
AUTODESK® SEEK METADATA STYLE GUIDE



Draft Version 1.0

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Revision History

<u>DATE</u>	<u>VERSION</u>	<u>AUTHOR</u>	<u>DESCRIPTION</u>
01/31/08	0.1	Paul Busby/ Ryan Nutbrown (Autodesk)	Created initial document
02/11/08	0.2	Paul Busby/ Ryan Nutbrown (Autodesk)	<ul style="list-style-type: none"> • Added links from the quick reference tables to the detailed section and back again (for each attribute) • Changed the title of Section 3.0 to “Entry Definition Section” and added the “Manufactured or Generic” field • For the “Correct Entries” part of the quick reference table - ensure that the entries in this column are clearly labeled with either “Valid Values” or “Examples” as appropriate • Changed “Manufacturer Location” attribute to “Point of Final Manufacture” • Added 2 attributes to Section 6.0 Industry Standards Section: “Percentage Post-Consumer Material” and “Requires Special Disposal (T/F)” • Added a tentative definition to the “Building Codes” attribute and altered the definition slightly for the “LEED Credits” attribute • Highlighted the missing PartAtom element mappings • Updated Section 7: Customer Support Information (WIP) • Added additional UOMs to Appendix B to ensure the most common units of measure are represented (WIP)
05/30/08	0.3	Paul Busby/ Ryan Nutbrown (Autodesk)	<ul style="list-style-type: none"> • Replaced ‘Socrates’ with ‘Seek’ throughout. • Replaced ‘part’ with ‘product’ throughout. • Replaced ‘sub-part’ with ‘sub-component’ throughout. • Updated screenshots to show new UI. • Added Section 2 - Participation Levels • Updated wording on main page of section 5. • Common attribute updates (referenced by number in section 4 table): <ul style="list-style-type: none"> ○ [1]: Updated definition and added examples. ○ [3.1]: Updated definition. Extended definition in section 5. ○ [3.2]: Renamed attribute to Family Product or Sub-Component. ○ [3.2.1]: Renamed attribute to Parent Family or Product. ○ [3.3]: Renamed attribute to Related Products. Updated definition. Added rules and examples.

DATE	VERSION	AUTHOR	DESCRIPTION
			<ul style="list-style-type: none"> ○ [3.4]: Renamed attribute to Alternate Products. Updated definition. Added rules and examples. ○ [4.1]: Updated definition and rules ○ [4.2]: Renamed attribute to Mfr Product Number/Family Name. Added rules. ○ [4.3]: Updated definition. Added rules and examples. ○ Deleted attribute In-Production (T/F). ○ Deleted attribute List Price. ○ [5.1]: Updated definition. ○ [5.2]: Updated rules. Added hyperlinks to screenshots. ○ [6.1]: Changed valid values to examples. ○ [6.2]: Updated definition. ○ [6.3] and [6.4]: Renamed attribute. Added valid values. ○ [6.5]: Renamed attribute to Industry Standards. Updated definition. Added rules and examples. ○ [7.2] and [7.2.1]: Added to the definition in Section 5 only ○ [9.1] and [9.2]: Updated definition and rules. ○ [9.3]: Updated definition and rules. Changed examples to valid values and added to valid values list. ○ [10.1]: Updated definition and rules. ○ [10.2]: Updated definition. ○ [10.3]: Updated definition and added to valid values list. ○ [10.4]: Updated rules. Changed examples to valid values and added to valid values list. ○ [10.5]: Changed examples to valid values. ○ [10.6] and [10.7]: Added to valid values list. ● Changed inches UOM throughout from in to “ ● Changed feet UOM throughout from ft to ‘ ● Added more detail to section 6: Cleansing Rules ● Updated required fields for Basic and BIM Ready participation.
06/20/2008	0.4	Paul Busby/ Ryan Nutbrown (Autodesk)	<ul style="list-style-type: none"> ● Added the QA Checklist as Appendix B ● Added links in “Section 1: Introduction” to the specific sections of the style guide
10/27/2008	0.5	Paul Busby/ Ryan Nutbrown (Autodesk)	<ul style="list-style-type: none"> ● Created and added new screenshots to capture new Autodesk Seek UI. ● Deleted 6.1 LEED Credits

<u>DATE</u>	<u>VERSION</u>	<u>AUTHOR</u>	<u>DESCRIPTION</u>
01/08/09	0.51	Paul Busby/ Ryan Nutbrown (Autodesk)	<ul style="list-style-type: none"> • Removed Autodesk Confidential from header. • Added Copyright information to the last page of document. • Updated contact information in Section 7 - Customer Support. • Updated 10.3: added rule/screenshot and added to valid value list. • Updated UOM for degrees in Appendix B.
05/31/09	1.0	Paul Busby/ Ryan Nutbrown (Autodesk)	<ul style="list-style-type: none"> • Changed all references of High Definition (HD) to BIM Ready • Updated Section 1: Introduction • Section 2: <ul style="list-style-type: none"> ○ Changed section title ○ Updated basic description ○ Updated required attributes for Basic and BIM Ready • Updated screenshots to show new UI. • Removed every instance of UniFormat and MasterFormat 95 • Common attribute updates (referenced by number in section 4 table): <ul style="list-style-type: none"> ○ [1.0]: Updated definition, added to section 5 ○ Changed the title of Section 3.0 to “Product Definition Section” in reference table ○ Deleted 3.2.1 Parent Family or Product ○ Deleted 3.3 Related Products ○ Deleted 3.4 Alternate Products ○ Deleted 4.4 Point of Final Manufacture ○ Deleted 4.5 Distributor Locations ○ Deleted 6.1 Percentage Post-Consumer Material ○ Deleted 6.2 Requires Special Disposal (Y/N) ○ ADA Compliant (Y/N) reference number changed from 6.3 to 6.1 ○ ADA Compliant (Y/N) renamed to ADA Compliant ○ Industry Standards reference number changed from 6.4 to 6.2 ○ [7.1] Added new rule (2nd bullet) ○ [7.2] Added new rule (2nd bullet) ○ [7.2.1] Updated rules (4th bullet) • Merged the Document Files and Design Files tabs in the Product Workbook, renamed the tab to Attachments. Made extensive changes in the Style Guide to reflect these changes. <ul style="list-style-type: none"> ○ [9.1] Renamed, merged, updated rules ○ [9.2] Renamed, merged, updated rules

DATE	VERSION	AUTHOR	DESCRIPTION
			<ul style="list-style-type: none"> ○ [9.3] Renamed, merged, updated rules ○ [9.4] Renamed, merged, updated rules, made this field required ○ [10.1] Deleted ○ [10.2] Deleted ○ [10.3] Deleted ○ [10.4] Deleted ○ [10.5] Deleted ○ [10.6] Deleted ○ [10.7] Deleted ● Updated opening page of Section 5, renamed the title of this section ● Added new section...Section 6: Category Specific Attributes ● Former section 6 became section 7, former section 7 became section 8 ● Added new rule to section 7 (rule #1) ● Changed layout of Appendix B and updated table with new UOM's ● Updated Product Workbook with common attribute changes mentioned above, provided more sample data and used category specific attributes in the sample data so it can be used more effectively as a reference. ● Updated screenshots in Section 5 ● Removed all PartAtom information from Section 5 and added new Appendix (A) to capture PartAtom information. <ul style="list-style-type: none"> ○ [6.2] Updated corresponding PartAtom element ○ [7.1] Updated PartAtom example ○ [8.1] Updated PartAtom example ○ [8.2] Updated PartAtom example ○ [8.3] Updated PartAtom example ○ [9.1] Updated PartAtom info ○ [9.2] Updated PartAtom info ○ [9.3] Added PartAtom info ○ [9.4] Updated PartAtom info ● Added new common attribute: [5.3] Product Synonym

Section 1: Introduction

The purpose of the Autodesk Seek Metadata Style Guide is to define style and formatting rules that manufacturers, content service organizations and other content publishers can reference to assist in the creation of high quality content for Autodesk Seek. Providing rich content and following the rules of the Style Guide will ensure the end user's experience in finding data is seamless and efficient. This document is directly related to the [Product Workbook](#), an Excel template. It defines how the fields in the Product Workbook should be populated.

This Style Guide contains:

Section 1: An introduction that explains why this Style Guide was developed and the function it serves.

[Section 2:](#) Quick reference table that defines the inclusion requirements within Autodesk Seek.

[Section 3:](#) Screenshots complete with numerical references that provide a visual representation of where the common attributes appear in Autodesk Seek. The numerical references in the screenshots are also captured in the first column of the common attributes tables found in section 4.

[Section 4:](#) Quick reference tables which contain just enough information to assist in the population of the fields found within the Product Workbook.

[Section 5:](#) Provides a more detailed explanation of the *Common Attributes* within Autodesk Seek (in addition to what is outlined in Section 4 – the quick reference table) and will describe any rules that apply to that particular field. Where appropriate, examples are provided to illustrate how data is expected to be populated within the field.

[Section 6:](#) Provides a detailed explanation of what a *Category Specific Attribute* is, why they are important, where they come from, how they are populated in the Product Workbook and where they appear in Autodesk Seek.

[Section 7:](#) Outlines recommended style and formatting rules content publishers should adhere to when populating/cleansing product information.

[Section 8:](#) Customer support information.

[Appendix A:](#) PartAtom

[Appendix B:](#) UOM List

[Appendix C:](#) QA Checklist

Section 2: Inclusion Requirements

Autodesk Seek uses enhanced search technology to increase your standing within the search results when a user performs a search. Listed below are just some of the criteria that helps improve your product’s standings:

1. Downloads - specifically the type of download available (i.e. RFA or DWG...) and the content contained within the download (i.e. Specifications or Detail...)
2. Completeness and readability of the descriptions
3. Number of populated attributes
4. Inclusion of product images

The table below defines the 2 levels of requirements for inclusion to Autodesk Seek:

Quality Level	Description	Required Fields	
Basic	Participate in the Autodesk Seek ecosystem with a basic listing of your products, which can be identified by users as potential candidates for their designs. The required fields for Basic level represents the minimum requirements for inclusion to Autodesk Seek.	ID Category Schema Schema Code Schema Title Manufactured or Generic Family or Product or Sub-Component Manufacturer Mfr Product Number/Family Name Item Name	Long Description Link - Primary Full Image: URL Link - Mfr Logo Link - Mfr Webpage: URL Link - Product Webpage: URL Link - Attachment: URL Link - Attachment: Title Link - Attachment: Type Link - Attachment: Source Application and Version
BIM Ready	Take advantage of the BIM explosion with your products deeply embedded in the design, analytics and visualization processes. The highest possible rating for BIM Ready content is to have ALL attributes populated (common and category specific).	Above attributes plus: Category specific attribute population To be considered BIM Ready for the Architecture, Engineering and Construction (AEC) market, the attachment must be a 3D RFA design file.	

