Development Approach Guidelines regarding BIMobject® Content Development

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1. Input Needed for Model Development

The Client shall provide BIMobject with all input materials necessary for the execution of the model development services described in this Statement of Work. The required materials include, but are not limited to:

For modelling geometry/adding family parameters:

- 3D DWG or STP files for all relevant components (DWG preferred);
- 2D CAD or technical drawings for any remaining components;
- Technical sheets and/or technical PDFs in all required language versions;
- A list of parameters required to be included in the model, in all required language versions;
- Product Pages in BIMobject's portal -*if Web Services are included*.

For materials making:

- Material specification sheets, in all required language versions;
- Ready-to-use pattern files (jpg, png, or equivalent) with no visible borders or shading, and with consistent light intensity;
- RGB values
- Any thermal or physical parameters necessary for material definitions.

Preferred source files include detailed 3D DWG, STEP, or CAD files; SAT or PDF files are acceptable if fully dimensioned. Plan, elevation, and section views are required; 3D views are optional but recommended.

Default finishes will follow standard BIM model conventions. Material data may include color (RGB or Pantone), manufacturer data, and rendered appearance properties. A default finish shall be designated by Client; if not identified prior to project start, the creator will select a finish based on available product imagery.

2. Design Intent

All models will be created or modified with file size and usability as the driving factors. All models will render as necessary for use in the industry. Products will be readily available and accurate, per information provided by Client or their website. Links to the website, the product page and the documentation for each item will also be provided.

3. Design Intent for 'Revit'

Revit is a "non-backwards compatible" software (Definition: you cannot save models to an older version of Revit). You can always upgrade current models to a newer release. To remain relevant within the industry, all models will be created/updated **in the 4th version back of the latest release of Revit** , unless otherwise requested prior to the start of the

project. If the project creation timeline extends 6 months past the newest release of the Revit Product Series, we reserve the right to upgrade the entire project by one release as needed. The Client will be notified prior to any potential upgrade.

4. Design Intent for ARCHICAD

ARCHICAD is a "non-backwards compatible" software (Definition: you can save models to an older version of ARCHICAD, but you cannot open newer files in older versions of Archicad). You can always upgrade current models to a newer release. To remain relevant within the industry, all models will be created/updated in **one or more version/s back of the latest release of ARCHICAD**, unless otherwise requested prior to the start of the project. If the project creation timeline extends 6 months past the newest release of the ARCHICAD Product Series, we reserve the right to upgrade the entire project by one release as needed. The Client will be notified prior to any potential upgrade.

5. Development Approach Guidelines

In addition to creating dynamic and dimensionally accurate models in Revit/ARCHICAD, we will also work within the following guidelines:

- All dimensions will be based solely on CAD/SAT geometry and specification sheets provided.
- All models will be modelled to nominal dimensions without specific tolerance values specified.
- Product dimensions will be based solely on CAD/SAT geometry and specification sheets provided by Client.
- Materials as listed by the manufacturer and the constraints listed below.
    - A default material will be chosen, and the other finishes will be created so that the Designer/Engineer can switch to the other options.
    - Finishes will be based on content found on the Client website or data sheets provided and will remain consistent.
- Primary models are created for each product line, additional models or model numbers will be added as types, where applicable.
- Grouping of models will be designated by the creator unless otherwise noted or requested prior to the start of the project.
- Manufacturer Data Parameter Updates: Included with each type definition within a family are manufacturer and product data information. This is of value when scheduling information and preparing specifications. Manufacturer and product data will include:
    - URL to manufacturer's website
    - Product page URL to manufacturer's website
    - Product documentation URL to manufacturer's website
    - Model number
    - Model description
    - Green and/or LEED Certificates, if available
    - OmniClass identification
- Certain areas of the specification sheet will be added as data parameters only.
- Some parameters will be parametrically controlled by the user.
- The models will be suitable for architects and engineers; both visually and in file size to use in a project. The models will not be fabrication models. Information inside of the model, *(such as: mount kits, screws, etc.)* will not be modelled.
- Anything located above, below or within another object (Inside enclosures, floor, ceiling, wall, etc.) may be simplified or not created.

- In instances of more than 6 types, a Revit type catalog will list all models, sizes and options for a product. This enables the designer to load the specific models required for a project without the burden of excessive sizes and types.
- The company name will be “Client” unless requested otherwise, before or at the time of the initial model review.
- The BIM models will have a link to their corresponding product pages added as a parameter.
- In the event of a product having a light source, this will be included. If no information in regards, default light/s source/s will apply.
- No brand logos will be added in 2D/3D representations.
- Movable and/or rotatable components treated as static components by default.
- MEP connectors will be added when applicable. If no information in regards is provided by the Client, default MEP connectors will be used.

6. General Assumptions

- The models will be suitable for AEC professionals; both visually and in file size to use in a project. The models will not be fabrication models. Information inside of the model, *(such as: mount kits, screws, etc.)* will not be modelled.
- Anything located above, below or within another object *(floor, ceiling, wall, etc.)* will not be created.
- These models will be dimensionally accurate per the provided documentation given prior to the start of the project.
- Accuracy is always our goal with these products. If accurate documentation is not provided, then we will make assumptions on the dimensions in question.
    - We will reach out to Client to verify questions on dimensions that we cannot find but will make an educated guess if the information cannot be obtained.
- Material options may be limited to a select few to help maintain smaller file size.
- Certain areas of the datasheet will be added as data parameters only. Please refer to the “General Approach Guidelines” for details.
- Materials and Thickness will be parametrically controlled by the user.
- It is assumed that the product will continue to meet the following quality characteristics, and will be optimised to RMSG 2.1 standards in the following areas:
    - 3D Geometry Optimization
    - 3D Geometry to 2D Graphics
    - Minimum/Maximum, where applicable
    - Symbolic Representation
    - Level of Detail Development