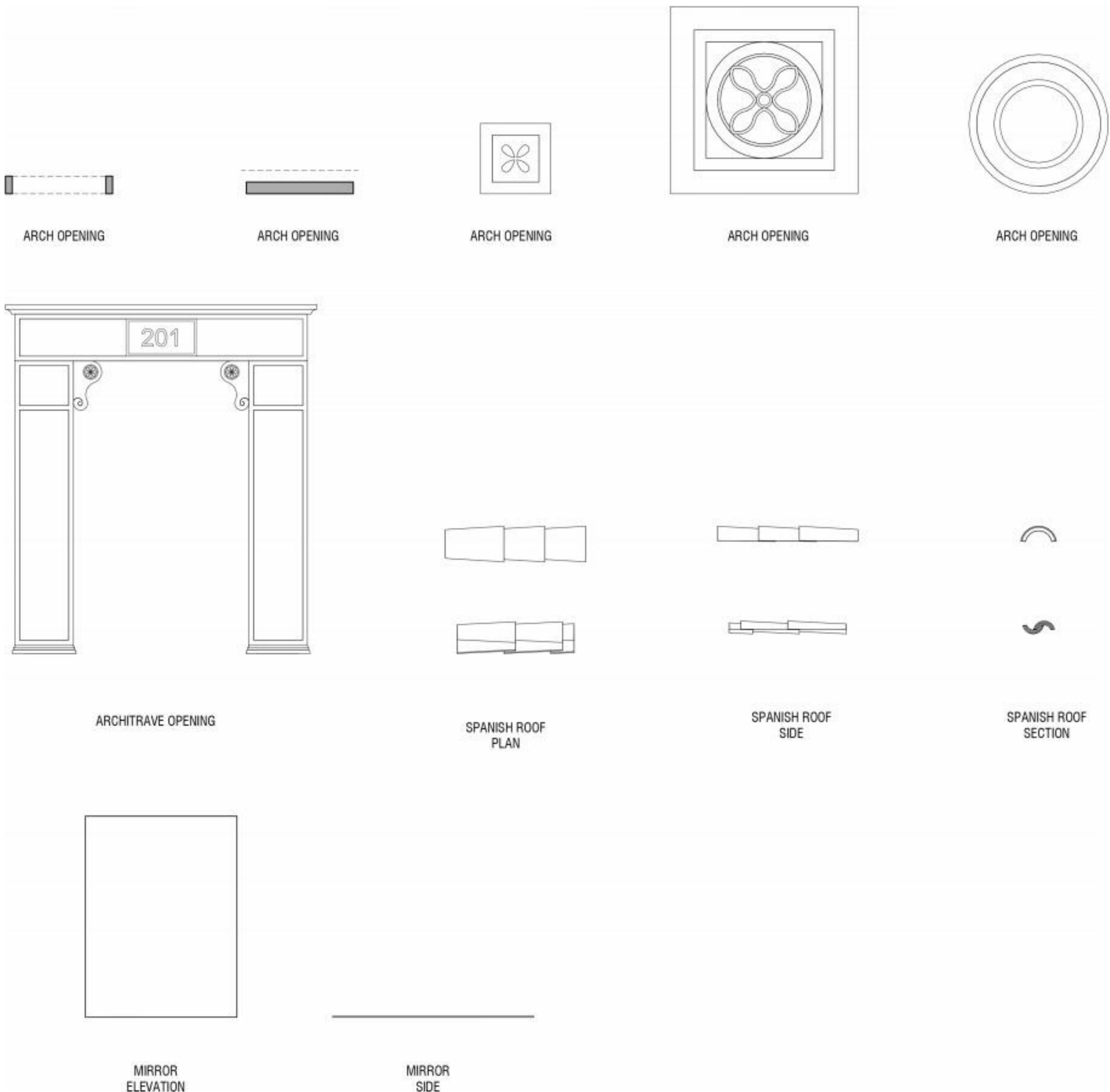
FURNITURE LEGEND



« Do not Load any outsourced Furniture family without approval of BIM Manager / BIM Coordinator. »

All Types of Parametric Families with AIA standards.