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Section 3: Search Results Screenshot

Autodesk® Seek

The online source for product specifications and design files

FAQ Discussions Feedback | Manufacturer Home

Register Login

Search Products by: Manufacturer Community

All File Types Search

Autodesk Seek currently serves the U.S. AEC (architecture, engineering and construction) market

Revit Architecture Market Powered by TURBOSQUID

Buy, sell, and trade Revit families on TurboSquid

Home

Filter

Product Attributes

- All Connection Size Values
- All Connection Type Values
- All Handle Type Values
- All Height Values
- All Industry Standard Values
- All Integral Finish Values
- All Manufacturer Product Line
- All Material Values
- All Method Of Operation Value:
- All Mount Type Values
- All Spout Type Values
- All Valve Type Values
- All Width Values

Manufacturer

- Franklin Faucets (3)
- Wally Windows (3)

File Type

- DWF (6)
- DWG (6)
- RFA (6)
- More

External Catalogs

- Sample (6)

Manufacturer

<<< Now showing 1-6 of 6 entries >>> Email search results

	500 Series Casement Window, Aluminum Cladding, 14" to 22" Height, 14" to 22" Width Wally Windows	1 RFA 1 DXF 1 TXT	1 DWG 2 PDF 1 ZIP	1 DWF 1 DOC	Details
	Two Handle Bath Faucet, Lever Handle, Polished Nickel, Brass Body Franklin Faucets	1 RFA 1 DXF	1 DWG 2 PDF	1 DWF 1 DOC	Details
	600 Series Casement Window, Vinyl Cladding, 18" to 26" Height, 18" to 26" Width Wally Windows	1 RFA 1 DXF 1 TXT	1 DWG 2 PDF 1 ZIP	1 DWF 1 DOC	Details
	Two Handle Bath Faucet, Lever Handle, Polished Chrome, Brass Body Franklin Faucets	1 RFA 1 DXF	1 DWG 2 PDF	1 DWF 1 DOC	Details
	Two Handle Bath Faucet, Cross Handle, Brushed Nickel, Brass Body Franklin Faucets	1 RFA 1 DXF	1 DWG 2 PDF	1 DWF 1 DOC	Details
	400 Series Casement Window, Aluminum or Vinyl Cladding, 10" to 18" Height, 10" to 18" Width Wally Windows	1 RFA 1 DXF 1 TXT	1 DWG 2 PDF 1 ZIP	1 DWF 1 DOC	Details

<<< Now showing 1-6 of 6 entries >>>

5.1 Item Name

4.1 Manufacturer

7.1 Link - Primary Full Image: URL

Section 3: Detailed View Screenshot

Home >> 600 Series Casement Window, Vinyl Cladding, 18" to 26" Height, 18" to 26" Width Email this page

600 Series Casement Window, Vinyl Cladding, 18" to 26" Height, 18" to 26" Width

5.1 Item Name

7.1 Link - Primary Full Image: URL

9.1 Link - Attachment: URL

8.1 Link: Mfr Logo

8.2 Link - Mfr Webpage: URL

5.2 Long Description

6.1 ADA Compliant

6.2 Industry Standards

4.3 Manufacturer Product Line

9 files for download Download selected

About i-drop

- 1 RFA file Select All
- 3D, Revit Architectu 352K | 3D View
- 1 DWG file Select All
- 1 DWF file Select All
- 1 DXF file Select All
- 2 PDF files Select All
- 1 DOC file Select All
- 1 TXT file Select All
- 1 ZIP file Select All

Manufacturer **WW**
Wally Windows

Description [View at source](#)

Wally Windows 600 series casement windows glide open and shut with the turn of one easy-to-reach handle, offering uncluttered views with effortless operation. Features a polyamide thermal break for excellent thermal performance, these windows come in a variety of colors and interior finishes. Also available with an fold-away handle that won't interfere with roomside window treatments.

Types/Specifications

ADA Compliant	No
Air Infiltration	0.02 cfm/sq ft
Cladding	Vinyl
Color	Cadet Gray , Ebony , Arctic White , Cascade Blue , Cobalt Blue , Hampton Sage , Sherwood Green , Wineberry
Depth	3.25
Design Pressure	30
Height	18" , 20" , 22" , 24" , 26"
Industry Standards	AAAMA/WDMA/CSA 1011.S.2/A440 , UL Listed
Interior Finish	Pine , Oak , Maple
Manufacturer Product Line	Designer Series
Solar Heat Gain Coefficient	0.32
Sound Transmission Class	24
Type of Glazing	Single , Double
U Value	0.35

Section 4: Quick Reference Tables

Data Common Attributes

The common attributes shaded yellow are **required** fields for level 1 (Basic) and in order to be included in Autodesk Seek they must be populated. **Basic plus** category specific attribute population and at least one 3D RFA model are **required** for a product to be considered BIM Ready. The common attributes that are not shaded yellow are **recommended** fields (optional).

Screenshot Reference Number	Field Name (Common Attributes)	Field Definition	Correct Entries <i>(Note: Valid Values - when given - represent all the allowable values for the field. No other information aside from the valid values given would be permitted in the field.)</i>
1.0	ID	A unique identifier, assigned by the content publisher. Ctrl + Click for further attribute details.	Examples: <ul style="list-style-type: none"> • NST345NST12774/1 • 22196 • LH-00072 • 8562:2 • Wally Windows - ABC Series
2.0 Schema Section			
2.1	Category Schema	Identifies a particular schema that will be used for categorizing products. OmniClass 1.0 Table 23 is the recommended and preferred schema . Ctrl + Click for further attribute details.	Valid Values: <ul style="list-style-type: none"> • For OmniClass 1.0 Table 23 use -> std:oc1 • For MasterFormat 2004 use -> std:mf04
2.2	Schema Code	The code/number/term from a specific schema assigned to the item. Ctrl + Click for further attribute details.	Examples: <ul style="list-style-type: none"> • OmniClass: 23.30.20.17.21.11 • MasterFormat 2004: 08.51.13
2.3	Schema Title	The description of the schema title accompanying the Schema Code assigned to the item. Ctrl + Click for further attribute details.	Examples: <ul style="list-style-type: none"> • OmniClass: Awning Windows • MasterFormat 2004: Aluminum Windows

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Screenshot Reference Number	Field Name (Common Attributes)	Field Definition	Correct Entries (Note: Valid Values - when given - represent all the allowable values for the field. No other information aside from the valid values given would be permitted in the field.)
3.0 Product Definition Section			
3.1	Manufactured or Generic	Indicates whether the product is a manufactured product or generic model. Ctrl + Click for further attribute details.	Valid Values: <ul style="list-style-type: none"> • <i>Manufactured</i> • <i>Generic</i>
3.2	Family or Product or Sub-Component	Family: refers to a variable item. Product: refers to a discrete item. Sub-Component: a discrete item designed for use with a specific product. Ctrl + Click for further attribute details.	Valid Values: <ul style="list-style-type: none"> • <i>Family</i> • <i>Product</i> • <i>Sub-Component</i>
4.0 Manufacturer Section			
4.1	Manufacturer	The name of the company that manufactures the item in a normalized manner. Normalization is a process in which several variances of the same name are condensed to a single unique form. Ctrl + Click for further attribute details.	Examples Before Normalization: <ul style="list-style-type: none"> • <i>W-W</i> • <i>W-W®</i> • <i>Wally Windows</i> • <i>Wally Windows®</i> Example After Normalization: <ul style="list-style-type: none"> • <i>Wally Windows®</i>
4.2	Mfr Product Number or Family Name	This field is designed to capture the Manufacturer Product/Part Number. This field is also designed to capture the Manufacturer Family Name (or Manufacturer Family Product/Part Number). For Family: populate with family name or family product/part number if one exists. For Products: populate with product/part number. For Sub-Components: populate with product/part number. Ctrl + Click for further attribute details.	Examples: <ul style="list-style-type: none"> • <i>FAUC12IPSPCBRS</i> • <i>ABC Series</i>
4.3	Manufacturer Product Line	A manufacturer-specific text field designed to capture (in a word or two) the designated name/grouping of a line of products. Ctrl + Click for further attribute details.	Examples: <ul style="list-style-type: none"> • <i>Traditional Designs®</i> • <i>Contemporary Brass Collection</i>

Screenshot Reference Number	Field Name (Common Attributes)	Field Definition	Correct Entries (Note: Valid Values - when given - represent all the allowable values for the field. No other information aside from the valid values given would be permitted in the field.)
5.0 Product Description Section			
5.1	Item Name	A brief, readable, description of the product to differentiate it within a list of similar search results. The Item Name should allow the user to view the most essential product information in a single glance. Also known as Short Description. Ctrl + Click for further attribute details.	Examples: <ul style="list-style-type: none"> • <i>ABC Series Casement Window, Aluminum or Vinyl Cladding, 10" to 18" Height, 10" to 18" Width</i> • <i>Two Handle Bath Faucet, Lever Handle, Polished Chrome, Brass Body</i>
5.2	Long Description	Contains richer, more fully detailed information about a specific product. Ctrl + Click for further attribute details.	Example: <i><i>Wally Windows ABC series casement windows</i> glide open and shut with the turn of one easy-to-reach handle, offering uncluttered views with effortless operation. This award winning design meets AAMA/WDMA/CSA 101/I.S.2/A440 standards and is <u>UL Listed</u>.
</i><u>Features:</u><i>Polyamide thermal break for excellent thermal performance.</i><i>Come in a variety of colors and interior finishes.</i><i>Also available with an fold-away handle that won't interfere with roomside window treatments.</i></i>
5.3	Product Synonym	An optional field intended to help improve search results in Autodesk Seek. This field should be populated with synonyms (aliases, keywords or tags) that the product may also be known by. Ctrl + Click for further attribute details.	Examples: <ul style="list-style-type: none"> • <i>Bubblers (for a water fountain)</i>
6.0 Industry Standards Section			
6.1	ADA Compliant	This field identifies if the product is ADA Compliant. Ctrl + Click for further attribute details.	Valid Values: <ul style="list-style-type: none"> • Yes • No
6.2	Industry Standards	This field identifies the relevant industry standards applicable to the product. This also includes building codes and safety certification organizations. Ctrl + Click for further attribute details.	Examples: <ul style="list-style-type: none"> • <i>UL Listed</i> • <i>cUL Listed</i> • <i>UL Listed cUL Listed</i> • <i>AAMA/WDMA/CSA 101/I.S.2/A440 UL Listed</i> • <i>ANSI/ASME A112.18.1 CSA B125 IAPMO Listed CSA Certified ICC/ANSI A117.1/ADA</i>

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Link Common Attributes

Screenshot Reference Number	Field Name (Common Attributes)	Field Definition	Correct Entries (Note: Valid Values - when given - represent all the allowable values for the field. No other information aside from the valid values given would be permitted in the field.)
7.0 Product Image Section			
7.1	Link - Primary Full Image: URL	A link to the primary full image of the product. The thumbnail on the search page will be created using this image. Ctrl + Click for further attribute details.	Example: <ul style="list-style-type: none"> http://wallywindows.com/images/ABC Series Casement Window Open.jpg
7.2	Link - Secondary Full Image(s): URL	Link(s) to the secondary full image(s) of the product. These additional images may be included to show the product in differing colors or materials, to show different views of the product or to show the product in application. Ctrl + Click for further attribute details.	Example: <ul style="list-style-type: none"> http://www.wallywindows.com/ABC Series Casement Window Interior View.jpg
			Multiple-Entry Example: <ul style="list-style-type: none"> http://www.wallywindows.com/ABC Series Casement Window Interior View.jpg http://www.wallywindows.com/ABC Series Casement Window Exterior View.jpg
7.2.1	Link - Secondary Full Image(s): Caption	A brief caption for the secondary full image(s), indicating the type of information the image contains. Ctrl + Click for further attribute details.	Example: <ul style="list-style-type: none"> ABC Series Casement Window Interior View
			Multiple-Entry Example: <ul style="list-style-type: none"> ABC Series Casement Window Interior View ABC Series Casement Window Exterior View
8.0 Manufacturer and Product Link Section			
8.1	Link - Mfr Logo	A link to an image file representing the manufacturer's logo. Ctrl + Click for further attribute details.	Example: <ul style="list-style-type: none"> http://www.wallywindows.com/Wally Windows.jpg
8.2	Link - Mfr Webpage: URL	A link to the manufacturer's home page. Ctrl + Click for further attribute details.	Example: <ul style="list-style-type: none"> http://wallywindows.com
8.3	Link - Product Webpage: URL	A link to a web page with information about the product. Ctrl + Click for further attribute details.	Example: <ul style="list-style-type: none"> http://wallywindows.com/windows/ABCSeries.htm