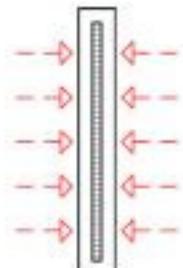
GENERIC MODEL LEGEND



« Do not Load any outsourced Generic family without approval of BIM Manager / BIM Coordinator. »

All Types of Parametric Families with AIA standards.

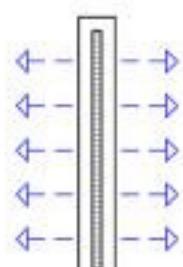
HVAC GRILLS | Notes & Legends



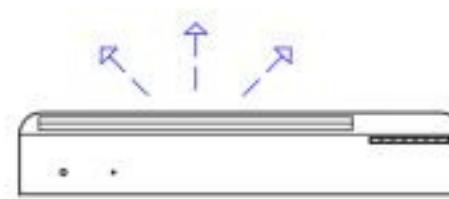
RETURN CEILING GRILL



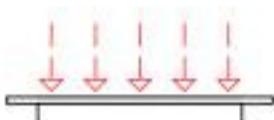
SUPPLY WALL MOUNTED GRILL



SUPPLY CEILING GRILL



AC AIR CONDITIONER
WALL MOUNTED



RETURN WALL MOUNTED GRILL



CEILING EXHAUST GRILL

« Do not Load any outsourced Mechanical family without approval of BIM Manager / BIM Coordinator. »

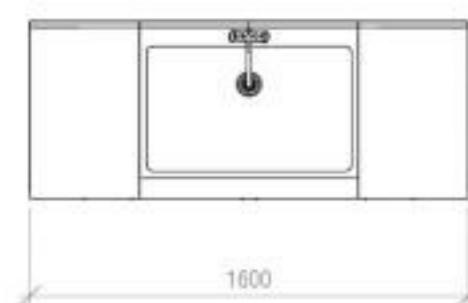
All Types of Parametric Families with AIA standards.

KITCHEN SET LEGENDS

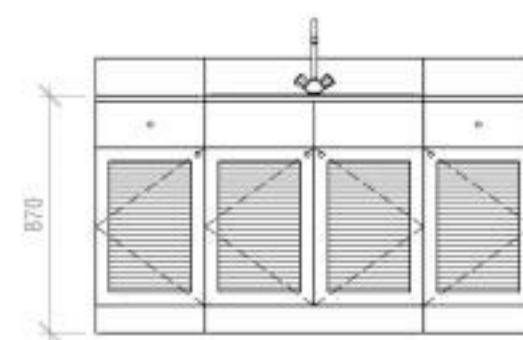
CABINET TYPE

KITCHEN SINK CABINET

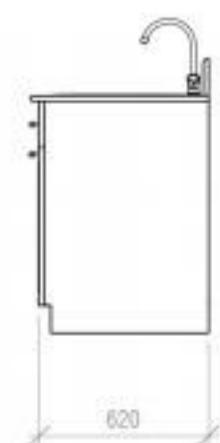
PLAN



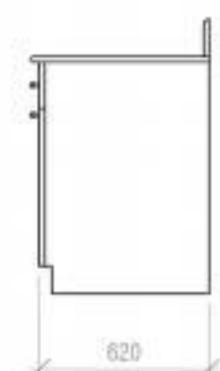
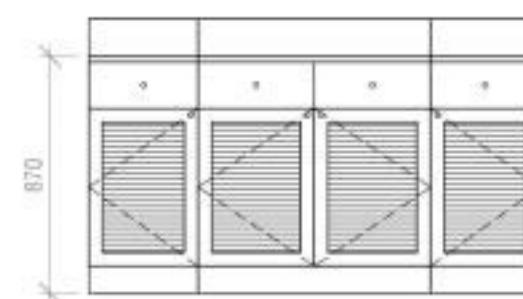
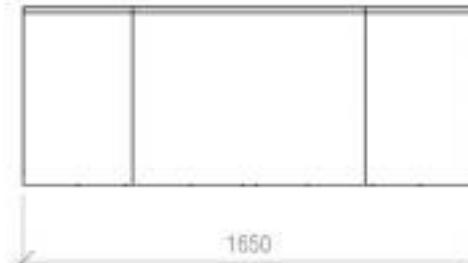
ELEVATION