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Screenshot Reference Number	Field Name (Common Attributes)	Field Definition	Correct Entries (Note: Valid Values - when given - represent all the allowable values for the field. No other information aside from the valid values given would be permitted in the field.)
9.0 Attachments Section			
9.1	Link - Attachment: URL	A link to a downloadable attachment, either a document containing additional product information or a design file (a drawing). This section details the information needed to add downloadable attachments to the item in Autodesk Seek. Ctrl + Click for further attribute details.	Example: <ul style="list-style-type: none"> • http://wallywindows.com/Casement Window - ABC Series - Specifications.pdf • http://www.wallywindows.com/Casement Window - Wally ABC Series.rfa
9.2	Link - Attachment: Title	A text field that briefly describes the linked downloadable attachment. Ctrl + Click for further attribute details.	Examples: <ul style="list-style-type: none"> • Thermal Rating • Pressure Drop Curve • Dimensional Data
9.3	Link - Attachment: Type	A fixed text field (pick list) describing the type of the downloadable attachments. Ctrl + Click for further attribute details.	Valid Values: <ul style="list-style-type: none"> • 3-Part Specification • Technical Data Sheet • Product Brochure • Installation Instructions • Product Support Information • Warranty Information • Maintenance and Installation Instructions • MSDS • Maintenance Instructions • Parts and Accessories Information • Operating Instructions • Product Catalog • Software Support Guide • 2D Design File • 3D Design File • Design File
9.4	Link - Attachment: Source Application and Version	Defines the application and version used to create the linked downloadable attachment. Ctrl + Click for further attribute details.	Examples: <ul style="list-style-type: none"> • MS Word 2007 • MS Excel 2003 • Adobe Acrobat 8 • WordPerfect 8 • AutoCAD 2004 • AutoCAD Architecture 2007 • Autodesk 3ds Max • Autodesk Maya • Revit Architecture • Revit MEP

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Section 5 - Common Attributes

Common attributes are defined as attributes that are relevant to (or common to) every item in the Product Workbook and Autodesk Seek. For example, the Item Name field is common to all items as every item contains a brief description. Altogether Autodesk has created 23 common attributes, 18 of which are required (required means the attribute must be fully populated) for Basic inclusion to Autodesk Seek. All of the common attributes are listed in the Product Workbook template and are spread across two tabs: *Product Details* and *Attachments*. This Style Guide is directly related to the Product Workbook.

The Product Details tab contains the metadata for the products or families. Each new row indicates one product or family that is the foundation of a product page in Autodesk Seek. The ID common attribute is the unique identifier which links the two tabs together.

The Attachments tab is where all the downloadable attachments (documents and design files) are populated. Spec sheets, product brochures, product support information, installation instructions, 2d and 3d drawings are a few examples of the types of attachments one can expect to find here. The ID field on the Attachments tab can have duplicate values as it is probable that a product on the Product Details tab will have more than one attachment.

The goal of this section is to provide a more detailed look at the common attributes defined in the quick reference table above (Section 4), More specifically, the common attribute definitions are expanded, the corresponding PartAtom elements are listed (examples are provided where necessary), the attribute rules are defined and often examples of Style Guide compliant entries are provided.

Some common attributes may only be populated with specific values, which are referred to as **valid values**. Where applicable, a list of valid values is provided.

1.0 ID

The ID field is a unique identifier assigned by the content publisher. It is not visible in the Autodesk Seek user interface. It is used in the background for updates, deletions and extractions.

Rules to Follow:

- *Must be unique.*
- *Cannot contain special characters such as: ™, ®, ©, ¼, ½, ¾, μ - to name a few.*
- *Rule of thumb: append the manufacturer name and the manufacturer part number adhering to this format: <Mfr Name> - <Mfr Part Number> (see bullet 5 as an example). Following this rule will ensure that the ID is unique.*
- *Required field.*

Examples:

- *NST345NST12774/1*
- *22196*
- *LH-00072*
- *8562:2*
- *Wally Windows - ABC Series*

2.1 Category Schema

The Category Schema field is used to identify the schema (also referred to as taxonomy) being used to categorize the data. A schema, in this sense, refers to a labeling, tagging or coding system used for recording cataloging information or structuring descriptive records. [OmniClass 1.0 Table 23](#) is the recommended and preferred schema.

Rules to Follow:

- This field must be populated with one of the valid values defined below.
- The Category Schema given must correspond to the Schema Code (ref# 2.2) and Schema Title (ref# 2.3). If “Schema Code” and “Schema Title” are from OmniClass 1.0 Table 23, then the correct Category Schema value to use would be “std:oc1”.
- Only one schema per product may be entered.
- Required field.

Valid Values:

Schema Name	Valid Value
OmniClass 1.0 Table 23	std:oc1
MasterFormat 2004	std:mf04

[Return to Quick Reference Table](#)

2.2 Schema Code

Each individual category within a given schema can consist of two parts: one part is a code that is usually numeric (although it may sometimes include letters, spaces or periods as well) and the second part is a title or name which accompanies the code and provides a short description of the category. The Schema Code field is used to capture the numeric code portion of the category or categories assigned to the item.

Rules to Follow:

- Must be a valid code from the OmniClass or MasterFormat schemas.
- [OmniClass 1.0 Table 23](#) is the preferred schema.
- Must correspond to the Schema Title (ref# 2.3).
- Only one code per product may be entered.
- Required field.

Examples:

- OmniClass: **23.30.20.17.21.11**
- MasterFormat 2004: **08.51.13**

2.3 Schema Title

Each individual category within a given schema can consist of two parts: one part is a code that is usually numeric (although it may sometimes include letters, spaces or periods as well) and the second part is a title or name which accompanies the code and provides a short description of the category. The Schema Title field is used to capture the title or name portion of the category or categories assigned to the item.

Rules to Follow:

- Must be a valid title from the OmniClass or MasterFormat schemas.
- [OmniClass 1.0 Table 23](#) is the preferred schema.
- Must correspond to the Schema Code (ref# 2.2).
- Only one title per product may be entered.
- Required field.

Examples:

- OmniClass: **Awning Windows**
- MasterFormat 2004: **Aluminum Windows**

[Return to Quick Reference Table](#)

3.1 Manufactured or Generic

Indicates whether the product is a manufactured product or generic model. Examples of generic models are AutoCAD libraries containing models created by Autodesk or user created models. Generic models are not manufactured.

Rules to Follow:

- *Casing must match valid values listed below.*
- *When the value entered is "Generic", please ensure that "Generic" is also entered in the Manufacturer field.*
- *Required field.*

Valid Values:

- *Manufactured*
- *Generic*

3.2 Family or Product or Sub-Component

This field indicates whether the product refers to a family of products, to a discrete product or to a sub-component.

A family refers to a variable item. The variance is based upon configurable options, such as Color, Material, Type of Glazing, etc. As opposed to representing every discrete permutation as a discrete item, a family represents a collection of products. Families are typically represented by a series (e.g. Series 2000 Window).

A product refers to a discrete item. The item is represented by a unique product number (e.g. 2000-BR-742). There are no configurable options - entirely finite (e.g. Color = Black, Material = Wood, etc.).

A sub-component is a discrete item that is designed for use with a specific product. For example, a clip designed for use with a specific curtain wall. A sub-component cannot be used in another application; only with its parent product.

Rules to Follow:

- *Casing must match valid values listed below.*
- *Required field.*

Valid Values:

- *Family*
- *Product*
- *Sub-Component*

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4.1 Manufacturer

This field is designed to capture the name of the company that manufactures the item in a normalized manner. Normalization is a process in which several variances of the same name are condensed to a single unique form. The incorrect entries in the table below are examples of the same name displayed in several different ways and the correct entry displays it in its normalized state.

Rule to Follow if the Manufacturer is Already Present within Autodesk Seek:

- The Manufacturer in the file must match exactly with the Manufacturer already present within Autodesk Seek.

Rules to Follow if the Manufacturer is Not Already Present within Autodesk Seek:

- Must be title-cased.
- Single spacing.
- Provide the fullest name possible.
- Must be normalized so similar forms are condensed to one unique form, as per the Wally Windows example in the table below.
- When the value entered is "Generic" in 3.1, please ensure that "Generic" is entered in this field.
- Required field.

Incorrect Entry	Correct Entry
W-W W-W® Wally Windows Wally Windows®	Wally Windows®

4.2 Mfr Product Number or Family Name

This field is designed to capture the Manufacturer Product/Part Number. This field is also designed to capture the Manufacturer Family Name (or Manufacturer Family Product/Part Number).

Rules to Follow:

- *For products and sub-components, please populate this field with the manufacturer product/part number.*
- *For product families, please populate this field with the family name.*
- *In cases where the family has a product/part number, use the product/part number.*
- *When populating this field with a family name, the content publisher must not cross categories. As an example, it is possible that “Traditional ABC Series” on its own could include doors and windows. Therefore, a suitable entry to differentiate this example would be to populate the field with “Traditional ABC Series Windows” or “Traditional ABC Series Doors” (whichever is applicable but not both).*
- *Required field.*

Examples:

- *FAUC12IPSPCBRS*
- *ABC Series*

4.3 Manufacturer Product Line

A manufacturer-specific text field designed to capture (in a word or two) the designated name/grouping of a line of products.

Rules to Follow:

- *Must be title-cased.*
- *Single spacing.*
- *Provide the fullest name possible.*
- *Must be normalized so similar forms are condensed to one unique form.*

Examples:

- *Traditional Designs®*
- *Contemporary Brass Collection*

5.1 Item Name

A brief, readable, description of the product to differentiate it within a list of similar search results. The Item Name should allow the user to view the most essential product information in a single glance. Also known as Short Description.

Rules to Follow:

- *Must be title-cased.*
- *Can contain product related category specific attributes such as Width, Length, Height, Material...etc.*
- *Recommended that Quantitative UOM's (such as psi, cm...etc) conform to Appendix B.*
- *Recommended that content publisher's adhere to additional rules defined in Section 7.*
- *Maximum character length of the Item Name is 256 characters. The recommended character length is between 40 and 120 characters.*
- *Required field.*

Examples:

- *ABC Series Casement Window, Aluminum or Vinyl Cladding, 10" to 18" Height, 10" to 18" Width*
- *Two Handle Bath Faucet, Lever Handle, Polished Chrome, Brass Body*

5.2 Long Description

This field is meant to capture richer, more fully-detailed information about the product.

Rules to Follow:

- Must be sentence-cased.
- Supports the following html mark-up:
 - Line Break

 - Italics <i>
 - Bold
 - Underline <u>
 - Start of a List Item
 - Numbered List
 - Bulleted List
- Maximum character length of the Long Description is 5000 characters.
- Recommended character length of 250 to 2000 characters.
- Required field.

Example:

- <i>Wally Windows ABC series casement windows</i> glide open and shut with the turn of one easy-to-reach handle, offering uncluttered views with effortless operation. This award winning design meets AAMA/WDMA/CSA 101/I.S.2/A440 standards and is <u>UL Listed</u>.