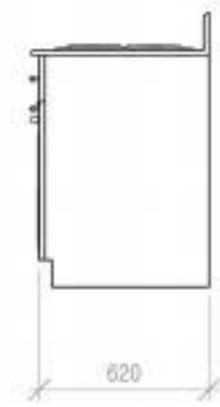
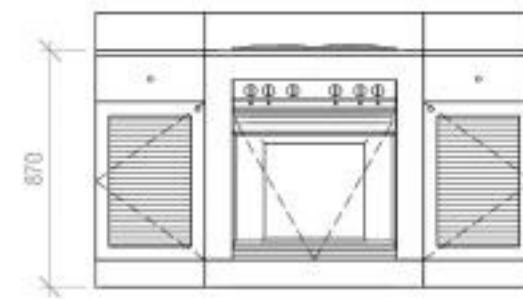
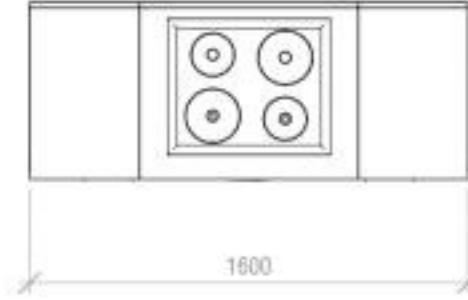
SIDE



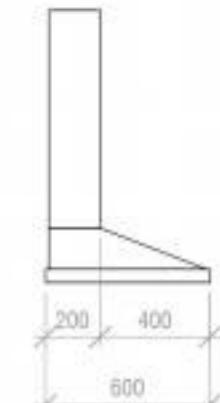
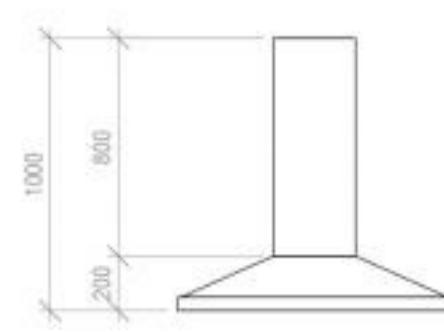
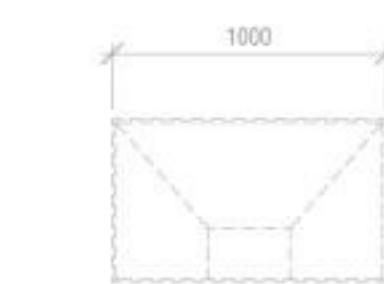
KITCHEN SINGLE CABINET