Features:Polyamide thermal break for excellent thermal performance.Come in a variety of colors and interior finishes.Also available with an fold-away handle that won't interfere with roomside window treatments.

5.3 Product Synonym

An optional field intended to help improve search results in Autodesk Seek. This field should be populated with synonyms (aliases, keywords or tags) that the product may also be known as in the industry, if it's not mentioned in the Long Description or Item Name. The content in this field does not appear in the Autodesk Seek search results or product pages.

Rules to Follow:

- *Populate this field with one or more synonyms (aliases, keywords or tags) that the product may also be known as.*
- *If the content publisher chooses to populate this field, the synonyms used should not exist in the Item Name or Long Description.*
- *Product acronyms and abbreviations are permitted.*
- *Manufacturer name acronyms and abbreviations are permitted.*
- *Use the pipe symbol (|) to delimit multiple values.*

Examples:

- *Bubbler (for a water fountain)*
- *EIFS (for exterior insulation and finish system)*
- *WSHP (for water source heat pump)*
- *WW (for manufacturer Wally Windows)*

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6.1 ADA Compliant

Stands for Americans with Disabilities Act (passed in 1990). Federal legislation that contains several mandates, including the requirement that those persons with disabilities be given the same access to public transportation as the able-bodied community.

This field identifies if the product is ADA Compliant.

Rules to Follow:

- *This field should be populated using one of the valid values.*

Valid Values:

- Yes
- No

6.2 Industry Standards

This field identifies the relevant industry standards applicable to the product. This also includes building codes and safety certification organizations.

Rules to Follow:

- *Please provide a valid industry standard code or listing.*
- *Use the pipe symbol (|) to delimit multiple values (see examples).*

Examples:

- *UL Listed*
- *cUL Listed*
- *UL Listed | cUL Listed*
- *AAMA/WDMA/CSA 101/I.S.2/A440 | UL Listed*
- *ANSI/ASME A112.18.1 | CSA B125 | IAPMO Listed | CSA Certified | ICC/ANSI A117.1/ADA*
- *CSA | ISO | ANSI*
- *ASME A112.19.2 for Vitreous China Fixtures | CAN/CSA International B45*
- *ETL/cETL | LonMark 3.3 , ARI | Energy Star*

7.1 Link - Primary Full Image: URL

This field captures a link to the primary full image of the product. This is the image that is displayed when the user first views the Item Details page for a product. This image will also be used to create the thumbnail image for the product that appears on the Search Results page after the user has conducted a search. The image provided by the content publisher should have high quality/high resolution in the smallest file size possible.

Rules to Follow:

- *Provide a single URL link that points to a valid image file.*
- *If a primary image URL is not available, then the manufacturer may submit the image file to Autodesk. Populate the Product Workbook with the image filename. Autodesk will host the image file and update the Product Workbook with the URL.*
- *Should be a color photograph of the actual product.*
- *White background.*
- *White products should be shown against a light grey background.*
- *Product should fill most of the image.*
- *Swatches should fill the image.*
- *Image file size should be less than 1 MB (smallest file size recommended).*
- *Required size: 256 x 256 pixels (high quality/high resolution recommended).*
- *Required field.*

Example:

- *<http://wallywindows.com/images/ABC Series Casement Window Open.jpg>*

7.2 Link - Secondary Full Image(s): URL

Secondary images are not displayed in Autodesk Seek today. . This field is meant to capture one or more links to secondary full images of the product. These additional images may be included to show the product in differing colors or materials, to show different views of the product or to show the product in application. The image provided by the content publisher should have high quality/high resolution in the smallest file size possible.

Rules to Follow:

- Provide URL link(s) that point to valid image file(s).
- If secondary image file URL link(s) are not available, then the manufacturer may submit the image file(s) to Autodesk. Populate the Product Workbook with the image filename. Autodesk will host the image file and update the Product Workbook with the URL.
- Should pertain to the product.
- Use the pipe symbol (|) to delimit multiple image links (see second example).
- White background.
- White products should be shown against a light grey background.
- Product should fill most of the image.
- Swatches should fill the image.
- Image file size should be less than 1 MB.
- Required size: 256 x 256 pixels.

Example:

- <http://www.wallywindows.com/ABC Series Casement Window Interior View.jpg>
- <http://www.wallywindows.com/ABC Series Casement Window Interior View.jpg> | <http://www.wallywindows.com/ABC Series Casement Window Exterior View.jpg>

[Return to Quick Reference Table](#)

7.2.1 Link - Secondary Full Image(s): Caption

A brief caption for the secondary full image(s), indicating the type of information the image contains.

Rules to Follow:

- *Must be title-cased.*
- *Multiple captions must be in the same successive order as the secondary full images.*
- *Use the pipe symbol (|) to delimit multiple image links.*
- *Recommended character length of 30-40 characters.*
- *Required when one or more secondary images are provided.*

Example:

- *ABC Series Casement Window Interior View*
- *ABC Series Casement Window Interior View | ABC Series Casement Window Exterior View*

8.1 Link - Mfr Logo

A link to an image file (example jpg, gif, etc) representing the manufacturer's logo.

Rules to Follow:

- Provide a URL link that points to the manufacturer's logo.
- If a manufacturer logo image file URL link is not available, then the manufacturer may submit the image file to Autodesk. Populate the Product Workbook with the image filename. Autodesk will host the image file and update the Product Workbook with the URL.
- Jpg image preferred.
- Recommended logo size: 120 x 64 pixels.
- Required field.

Examples:

- <http://www.wallywindows.com/Wally Windows.jpg>
- <http://www.wallywindows.com/Wally Windows.gif>

8.2 Link - Mfr Webpage: URL

A link to the manufacturer's home page.

Rules to Follow:

- *Provide URL link that points to the manufacturer's home page.*
- *Required field.*

Examples:

- *<http://wallywindows.com>*

8.3 Link - Product Webpage: URL

A link to a web page containing information about the product.

Rules to Follow:

- *Provide URL link that points to a valid web page about the product.*
- *Required field.*

Example:

- *<http://www.wallywindows.com/windows/ABCSeries.htm>*

9.1 Link - Attachment: URL

A link to a downloadable attachment, either a document containing additional product information or a design file (a drawing). This section details the information needed to add downloadable attachments to the item in Autodesk Seek. In the Product Workbook, there is a separate tab called "Attachments" containing this field for data entry.

Rules to Follow:

- Provide a URL link(s) that points to a valid document or design file hosted on the manufacturer site.
- If document/design file(s) are not hosted on the manufacturer server, then the manufacturer may submit them to Autodesk. Populate the Product Workbook with the document/design file filename only (see screenshot row 4). Autodesk will upload all the document/design files to a server and update the Product Workbook with the URL.
- Multiple document/design files may be included by populating the URL links in consecutive rows under the Link - Attachment: URL heading, one entry per row. The ID field is the key, as this must correspond to the ID on the Product Details tab in the Product Workbook for each entry.
- ZIP files are required for RFA/RVT plus TXT or CSV files (type catalogs), DWG plus XML files or DWG plus TXT files. Related files should have the same file name.
- To be considered BIM Ready for the Architecture, Engineering and Construction (AEC) market, the link must be a 3D RFA design file. (see [Section 2: Inclusion Levels](#)).
- Refer to the [Revit Model Style Guide](#), section 2.3, for the RFA filename format.
- Required field.

Examples:

	A	B	C	D	E
1	ID	Link - Attachment: URL	Link - Attachment: Title	Link - Attachment: Type	Link - Attachment: Source Application and Version
2	Wally Windows - ABC Series	http://www.wallywindows.com/Casement Window - ABC Series - Installation Instructions.pdf	Casement Window - ABC Series - Installation Instructions	Installation Instructions	Adobe Acrobat
3	Wally Windows - ABC Series	http://www.wallywindows.com/Casement Window - ABC Series - Product Brochure.pdf	Casement Window - ABC Series - Product Brochure	Product Brochure	Adobe Acrobat
4	Wally Windows - ABC Series	http://www.wallywindows.com/Casement Window - ABC Series - Specifications.doc	Casement Window - ABC Series - Specifications	3-Part Specification	MS Word
5	Wally Windows - ABC Series	http://www.wallywindows.com/Casement_Window_ABC_Series.dwf	ABC Series Casement Window - Elevation	2D Design File	Autodesk Design Review
6	Wally Windows - ABC Series	http://www.wallywindows.com/Casement_Window_ABC_Series.dwg	ABC Series Casement Window - Elevation	2D Design File	AutoCAD Architecture 2009
7	Wally Windows - ABC Series	http://www.wallywindows.com/Casement_Window_ABC_Series.dxf	ABC Series Casement Window - Elevation	2D Design File	AutoCAD Architecture 2009
8	Wally Windows - ABC Series	http://www.wallywindows.com/Wally_Windows_-_Casement_Window_-_ABC_Series.rfa	ABC Series Casement Window	3D Design File	Revit Architecture 2009
9	Wally Windows - ABC Series	http://www.wallywindows.com/Wally_Windows_-_Casement_Window_-_ABC_Series.txt	RFA Type Catalog	Design File	Revit Architecture 2009
10	Wally Windows - ABC Series	http://www.wallywindows.com/Wally_Windows_-_Casement_Window_-_ABC_Series.zip	ABC Series Casement Window	3D Design File	Revit Architecture 2009
11	TooMany Tiles - TLE4567	http://www.wallywindows.com/TLE4567 Texture Map.mlib	Revit Material Library	Design File	Revit
12	Bright Lighting - MBH1234	http://www.bright-lighting.com/MBH1234.ies	IES Photometry - MBH1234	Design File	

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9.2 Link - Attachment: Title

A text field that briefly describes the linked downloadable attachment. In the Product Workbook, there is a separate tab called "Attachments" containing this field for data entry.

Rules to Follow:

- For RFA's, use the RFA file name as the title. For all other design file types, use the title found within the design file. If title cannot be found within design file, use file name (if it is meaningful) or use the following format to create your own title: <Descriptor> - <View> (see screenshot below rows 5 to 7). View is optional but recommended.
- For documents, use the title from the document or use the document title from the manufacturer web page.
- Must be title-cased.
- Recommended character length of 40-60 characters.
- Exceptions (refer to yellow highlights in the screenshot below):
 - For RFA type catalogs (".txt" or ".csv") always populate Title with: RFA Type Catalog.
 - ↳ When multiple RFA type catalogs exist on a single product page, please append the associated RFA title before 'RFA Type Catalog', example: ABC Series Casement Window - RFA Type Catalog
 - For Revit material libraries (".mlib") always populate Title with: Revit Material Library.
 - For photometry files (".ies") always populate Title with: IES Photometry - <filename>.
- Required field.

Examples:

ID	Link - Attachment: URL	Link - Attachment: Title	Link - Attachment: Type	Link - Attachment: Source Application and Version
2	http://www.wallywindows.com/Casement Window - ABC Series - Installation Instructions.pdf	Casement Window - ABC Series - Installation Instructions	Installation Instructions	Adobe Acrobat
3	http://www.wallywindows.com/Casement Window - ABC Series - Product Brochure.pdf	Casement Window - ABC Series - Product Brochure	Product Brochure	Adobe Acrobat
4	http://www.wallywindows.com/Casement Window - ABC Series - Specifications.doc	Casement Window - ABC Series - Specifications	3-Part Specification	MS Word
5	http://www.wallywindows.com/Casement_Window_ABC_Series.dwf	ABC Series Casement Window - Elevation	2D Design File	Autodesk Design Review
6	http://www.wallywindows.com/Casement_Window_ABC_Series.dwg	ABC Series Casement Window - Elevation	2D Design File	AutoCAD Architecture 2009
7	http://www.wallywindows.com/Casement_Window_ABC_Series.dxf	ABC Series Casement Window - Elevation	2D Design File	AutoCAD Architecture 2009
8	http://www.wallywindows.com/Wally_Windows_-_Casement_Window_-_ABC_Series.rfa	ABC Series Casement Window	3D Design File	Revit Architecture 2009
9	http://www.wallywindows.com/Wally_Windows_-_Casement_Window_-_ABC_Series.txt	RFA Type Catalog	Design File	Revit Architecture 2009
10	http://www.wallywindows.com/Wally_Windows_-_Casement_Window_-_ABC_Series.zip	ABC Series Casement Window	3D Design File	Revit Architecture 2009
11	http://www.wallywindows.com/TLE4567 Texture Map.mlib	Revit Material Library	Design File	Revit
12	http://www.bright-lighting.com/MBH1234.ies	IES Photometry - MBH1234	Design File	

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9.3 Link - Attachment: Type

A fixed text field (pick list) describing the type of the downloadable attachment. In the Product Workbook, there is a separate tab called “Attachments” containing this field for data entry.

Rules to Follow:

- This field should be populated using one of the valid values.
- If the required document type does not exist in the valid values listed below, only then can the content publisher create their own type.
 - Text entries must be title-cased and spell checked
 - Text entries have a recommended character length of 30-40 characters or less.
- Exceptions (refer to yellow highlights in the screenshot below): when an RFA type catalog (“.txt” or “.csv”), IES photometry (“.ies”) or Revit material library (“.mlib”) file exists, always populate Type with Design File.
- Required field.

Valid Values:

- 3-Part Specification
- Installation Instructions
- Maintenance and Installation Instructions
- Parts and Accessories Information
- Software Support Guide
- Design File
- Technical Data Sheet
- MSDS
- Product Support Information
- Operating Instructions
- 2D Design File
- Product Brochure
- Warranty Information
- Maintenance Instructions
- Product Catalog
- 3D Design File

ID	Link - Attachment: URL	Link - Attachment: Title	Link - Attachment: Type	Link - Attachment: Source Application and Version
2	http://www.wallywindows.com/Casement Window - ABC Series - Installation Instructions.pdf	Casement Window - ABC Series - Installation Instructions	Installation Instructions	Adobe Acrobat
3	http://www.wallywindows.com/Casement Window - ABC Series - Product Brochure.pdf	Casement Window - ABC Series - Product Brochure	Product Brochure	Adobe Acrobat
4	http://www.wallywindows.com/Casement Window - ABC Series - Specifications.doc	Casement Window - ABC Series - Specifications	3-Part Specification	MS Word
5	http://www.wallywindows.com/Casement_Window_ABC_Series.dwf	ABC Series Casement Window - Elevation	2D Design File	Autodesk Design Review
6	http://www.wallywindows.com/Casement_Window_ABC_Series.dwg	ABC Series Casement Window - Elevation	2D Design File	AutoCAD Architecture 2009
7	http://www.wallywindows.com/Casement_Window_ABC_Series.dxf	ABC Series Casement Window - Elevation	2D Design File	AutoCAD Architecture 2009
8	http://www.wallywindows.com/Wally_Windows_-_Casement_Window_-_ABC_Series.rfa	ABC Series Casement Window	3D Design File	Revit Architecture 2009
9	http://www.wallywindows.com/Wally_Windows_-_Casement_Window_-_ABC_Series.txt	RFA Type Catalog	Design File	Revit Architecture 2009
10	http://www.wallywindows.com/Wally_Windows_-_Casement_Window_-_ABC_Series.zip	ABC Series Casement Window	3D Design File	Revit Architecture 2009
11	TooManyTiles - TLE4567 http://www.wallywindows.com/TLE4567 Texture Map.mlib	Revit Material Library	Design File	Revit
12	Bright Lighting - MBH1234 http://www.bright-lighting.com/MBH1234.ies	IES Photometry - MBH1234	Design File	

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9.4 Link - Attachment: Source Application and Version

Defines the application and version used to create the linked downloadable attachment. In the Product Workbook, there is a separate tab called "Attachments" containing this field for data entry.

Rules to Follow:

- Use application as it appears in the table below. Content Publisher to append version to end of application name.
- The application is required, the version is optional.
- Exceptions (refer to screenshot below):
 - For RFA type catalogs (".txt" or ".csv") always populate Application with: Revit (try to include version whenever possible).
 - For Revit material libraries (".mlib") always populate Application with: Revit.
 - For photometry files (".ies") always leave Application blank.
- Required field.

Examples:

Documents		Design Files			
File Extension	Application	File Extension	Application	File Extension	Application
doc, docx	MS Word	3ds, max	Autodesk 3ds Max	dgn	Bentley Microstation
pdf	Adobe Acrobat	dwf	Autodesk Design Review	gsm	Graphisoft ArchiCAD
wpd	WordPerfect	dwg, dxf	AutoCAD	ies	
xls, xlsx	MS Excel	mb	Autodesk Maya	mcd	Vectorworks
		rfa, rvg, rvt, mlib, txt, csv	Revit	skp, skm	Google SketchUp
				xfr	Xfrog

	A	B	C	D	E
1	ID	Link - Attachment: URL	Link - Attachment: Title	Link - Attachment: Type	Link - Attachment: Source Application and Version
2	Wally Windows - ABC Series	http://www.wallywindows.com/Casement Window - ABC Series - Installation Instructions.pdf	Casement Window - ABC Series - Installation Instructions	Installation Instructions	Adobe Acrobat
3	Wally Windows - ABC Series	http://www.wallywindows.com/Casement Window - ABC Series - Product Brochure.pdf	Casement Window - ABC Series - Product Brochure	Product Brochure	Adobe Acrobat
4	Wally Windows - ABC Series	http://www.wallywindows.com/Casement Window - ABC Series - Specifications.doc	Casement Window - ABC Series - Specifications	3-Part Specification	MS Word
5	Wally Windows - ABC Series	http://www.wallywindows.com/Casement_Window_ABC_Series.dwf	ABC Series Casement Window - Elevation	2D Design File	Autodesk Design Review
6	Wally Windows - ABC Series	http://www.wallywindows.com/Casement_Window_ABC_Series.dwg	ABC Series Casement Window - Elevation	2D Design File	AutoCAD Architecture 2009
7	Wally Windows - ABC Series	http://www.wallywindows.com/Casement_Window_ABC_Series.dxf	ABC Series Casement Window - Elevation	2D Design File	AutoCAD Architecture 2009
8	Wally Windows - ABC Series	http://www.wallywindows.com/Wally_Windows_-_Casement_Window_-_ABC_Series.rfa	ABC Series Casement Window	3D Design File	Revit Architecture 2009
9	Wally Windows - ABC Series	http://www.wallywindows.com/Wally_Windows_-_Casement_Window_-_ABC_Series.txt	RFA Type Catalog	Design File	Revit Architecture 2009
10	Wally Windows - ABC Series	http://www.wallywindows.com/Wally_Windows_-_Casement_Window_-_ABC_Series.zip	ABC Series Casement Window	3D Design File	Revit Architecture 2009
11	TooMany Tiles - TLE4567	http://www.wallywindows.com/TLE4567 Texture Map.mlib	Revit Material Library	Design File	Revit
12	Bright Lighting - MBH1234	http://www.bright-lighting.com/MBH1234.ies	IES Photometry - MBH1234	Design File	

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Section 6 - Category-Specific Attributes

Section 4 and 5 outlined the Common Attributes used to capture information on items included in Autodesk Seek. That information, such as descriptive information or a product picture, was common across all the items in Autodesk Seek. The other type of information captured focuses on the unique attributes or characteristics of each specific item, such as its length, width, wattage or voltage.

Items in Autodesk Seek get placed into categories (defined by the common attributes "Category Schema", "Schema Code" and "Schema Title" outlined in Section 4 and 5). Items within each category will have certain attributes in common; for example, windows or doors can all be expected to have data for dimensions, materials and colors or finishes so a window or door category could include those attributes. The attributes that get assigned to a category are meant to capture key product information for the items within that category. As these attributes are dependent on a category they are referred to as *category-specific* attributes.

Why is it important to include this information? There are three main reasons why it is important to include as much category-specific information as possible about an item in Autodesk Seek.

- It provides Autodesk Seek users with easy access to the most useful and relevant product information
- Product pages with category-specific attributes are returned higher in search results
- Populating category-specific attributes will ensure your products appear in the search filters

Where do these category-specific attributes come from? Just as OmniClass 1.0 Table 23 is Autodesk's preferred schema, it is preferred that content publishers use the attributes outlined in [OmniClass 1.0 Table 49](#). In Table 49, attributes are referred to as "properties". Where a required attribute cannot be found in Table 49, content publishers may still include the attribute - these additional attributes will be submitted to CSI for review and possible inclusion in Table 49.

How are category-specific attributes included in data submitted to Autodesk Seek? The first step is to group items with the same Schema Code and Schema Title in the Product Workbook together on the Product Details worksheet. The category-specific attribute information is then appended to the very last column of the Product Details worksheet in the Product Workbook. Columns of data appearing to the right of the "Link - Product Webpage: URL" column (the ones shaded in green below) are considered category-specific attributes:

	B	C	D	Z	AA	AB	AC	AD	AE	AF	AG
1	Category Schema	Schema Code	Schema Title	Link - Product Webpage: URL	Air Infiltration	Cladding	Color	Depth	Design Pressure	Height	Interior Finish
2	std:oc1	23.30.20.17.21.14	Casement Windows	http://www.wallywindows.com	0.01 cfm/sq ft	Vinyl Aluminum	White Sand	3-1/4"	40	10" 12"	Pine Oak Maple
3	std:oc1	23.30.20.17.21.14	Casement Windows	http://www.wallywindows.com	0.01 cfm/sq ft	Aluminum	Pebble Gray	3-1/4"	40	14" 16"	Pine Oak Maple
4	std:oc1	23.30.20.17.21.14	Casement Windows	http://www.wallywindows.com	0.02 cfm/sq ft	Vinyl	Cadet Gray	3-1/4"	30	18" 20"	Pine Oak Maple
5											
6	Category Schema	Schema Code	Schema Title	Link - Product Webpage: URL	Connection Size	Connection Type	Handle Type	Height	Integral Finish	Material	Method of Operation
7	std:oc1	23.45.55.17	Mixing Faucets	http://www.franklinfaucets.com	1/2"	IPS	Lever	34"	Polished Chrome	Brass	Two Handle
8	std:oc1	23.45.55.17	Mixing Faucets	http://www.franklinfaucets.com	1/2"	IPS	Cross	40"	Brushed Nickel	Brass	Two Handle
9	std:oc1	23.45.55.17	Mixing Faucets	http://www.franklinfaucets.com	3/8"	Compression	Lever	11"	Polished Nickel	Brass	Two Handle

Autodesk® Seek Metadata Style Guide Version 1.0

The category-specific attribute information included in the Product Workbook will appear on the product's page in Autodesk Seek in a table labeled "Types/Specifications", highlighted below:

[Home](#) >> [600 Series Casement Window, Vinyl Cladding, 18" to 26" Height, 18" to 26" Width](#)

600 Series Casement Window, Vinyl Cladding, 18" to 26" Height, 18" to 26" Width



Description [View at source](#)

Wally Windows 600 series casement windows glide open and shut with the turn of one easy-to-reach handle, offering uncluttered views with effortless operation. Features a polyamide thermal break for excellent thermal performance, these windows come in a variety of colors and interior finishes.