KITCHEN STOVE CABINET



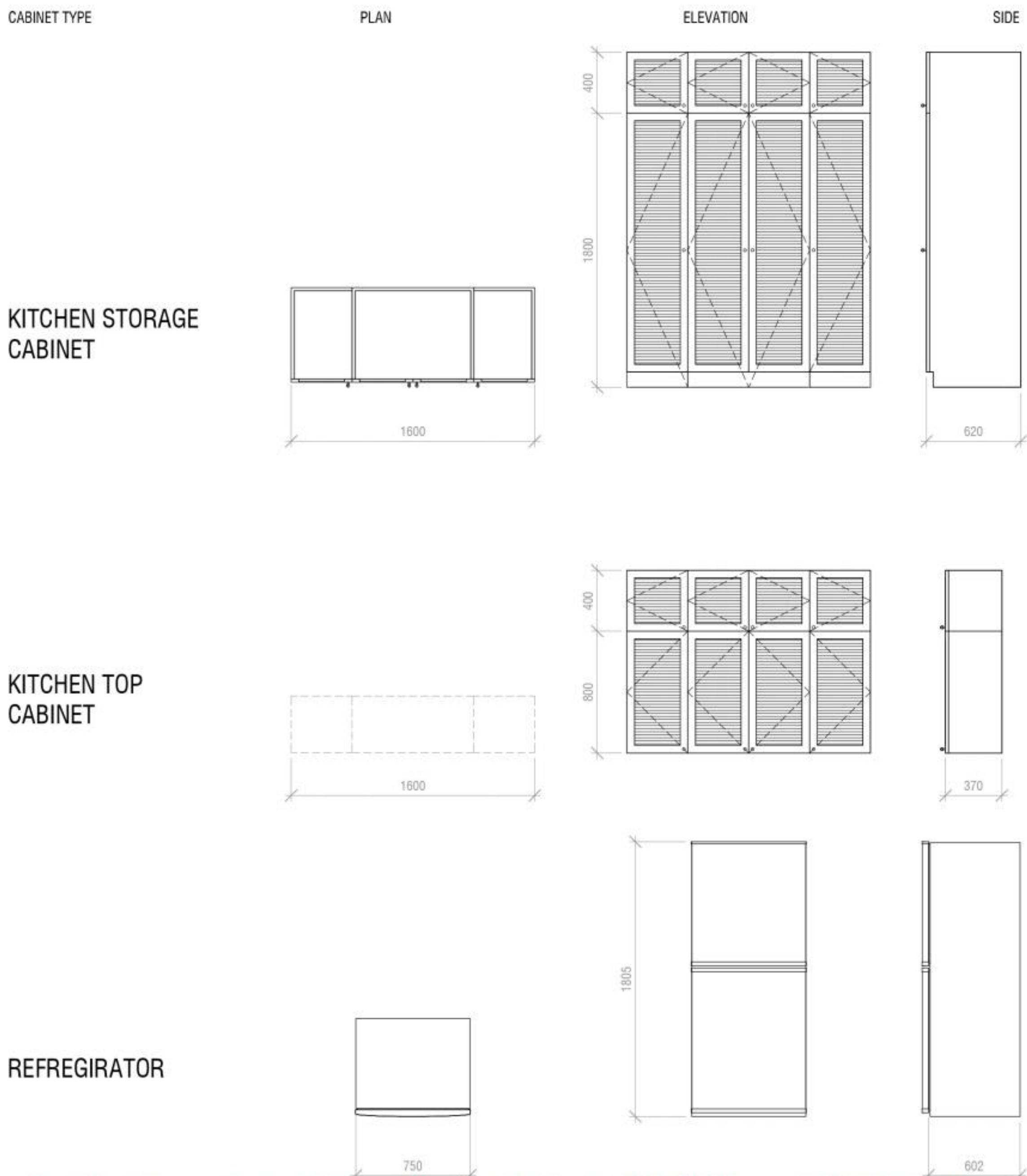
KITCHEN HOOD WALL HANGED



« Do not Load any outsourced Casework family without approval of BIM Manager / BIM Coordinator. »

All Types of Parametric Families with AIA standards.

KITCHEN SET LEGENDS



« Do not Load any outsourced Casework family without approval of BIM Manager / BIM Coordinator. »

All Types of Parametric Families with AIA standards.

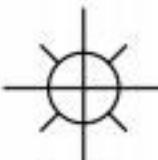
CEILING AND LIGHTING FIXTURES | Notes & Legends



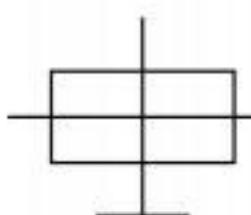
FLOOR PATTERN TAG
300 X 300MM PORCELAIN
TILES ON MATT FINISH



DECORATIVE WALL LIGHT
APPROX. 15W
FFL/HEIGHT: 1.85M



DECORATIVE WALL LIGHT
APPROX. 15W
FFL/HEIGHT: 1.85M



DECORATIVE WALL LIGHT
APPROX. 15W
FFL/HEIGHT: 1.85M



SINGLE SPOTLIGHT-80MM
CEILING ROUND RECESSED DOWN LIGHT
20v-240v OPERATING VOLTAGE, 7W
2700 K-WARM WHITE LIGHT



WATERPROOF SPOTLIGHT-IP65 80MM RECESSED
ROUND DOWN LIGHT, CEILING MOUNTED FIXTURE
WITH LED 7.5W (BATHROOM'S SHOWER)
2700 K-WARM WHITE LIGHT