[More](#)

Types/Specifications	
ADA Compliant	No
Air Infiltration	0.02 cfm/sq ft
Cladding	Vinyl
Color	Cadet Gray , Ebony , Arctic White , Cascade Blue , Cobalt Blue , Hampton Sage , Sherwood Green , Wineberry
Depth	3.25
Design Pressure	30
Height	18" , 20" , 22" , 24" , 26"
Industry Standards	AAMA/WDMA/CSA 101/I.S.2/A440 , UL Listed
Interior Finish	Pine , Oak , Maple
Manufacturer Product Line	Designer Series
Solar Heat Gain Coefficient	0.32
Sound Transmission Class	24
Type of Glazing	Single , Double
U Value	0.35
Visible Transmittance	0.51
Width	18" , 20" , 22" , 24" , 26"
Window Style	Casement

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<input type="checkbox"/>	1 DXF file	Select All
<input type="checkbox"/>	2 PDF files	Select All
<input type="checkbox"/>	1 DOC file	Select All
<input type="checkbox"/>	1 TXT file	Select All
<input type="checkbox"/>	1 ZIP file	Select All

The following screenshot highlights a specific item from the Product Workbook and illustrates exactly how its category-specific attributes appear in the Types/Specifications table on the corresponding product webpage in Autodesk Seek:

	C	D	AA	AB	AC	AD	AE	AF	AG	AH	AI	AJ	AK
1	Schema Code	Schema Title	Air Infiltration	Cladding	Color	Depth	Design Pressure	Height	Interior Finish	Solar Heat Gain	Sound Transmi	Type of Glazing	U Value
2	23.30.20.17.21.14	Casement Windows	0.01 cfm/sq ft	Vinyl Aluminum	White Sand	3-1/4"	40	10" 12"	Pine Oak Maple	0.31	26	Single Double	0.31
3	23.30.20.17.21.14	Casement Windows	0.01 cfm/sq ft	Aluminum	Pebble Gray	3-1/4"	40	14" 16"	Pine Oak Maple	0.29	26	Single Double	0.32
4	23.30.20.17.21.14	Casement Windows	0.02 cfm/sq ft	Vinyl	Cadet Gray	3-1/4"	30	18" 20"	Pine Oak Maple	0.32	24	Single Double	0.35
5													
6	Schema Code	Schema Title	Connection Size	Connection Type	Handle Type	Height	Integral Finish	Material	Method of Operation	Mount Type	Spout Type	Valve Type	Width
7	23.45.55.17	Mixing Faucets	1/2"	IPS	Lever	34"	Polished Chrome	Brass	Two Handle	Deck Mount	Channel Spout	Ceramic Valve	2-3/4"
8	23.45.55.17	Mixing Faucets	1/2"	IPS	Cross	40"	Brushed Nickel	Brass	Two Handle	Deck Mount	Channel Spout	Ceramic Valve	2-3/4"
9	23.45.55.17	Mixing Faucets	3/8"	Compression	Lever	11"	Polished Nickel	Brass	Two Handle	Deck Mount	Channel Spout	Ceramic Valve	2-3/16"
10													
11													

Types/Specifications

ADA Compliant	No
Connection Size	3/8"
Connection Type	Compression
Handle Type	Lever
Height	11"
Industry Standards	ANSI/ASME A112.18.1 , CSA B125 , IAPMO Listed , CSA Certified , ICC/ANSI A117.1/ADA
Integral Finish	Polished Nickel
Manufacturer Product Line	Contemporary Brass Collection
Material	Brass
Method of Operation	Two Handle
Mount Type	Deck Mount
Spout Type	Channel Spout
Valve Type	Ceramic Valve
Width	2-3/16"

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Section 7 - Cleansing Rules

Rule #1: Product Roll-Up - It is preferred that products are rolled up into families whenever possible. For example, a manufacturer of windows may have several different product lines. Within each product line there are many different dimensional options. However, the core attributes of the windows in the product line are the same. Instead of having many discrete products in Autodesk Seek that are very similar, it is preferred to have only a few families that are distinctly different.

Rule #2: Attribute Value/Quantitative UOM - There must be a single space between the attribute value and quantitative UOM. The exception to the single space rule being inches and feet. There should be no space between the attribute value and UOM which are represented by ' for feet and " for inch. All quantitative UOM's must adhere to the pre-defined UOM list (Appendix B).

Incorrect Entry	Correct Entry
23 centimeters	23 cm
14m	14 m
56ft	56'

Rule #3: Fractions - Fractions must appear as a whole number followed by dash (-) followed by the fraction. Decimal conversions to fractions are recommended.

Incorrect Entry	Correct Entry
7 ½	7-1/2
71/2	7-1/2
3 3/4"	3-3/4"

Rule#4: Decimals - Decimals must have a zero before the decimal with decimals smaller than 1. Easily converted decimals should be changed to fractions (example in 2nd row below)

Incorrect Entry	Correct Entry
.0003456"	0.0003456"
1.5'	1-1/2'
.45326789cm	0.45326789 cm

Rule #5: Feet/Inches

Incorrect Entry	Correct Entry
15ft 11inches	15' 11"
132 ft 7 3/4 in	132' 7-3/4"

Rule #6: Dimensions - Dimensions must be populated as per the examples below. The only exception is when there are category specific attributes that exist where the dimensions can be placed individually. In the 3rd example below, if the category had Height, Width and Depth attributes then '12"' would go into Height, '14"' into Width and '6"' into Depth.

Incorrect Entry	Correct Entry
12inx12 in	12" x 12"
2x2 metre	2 m x 2 m
12Hx14Wx6D inches	12" H x 14" W x 6" D

Rule #7: Ranges

Incorrect Entry	Correct Entry
150-250psi	150 psi to 250 psi
1 1/2 - 2 inch	1-1/2" to 2"
-40 deg F - -10 deg F	-40 deg F to -10 deg F

Rule #8: General Rules for category specific attributes:

- Text must be title-cased.
- UOM's must adhere to UOM list in Appendix B.
- Must be spell checked.
- Must be single spaced.
- Numeric values must not contain a comma (i.e. 1000' is correct, not 1,000')

Rule #9: Multiple values in any field (common or category specific) must be pipe (|) delimited. On the keyboard, a pipe appears as | and is normally located just above Enter (note, it appears as | in the document).

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Section 8 - Customer Support

If you have questions about the Metadata Content Style Guide or the Product Workbook, please contact either:

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Ryan Nutbrown

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If you have questions about the schemas/taxonomies, please contact:

Grant Goodfellow

Grant.Goodfellow@autodesk.com

Phone: 416-901-0339

If you have questions about Autodesk Seek, please use one of the following three options:

1. Access the Autodesk Seek FAQ's at <http://cs.labs.autodesk.com/faq.htm>
2. Access the Autodesk Seek discussion group at <http://discussion.autodesk.com/forum.jspa?forumID=334>
3. Email the Autodesk Seek team at labs.contentsearch@autodesk.com

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Appendix A: PartAtom

Reference Number	Common Attribute	PartAtom Information
1.0	ID	Corresponding PartAtom Element: <id>
2.1	Category Schema	Corresponding PartAtom Element: <scheme> element within the <category> element
2.2	Schema Code	Corresponding PartAtom Element: <term> element within the <category> element
2.3	Schema Title	Corresponding PartAtom Element: <label> element within the <category> element
3.1	Manufactured or Generic	Corresponding PartAtom Element: type attribute of <Family>, <Part>, or <Sub-Component> PartAtom Element Example: <Part type="generic"> OR <Sub-Component type="manuf">
3.2	Family or Product or Sub-Component	Corresponding PartAtom Element: <Family>, <Part>, or <Sub-Component>
4.1	Manufacturer	Corresponding PartAtom Element: <manuf>
4.2	Mfr Product Number or Family Name	Corresponding PartAtom Element: <partno> element with rel attribute set to manuf
4.3	Manufacturer Product Line	Corresponding PartAtom Element: sub-element of <part> - <Manufacturer_Product_Line>
5.1	Item Name	Corresponding PartAtom Element: <title> element within the <entry> element
5.2	Long Description	Corresponding PartAtom Element: <summary> element within the <entry> element
6.1	ADA Compliant	Corresponding PartAtom Element: sub-element of <part> - <ADA_Compliant>
6.2	Industry Standards	Corresponding PartAtom Element: sub-element of <part> - <Industry_Standards>
7.1	Link - Primary Full Image: URL	Corresponding PartAtom Element: href attribute of the <link> element with the rel attribute set to thumb
7.2	Link - Secondary Full Image(s): URL	Currently not Available in Autodesk Seek and not in the PartAtom XML
7.2.1	Link - Secondary Full Image(s): Caption	Currently not Available in Autodesk Seek and not in the PartAtom XML
8.1	Link - Mfr Logo	Corresponding PartAtom Element: href attribute of the <link> element with the rel attribute set to manuflogo PartAtom Element Example: <link href="http://www.wallywindows.com/WallyWindows.jpg" rel="manuflogo"/>
8.2	Link - Mfr Webpage: URL	Corresponding PartAtom Element: href attribute of the <link> element with rel attribute set to manufweb PartAtom Element Example: <link href="http://wallywindows.com" rel="manufweb"/>
8.3	Link - Product Webpage: URL	Corresponding PartAtom Element: href attribute of the <link> element with rel attribute set to web PartAtom Element Example: <link href="http://wallywindows.com/windows/ABCSeries.htm" rel="web"/>

Reference Number	Common Attribute	PartAtom Information
9.1	Link - Attachment: URL	<p>Corresponding PartAtom Element (Documents): href attribute of the <link> element with rel attribute set to document type</p> <p>PartAtom Element Example (Documents): <link href="http://wallywindows.com/Casement Window - ABC Series - Specifications.pdf" rel="product brochure"></p> <p>Corresponding PartAtom Element (Design Files): href attribute of the <link> element with rel attribute set to either design-2d or design-3d</p> <p>PartAtom Element Example (Design Files): <link href="http://www.wallywindows.com/Wally_Windows_-_Casement_Window_-_ABC_Series.rfa" rel="design-3d"></p>
9.2	Link - Attachment: Title	<p>Corresponding PartAtom Element (Documents): <title> element within the <design-file> element within the <link> element with rel set to document type</p> <p>PartAtom Element Example (Documents):</p> <pre><link href="http://wallywindows.com/specs/WIN1509-X.pdf" rel="product brochure"> <A:design-file> <A:title>Casement Windows Product Brochure</A:title> </A:design-file> </link></pre> <p>Corresponding PartAtom Element (Design Files): <title> element within the <design-file> element within the <link> element with rel attribute set to either design-2d or design-3d</p> <p>PartAtom Element Example (Design Files):</p> <pre><link href="http://wallywindows.com/designs/dwg/WIN1509-X.dwg"rel="design-2d"> <A:design-file> <A:title>2D AutoCAD Drawing Detail</A:title> </A:design-file> </link></pre>
9.3	Link - Attachment: Type	<p>Corresponding PartAtom Element (Documents): rel attribute of the <link> element with rel attribute set to document type</p> <p>PartAtom Element Example (Documents): <link href="http://wallywindows.com/specs/WIN1509-X.pdf" rel="product brochure"></p> <p>Corresponding PartAtom Element (Design Files): rel attribute of the <link> element with rel attribute set to either design-2d or design-3d</p> <p>PartAtom Element Example (Design Files): <link href="http://wallywindows.com/designs/dwg/WIN1509-X.dwg"rel="design-2d"></p>

Reference Number	Common Attribute	PartAtom Information
9.4	Link - Attachment: Source Application and Version	<p>Corresponding PartAtom Element (Documents): <i><product> element within the <design-file> element within the <link> element with rel set to document type</i></p> <p>PartAtom Element Example (Documents):</p> <pre><link href="http://wallywindows.com/specs/WIN1509-X.pdf" rel="product brochure"> <A:design-file> <A:product>Adobe Acrobat 6</A:product> </A:design-file> </link></pre> <p>Corresponding PartAtom Element (Design Files): <i><product> element within the <design-file> element within the <link> element with rel set to either design-2d or design-3d</i></p> <p>PartAtom Element Example (Design Files):</p> <pre><link href="http://wallywindows.com/designs/dwg/WIN1509-X.dwg" rel="design-2d"> <A:design-file> <A:product>AutoCAD 2000</A:product> </A:design-file> </link></pre>

Appendix B: UOM List

Category Specific Attribute and Item Name Abbreviation	Term	Unit Group
cm/sq sec	centimeters per second squared	Acceleration
ft/sq sec	feet per second squared	Acceleration
g	gravity (Earth)	Acceleration
km/hr sec	kilometres per hour second	Acceleration
km/sq sec	kilometres per second squared	Acceleration
m/sq sec	meters per second squared	Acceleration
mile/sq sec	miles per second squared	Acceleration
mm/sq sec	millimeters per second squared	Acceleration
survey ft/sq sec	survey foot per second squared	Acceleration
cfm/sq ft	cubic feet per minute per square foot	Air Leakage
mmol	millimole	Amount of Substance
mole	mole	Amount of Substance
nmol	nanomole	Amount of Substance
pmol	picomole	Amount of Substance
Mmol	micromole	Amount of Substance
'	minute	Angle
"	second	Angle
centrad	centiradian	Angle
deg	degrees, °	Angle
milliradian	milliradian	Angle
radian	radian	Angle
rev	revolution	Angle
arc min	arcminute	Angular Measure
arc sec	arcsecond	Angular Measure
acre	acres	Area
cmil	circular mil	Area
hectare	hectares	Area

Category Specific Attribute and Item Name Abbreviation	Term	Unit Group
kcmil	kilo circular mil	Area
rood	rood	Area
section	section	Area
sq Å	square angstrom	Area
sq caliber	square caliber	Area
sq cm	square cm	Area
sq fath	square fathom	Area
sq ft	square foot, square ft, square feet, sq ', square '	Area
sq furlong	square furlong	Area
sq in	square inches, square in, square inch, sq. in, sq ", square "	Area
sq km	square kilometer, square km, sq kilometer	Area
sq m	square meter, square m	Area
sq mile	square mile	Area
sq mm	square millimeters	Area
sq yd	square yard, square yd	Area
twp	township	Area
g/sq in	grams/square inch	Area Density
g/sq m	grams/square meter	Area Density
kg/sq m	kilogram/square meter	Area Density
F	farad	Capacitance
kpF	kilopicofarad	Capacitance
mF	millifarad	Capacitance
nF	nanofarad	Capacitance
pF	picofarad	Capacitance
µF	microfarad	Capacitance
b	bit	Computer Storage
B	byte	Computer Storage
Gb	gigabit	Computer Storage

Category Specific Attribute and Item Name Abbreviation	Term	Unit Group
GB	gigabyte	Computer Storage
GiB	gibibyte	Computer Storage
Kb	kilobit	Computer Storage
KB	kilobyte	Computer Storage
KiB	kibibyte	Computer Storage
Mb	megabit	Computer Storage
MB	megabyte	Computer Storage
MiB	mebibyte	Computer Storage
TB	terabyte	Computer Storage
TiB	tebibyte	Computer Storage
ng/μL	nanograms per microliter	Concentration
ng/dL	nanograms per deciliter	Concentration
ng/L	nanograms per liter	Concentration
ng/mL	nanograms per milliliter	Concentration
A	amperes	Current
A AC	amperes alternating current	Current
A DC	amperes direct current	Current
CCA	cold cranking amps	Current
kA	kiloamp	Current
mA	milliamps	Current
nA	nanoamp	Current
pA	picoamp	Current
μA	microamp	Current
baud	baud	Data Transmission Rate
bps	bits per second	Data Transmission Rate
Bps	bytes per second	Data Transmission Rate
kbaud	kilobaud	Data Transmission Rate
Kbps	kilobits per second	Data Transmission Rate
KBps	kilobytes per second	Data Transmission Rate

Category Specific Attribute and Item Name Abbreviation	Term	Unit Group
Mbaud	megabaud	Data Transmission Rate
Mbps	megabit/sec	Data Transmission Rate
MBps	megabyte/second	Data Transmission Rate
g/L	grams per liter	Density
kg/L	kilograms per liter	Density
lb/gal	pounds per gallon	Density
mg/mL	milligrams per milliliter	Density
oz/gal	ounces per gallon	Density
µg/mL	micrograms per milliliter	Density
cP	centipoise	Dynamic Viscosity
dyn sec/sq cm	dyne second per square centimeter	Dynamic Viscosity
lb sec/sq in	pound force seconds per square inch	Dynamic Viscosity
lb/ft hr	pound per foot hour	Dynamic Viscosity
lb/ft sec	pound per foot second	Dynamic Viscosity
lb/in sec	pound per inch second	Dynamic Viscosity
N sec/sq m	Newton second per square meter	Dynamic Viscosity
P	poise	Dynamic Viscosity
slug/ft sec	slugs per foot second	Dynamic Viscosity
Ahr	ampere hours	Electric Charge
mAhr	milliampere hours	Electric Charge
Btu	British Thermal Unit	Energy or Work
cal	calorie	Energy or Work
erg	erg	Energy or Work
eV	electronvolt	Energy or Work
J	joule	Energy or Work
kBtu/hr	thousands BTU per hour, MBH	Energy or Work
kcal	kilocalorie	Energy or Work
keV	kilo electron volt	Energy or Work
kW hr	kilowatt hour	Energy or Work

Category Specific Attribute and Item Name Abbreviation	Term	Unit Group
kW min	kilowatt minute	Energy or Work
kW sec	kilowatt second	Energy or Work
MeV	mega electron volt	Energy or Work
flash/min	flash per minute	Flash Frequency
flash/sec	flash per second	Flash Frequency
crinal		Force
kipf	kilopound force	Force
kN	kilonewton	Force
lbf	pound force	Force
N	newton	Force
slug	slug force	Force
GHz	gigahertz	Frequency
Hz	hertz	Frequency
kHz	kilohertz	Frequency
MHz	megahertz	Frequency
THz	terahertz	Frequency
in H ₂ O/100 ft	inches of water per 100 feet	Friction
in Hg/100 ft	inches of mercury per 100 feet	Friction
mm Hg/100 ft	millimeters of mercury per 100 feet	Friction
Pa/m	pascal per meter	Friction
cd/sq ft	candela per square foot	Illuminance
cd/sq m	candela per square meter	Illuminance
fL	footlambert	Illuminance
ft candle	footcandle	Illuminance
lumen/sq cm	lumen per centimeter squared	Illuminance
lux	lux	Illuminance
ph	phot	Illuminance
H	Henry	Inductance
mH	milliHenry	Inductance

Category Specific Attribute and Item Name Abbreviation	Term	Unit Group
nH	nanoHenry	Inductance
μH	microHenry	Inductance
cSt	centistokes	Kinematic Viscosity
sq ft/hr	square foot per hour	Kinematic Viscosity
sq ft/sec	square foot per second	Kinematic Viscosity
sq in/hr	square inch per hour	Kinematic Viscosity
sq in/sec	square inch per second	Kinematic Viscosity
St	stokes	Kinematic Viscosity
'	foot, feet, ft ***see Rule 1 under Section 7 - Cleansing Rules***	Length
"	inch, inches, in ***see Rule 1 under Section 7 - Cleansing Rules***	Length
Å	angstrom	Length
au	astronomical unit	Length
cable	cable	Length
chain	chain	Length
cm	centimeter	Length
cubit	cubit	Length
dam	dekameter	Length
dm	decimeter	Length
fath	fathom	Length
furlong	furlong	Length
hand	hand	Length
km	kilometer	Length
ly	light year	Length
m	meter	Length
mile	mile	Length
mm	millimeter	Length
nm	nanometer	Length
rd	rod	Length

Category Specific Attribute and Item Name Abbreviation	Term	Unit Group
span	span	Length
yd	yard	Length
μ	micron	Length
μin	microinch	Length
μm	micrometer	Length
daN/m	decanewton per meter	Linear Force (also called Surface Tension)
dyn/cm	dynes per centimeter	Linear Force (also called Surface Tension)
erg/sq cm	erg per centimeter squared	Linear Force (also called Surface Tension)
Kip/ft	kilopound per foot	Linear Force (also called Surface Tension)
lbf/ft	pound force per foot	Linear Force (also called Surface Tension)
lbf/in	pound force per inch	Linear Force (also called Surface Tension)
N/m	Newton per meter	Linear Force (also called Surface Tension)
tonne/m	tonne force per meter	Linear Force (also called Surface Tension)
cd	candela	Luminous Intensity
lm	lumen	Luminous Intensity
G	gauss	Magnetic Flux Density
mG	milligauss	Magnetic Flux Density
g/hr	grams per hour	Mass Flow Rate
g/min	grams per minute	Mass Flow Rate
g/sec	grams per second	Mass Flow Rate
kg/hr	kilograms per hour	Mass Flow Rate
kg/min	kilograms per minute	Mass Flow Rate
kg/sec	kilograms per second	Mass Flow Rate
lb/hr	pounds per hour	Mass Flow Rate
lb/min	pounds per minute	Mass Flow Rate

Category Specific Attribute and Item Name Abbreviation	Term	Unit Group
lb/sec	pounds per second	Mass Flow Rate
Da	dalton	Molecular Weight
kDa	kilodalton	Molecular Weight
ppb	parts per billion	Parts Per Unit
ppm	parts per million	Parts Per Unit
Btu/hr	British Thermal Unit per Hour	Power
hp	horsepower	Power
hp (metric)	horsepower (metric)	Power
kcal/h	kilocalories per hour	Power
kVA	kilovolt amperes	Power
kW	kilowatt	Power
MVA	megavolt amperes	Power
mVA	millivolt amperes	Power
MW	megawatt	Power
mW	milliwatt	Power
VA	volt ampere	Power
W	watt	Power
μW	microwatt	Power
kW/sq ft	kilowatt per square foot	Power Density
kW/sq m	kilowatt per square meter	Power Density
W/sq ft	watt per square foot	Power Density
W/sq m	watt per square meter	Power Density
at	atmosphere (metric)	Pressure
atm	atmosphere (standard)	Pressure
bar	bar	Pressure
bar abs	bar absolute	Pressure
bar ga	bar gauge	Pressure
dbar	decibar	Pressure
dyn/sq cm	Dynes per square centimeter	Pressure