NICHE SPOTLIGHT-45MM
ROUND RECESSED DOWN
LIGHT 20v-240v OPERATING VOLTAGE,
1.2W 2700 K-WARM WHITE LIGHT



SINGLE SPOTLIGHT-165MM
RECESSED LED DOWNLIGHT FIXTURE,
1559lm (KITCHEN-LAUNDRY-MAIDS
SECTION) 3000 K WARM WHITE LIGHT

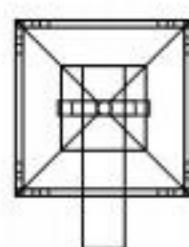


DECORATIVE CHANDELIER
APPROX. 50W SURFACE
MOUNTED AS PER APPROVED

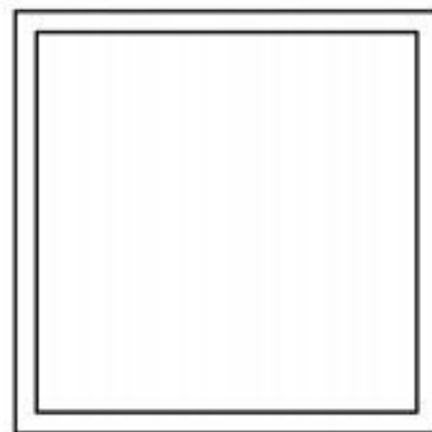


DECORATIVE SUSPENDED LIGHT
APPROX. 50W AS PER APPROVED

LED STRIP WATERPROOF-IP68
2700K-24V-17WM (BATHROOMS VANITY AND COUNTER)



EXTERIOR WALL LIGHT
LANTELS



LED SQUARE-60cmX60cm
SURFACE MOUNTED WHITE
LIGHT/SW. 20W/m, 400k
(SERVER ROOM AND STORAGE)

**« Do not Load any Ceiling & Lighting Fixtures
family without approval of BIM Manager / BIM
Coordinator. »**

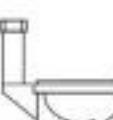
All Types of Parametric Families with AIA standards.

LIGHTING SWITCH LAYOUT

-  1 BUTTON
-  2 BUTTON
-  3 BUTTON
-  4 BUTTON
-  5 BUTTON
-  6 BUTTON

« Do not Load any Lighting Devices family without approval of BIM Manager / BIM Coordinator. »

PLUMBING FIXTURES

FAMILY TYPE	PLAN	ELEVATION	SIDE
SMALL BASIN			
SMALL BASIN - WALL HANGED			
SMALL BASIN - PEDESTAL			
SMALL BASIN - PEDESTAL			
WATER CLOSET			

« Do not Load any out sourced plumbing fixtures family without approval of BIM Manager / BIM Coordinator. »

All Types of Parametric Families with AIA standards.

PLUMBING FIXTURES

FAMILY TYPE	PLAN	ELEVATION
SQUARE SHOWER TRAY		
CIRCULAR SHOWER TRAY		
TOILET PAPER HOLDER		
FLOOR DRAIN		
VANITY UNIT		
BATH TUB - COVERED		
BATH TUB - EXPOSED		
HAND SHOWER - SHATAF		
CEILING HANGED SHOWER TRAY		
VANITY UNIT - WALL HANGED DESIGN 1		
VANITY UNIT - WALL HANGED DESIGN 2		

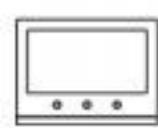
→ « Do not Load any out sourced plumbing fixtures family without approval of BIM Manager / BIM Coordinator. »

All Types of Parametric Families with AIA standards.

COMMUNICATION DEVICES



TELEVISION SOCKET OUTLET



INTERCOM H = 1.50M

« Do not Load any out sourced communication devices family without approval of BIM Manager / BIM »

TELEPHONE DEVICES

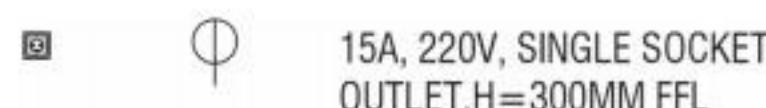


TELEPHONE SOCKET OUTLET



« Do not Load any out sourced Telephone devices family without approval of BIM Manager / BIM Coordinator. »

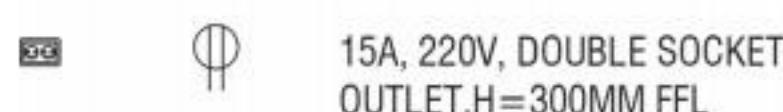
ELECTRIC FIXTURES | Notes & Legend



15A, 220V, SINGLE SOCKET OUTLET.H=300MM FFL



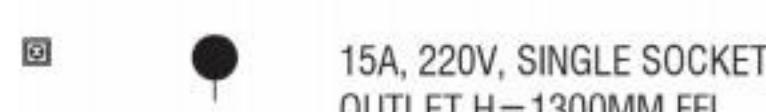
POWER POINTS FOR CURTAIN



15A, 220V, DOUBLE SOCKET OUTLET.H=300MM FFL



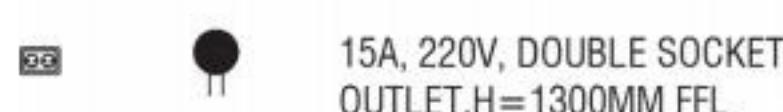
POWER POINTS FOR MIRROR
H = 1400MM FFL



15A, 220V, SINGLE SOCKET OUTLET.H=1300MM FFL



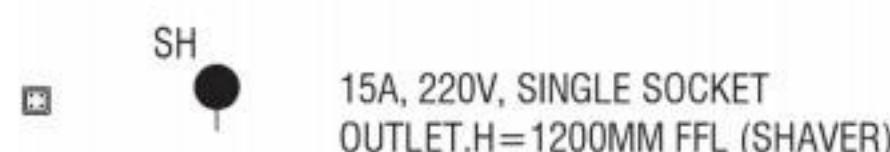
POWER POINTS FOR MAGNIFYING MIRROR
H = 1450MM FFL



15A, 220V, DOUBLE SOCKET OUTLET.H=1300MM FFL



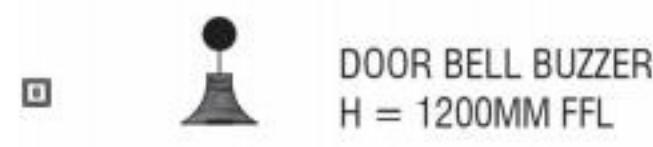
220V POWER POINTS FOR ELECTRIC COOK & RANGE HOOD



15A, 220V, SINGLE SOCKET OUTLET.H=1200MM FFL (SHAVER)



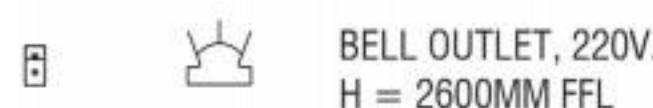
POWER POINTS FOR WARDROBES



DOOR BELL BUZZER
H = 1200MM FFL



POWER POINTS FOR WALL READING LAMP
H= AS INDICATED



BELL OUTLET, 220V.
H = 2600MM FFL



15A, 220V, DOUBLE SOCKET OUTLET
FLOOR BOX

« Do not Load any out sourced Electric Fixtures family without approval of BIM Manager / BIM Coordinator. »

All Types of Parametric Families with AIA standards.

DATA DEVICES

-  INTERNET OUTLET H.= 300MM

 -  WIFI ROUTER, ACCESS POINT
CEILING BASED →
 -  15A, 220V, SINGLE SOCKET
OUTLET.H=1200MM FFL (SHAVER)
 -  DATA SOCKET OUTLET
- « Do not Load any out sourced Data Devices family without approval of BIM Manager / BIM Coordinator. »

Naming of model files shall be based on BS1192:2007. For full compliance, recommended character restrictions should be adopted.

UK PROTOCOL FILE NAMING STANDARDS



Field 1: Project (*Recommended 3 characters*)

An abbreviated code or number identifying the project.

Field 2: Originator Code (*Recommended 3 characters*)

An abbreviated code identifying the originating stakeholder.

Field 3: Zone/System (*Recommended 2 characters*)

Identifier of which building, area, phase or zone of the project the model file relates to if the project is sub-divided by zones).

Field 4: Level (*Recommended 2 characters*)

Identifier of which level, or group of levels, the model file relates to if the project is sub-divided by levels.

Field 5: Type (*Recommended 2 characters*)

Document type, which will be **M3** for 3D model files.

Field 6: Role (*Recommended 2 characters*)

2 character discipline identifier code. Refer to Appendix 11.1.

Field 7: Description

Descriptive field to define the type of data portrayed in the file. Avoid repeating information codified in other fields. Can be used to describe any part of the previous fields, or to further clarify any other aspect of the contained data.

Local / Central (*mandatory when using worksets*)

In workset enabled files, either –LOCAL or –CENTRAL shall be suffixed to the filename.

Examples:

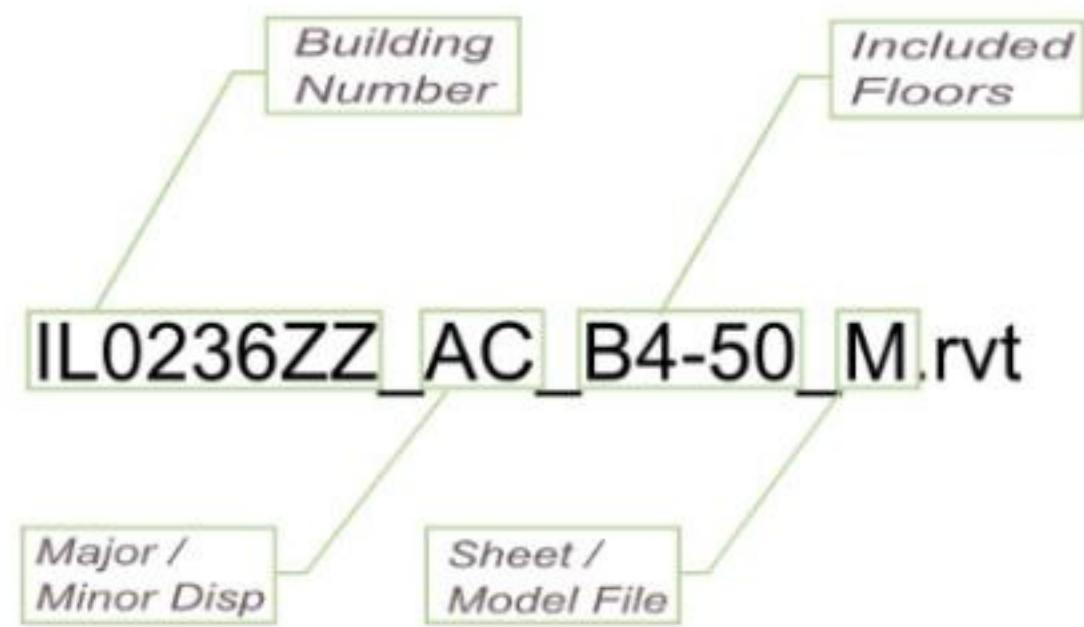
Model File Name	Description
37232-AAA-Z6-01-M3-ST-Main_Model-LOCAL.rvt	Job No. 37232, Structural drawing of Zone 6, Level 1 – User local file
FTR-ACM-XX-XX-M3-ST-School_Stage_E.rvt	Acme structures model for School project at Stage E – no zones or segregation of floors
102-ACM-Z1-XX-M3-ME-School.rvt	Acme Building Services model for job 102, Zone 1 all levels

Drawing-based file platforms will use the most current PBS CAD standard for all file naming. This document makes no changes to the existing standards for drawing-based file platforms.

GSA - US FILE NAMING STANDARDS

Project-based file platforms will use a four part file name consisting of:

The GSA assigned building ID or site ID
1 character major discipline / trade designator (from the PBS [PDF - 100 KB] -)
1 character minor discipline / trade designator (from the PBS [PDF - 100 KB] -)
5 characters to define contained floors
1 character type designator M/S/C (model, sheets, combined)



Examples

Example 1

Graphic displaying the proper method of naming project-based files

Example of several Revit models in the standard folder structure

File Name: 00000000_AI_B4-50_C.rvt

Most projects will be Combined files or C files.

These have both the BIM and supporting sheets in a single file.

Architectural Interior file;
Combined sheets and model file
Contains floors basement 4 (B4) through 50

Example 2

File Name: 00000000_EP_01-10_M.rvt

Some very large projects will need to have their model and sheets split into separate files to manage computer hardware requirements.

Electrical Power file
Model file only (no sheets)
Contains floors 01 through 10

Example 3

File Name: 00000000_A_B1-03_C.rvt

On smaller projects, a one letter discipline code may be used.

Architectural file (all Architectural elements in a single file)
Combined sheets and model file
Contains floors basement 1 (B1) through 3



Mohamed Raafat Mohamed
Architect | BIM Manager

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P: [Linkedin Profile](#)