Category Specific Attribute and Item Name Abbreviation	Term	Unit Group
in H2O	inches of water	Pressure
in Hg	inches mercury	Pressure
in Wg	inches water gauge	Pressure
kbar	kilobar	Pressure
kg/sq cm	kilograms per square centimeter	Pressure
kg/sq m	kilograms per square meter	Pressure
kg/sq mm	kilograms per square millimeter	Pressure
kPa	kilopascal	Pressure
ksi	kilopounds per square inch	Pressure
mbar	millibar	Pressure
mm Hg	millimeters mercury	Pressure
MPa	megaPascal	Pressure
mPas	milliPascals	Pressure
N/sq m	Newton per sq meter, Newton/square metre, N/m ² ,	Pressure
Pa	pascal	Pressure
psf	pounds per square foot, lb/sq ft, lbf/sq ft	Pressure
psi	pounds per square inch, lb/in ² , lbf/in ²	Pressure
psia	pounds per sq inch (atmosphere)	Pressure
psig	pounds per sq inch (gauge)	Pressure
ton/sq cm	Ton (metric)/sq cm	Pressure
ton/sq ft	Ton (short)/sq ft	Pressure
ton/sq in	Ton (short)/sq in	Pressure
tonne/sq ft	Tonne (long)/sq ft	Pressure
tonne/sq in	Tonne (long)/sq in	Pressure
Torr	torr	Pressure
Gohm	gigohm	Resistance
kohm	kiloohm	Resistance
Mohm	megohm	Resistance
mohm	milliohm	Resistance

Category Specific Attribute and Item Name Abbreviation	Term	Unit Group
ohm	ohm, Ω	Resistance
μ ohm	microohm	Resistance
RPM	revolutions per minute	Rotational Speed
sr	steradian	Solid Angle
cm/sec	centimeters per second	Speed
ft/min	feet per minute	Speed
ft/sec	feet per second	Speed
in/min	inches per minute	Speed
in/sec	inches per second	Speed
km/h	kilometers per hour	Speed
m/min	meters per minute	Speed
m/sec	meters per second	Speed
mm/sec	millimeters per second	Speed
mph	miles per hour	Speed
deg C	degrees Celsius, $^{\circ}\text{C}$	Temperature
deg F	degrees Fahrenheit, $^{\circ}\text{F}$	Temperature
deg K	degrees Kelvin	Temperature
deg R	degrees Rankine	Temperature
deg C/min	degrees Celsius per minute	Temperature Rate
deg F/min	degrees Fahrenheit per minute	Temperature Rate
a	annum	Time
d	day	Time
fortnight	fortnight	Time
hr	hour	Time
min	minute	Time
mo	month	Time
msec	millisecond	Time
nsec	nanosecond	Time
psec	picosecond	Time

Category Specific Attribute and Item Name Abbreviation	Term	Unit Group
sec	seconds	Time
wk	week	Time
yr	year	Time
µsec	microsecond	Time
cm kg	centimeter kilogram	Torque
ft lb	foot pounds	Torque
g cm	gram centimeter	Torque
in lb	inch pound	Torque
in oz	inch ounces	Torque
m kg	meter kilogram	Torque
Ncm	newton centimeter	Torque
Ndam	newton decameter	Torque
Nm	newton meter	Torque
kV	kilovolts	Voltage
mV	millivolts	Voltage
V	volts	Voltage
V AC	volts alternating current (AC)	Voltage
V DC	volts direct current (DC)	Voltage
µV	microvolts	Voltage
bsh	bushel	Volume
cL	centiliter	Volume
cu cm	ccs, cubic centimeter	Volume
cu ft	cubic foot	Volume
cu in	cubic inch	Volume
cu m	cubic meter	Volume
cu mm	cubic millimeter	Volume
cu yd	cubic yard	Volume
cup	cup	Volume
firkin	firkin	Volume

Category Specific Attribute and Item Name Abbreviation	Term	Unit Group
fl dr	fluid dram	Volume
fl oz	fluid ounce, fluid oz, fl ounce	Volume
gal	gallon	Volume
L	liter	Volume
mL	milliliter	Volume
peck	peck	Volume
pt	pint	Volume
qt	quart	Volume
tbsp	tablespoon	Volume
tsp	teaspoon	Volume
µL	microliter	Volume
cc/hr	cubic centimeters per hour	Volume Flow Rate
cc/min	cubic centimeters/min	Volume Flow Rate
cc/sec	cubic centimeters per second	Volume Flow Rate
CFH	cubic feet per hour	Volume Flow Rate
CFM	cubic feet per minute	Volume Flow Rate
cu ft/sec	cubic feet per second	Volume Flow Rate
cu in/min	cubic inches per minute	Volume Flow Rate
cu m/hr	cubic meters per hour	Volume Flow Rate
cu m/min	cubic meters per minute	Volume Flow Rate
gal/d	gallons per day	Volume Flow Rate
gal/hr	gallons per hour	Volume Flow Rate
gal/min	gallons per minute	Volume Flow Rate
gal/sec	gallons per second	Volume Flow Rate
gpf	gallons per flush	Volume Flow Rate
L/hr	liters per hour	Volume Flow Rate
L/min	liters per minute	Volume Flow Rate
L/sec	liters per second	Volume Flow Rate
Lpf	liters per flush	Volume Flow Rate

Category Specific Attribute and Item Name Abbreviation	Term	Unit Group
mL/min	milliliters per minute	Volume Flow Rate
pt/stroke	pints per stroke	Volume Flow Rate
qt/stroke	quarts per stroke	Volume Flow Rate
SCFH	standard cubic feet per hour	Volume Flow Rate
SCFM	standard cubic feet per minute	Volume Flow Rate
carat	carat	Weight (Mass)
dr	dram (weight, avoidupois)	Weight (Mass)
dr (troy)	dram (weight, troy)	Weight (Mass)
g	gram	Weight (Mass)
kg	kilogram	Weight (Mass)
kip	kilopound	Weight (Mass)
lb	pound	Weight (Mass)
mg	milligram	Weight (Mass)
ng	nanogram	Weight (Mass)
oz	ounce	Weight (Mass)
pwt	pennyweight	Weight (Mass)
stone		Weight (Mass)
Tael	Tael	Weight (Mass)
tola	tola	Weight (Mass)
ton	short ton	Weight (Mass)
tonne	long ton	Weight (Mass)
tr oz	troy ounce	Weight (Mass)
µg	microgram	Weight (Mass)

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Appendix C: QA Checklist

The QA Checklist has been developed in accordance with the guidelines set forth in the Autodesk Seek Metadata Style Guide. Complying with every rule listed on the QA Checklist will result in high quality Autodesk Seek content. Content that does not satisfy the checklist's criteria will not be published to Autodesk Seek.

The QA Macro (located in the Autodesk Seek Product Workbook) automatically checks the rules **highlighted in yellow** below and identifies the exceptions within the Product Workbook.

Product Details Tab

Check for Required Attributes:

- Check that all attributes are populated as required by the desired Inclusion Level: Basic or BIM Ready**

- Basic: Highlighted in yellow in the Metadata Style Guide Quick Reference Table.*
 - ID*
 - Category Schema*
 - Schema Code*
 - Schema Title*
 - Manufactured or Generic*
 - Family or Product or Sub-Component*
 - Manufacturer*
 - Mfr Product Number or Family Name*
 - Item Name*
 - Long Description*
 - Link - Primary Full Image: URL*
 - Link - Mfr Webpage: URL*
 - Link - Product Webpage: URL*
 - Link - Attachment: URL*
 - Link - Attachment: Title*
 - Link - Attachment: Type*
 - Link - Attachment: Source Application and Version*

- BIM Ready: Highlighted in green in the Metadata Style Guide Quick Reference Table.*
 - Basic attributes listed above*
 - Category specific attribute population*
 - For the Architecture, Engineering and Construction market, there must be a 3D RFA file*

* At the Basic level, at least one document OR one design file is required.

Excel Formatting Issues:

- Check for entries changed to dates
- Check for ## characters (found in cells > 255 characters, formatted as text)
- Check for truncation (especially in Item Name and Long Description)
- Check for values converted to Scientific Notation (do a Find for “e+”)
- Check that leading zeros have not been inadvertently removed. *Example: in part numbers like “004742”*
- Remove excess spaces. *Example: double spaces in any cell, spaces at the beginning or ending of the cell value*
- Check for cells that contain only spaces and no other characters (do a Find for <space>, ensuring “Match entire cell contents” is selected)

Other Important General Checks:

- Check if products need to be rolled up into families
- Check that have *no* trailing commas at the end of all fields
- Check that have *no* trailing periods at the end of fields, except the Long Description
- Multiple values in an attribute must be separated by the pipe “|” character, not by commas. *Example: “Red | Black | Green”*
- HTML tags removed from fields all fields except Long Description
- Check for broken links in the link fields: *Link - Primary Full Image: URL, Link - Secondary Full Image(s): URL, Link - Mfr Logo, Link - Mfr Webpage: URL, Link - Product Webpage: URL*
- Perform spell check

Schema Related Checks:

- Ensure the appropriate Schema Code and Title have been selected for each item
- Category Schema:** Verify the attribute is fully populated and only contains one of the valid values: std:oc1 or std:mf04
- Schema Code:** Ensure the attribute is fully populated with valid codes from the schema designated by the Category Schema column
- Schema Title** - Ensure the attribute is fully populated with valid titles from the schema designated by the Category Schema column
- Ensure the Schema Code and Schema Title columns match one another. *Example: OmniClass 1.0 Table 23 code "23.30.20.17.11" is properly matched with its accompanying title "Fixed Windows"*

Checks To Be Performed On Individual Attributes:

- ID:** Ensure that all items have an ID and that the IDs are unique
- Manufactured or Generic:** Ensure the attribute is fully populated with either 'Manufactured' or 'Generic'
- Family or Product or Sub-Component:** Ensure the attribute is fully populated with one of the following values: Family, Product, Sub-Component
- Manufacturer:** If the 'Manufactured or Generic' attribute contains 'Manufactured', this attribute must contain a manufacturer name; if the 'Manufactured or Generic' contains 'Generic', this attribute must contain 'Generic'
- Mfr Product Number or Family Name:** Ensure the attribute is fully populated (for items that are manufactured) and contains only unique values
- ADA Compliant:** - Ensure that when this attribute is populated, it is only populated with either 'Yes' or 'No'

Item Name:

- Ensure the attribute is fully populated and unique
- Check for Item Names that are too long (256 characters or more) or too short (15 characters or less)
- Ensure that entries are title cased, but have proper casing for conjunctions, acronyms, model numbers, and units of measure. *Examples: and, or, for, ADA, CSA, Series 3000TS, psi, CFM, deg C*
- Convert decimals to fractions for regular fraction values such as: 1/8, 1/4, 3/8, 1/2, 5/8, 3/4, 7/8. *Example: 11.25" would become 11-1/4"*

Long Description:

- Ensure this attribute is fully populated
- Ensure that no Long Descriptions are greater than 5000 characters in length
- Ensure HTML tags have been added as required. Examples: `
` for line breaks, `` for bulleted lists

Category-Specific Attributes:

- Avoid special characters for fractions. *Example: ¼ should be 1/4*
- Convert decimals to fractions for regular fraction values such as: 1/8, 1/4, 3/8, 1/2, 5/8, 3/4, 7/8. *Example: 11.25" would become 11-1/4"*
- UOM's must conform to Style Guide standards. *Example: inches are represented by " , feet by '*
- Use 'to' instead of '-' for ranges. *Example: 4" to 6" , instead of 4" - 6"*
- Normalize attribute values. *Example, in a color attribute use only "Gray" instead of both "Gray" and "Grey"*
- Remove "N/A" from attributes; when there is no information for an attribute, please leave it blank

Attachments Tab

Checks To Be Performed On The Entire Worksheet:

- Check that required attributes are fully populated: *Link - Attachment: URL, Link - Attachment: Title, Link - Attachment: Type, Link - Attachment: Source Application and Version*

Checks To Be Performed On Individual Attributes:

- **ID:** Ensure that all IDs on the Attachments worksheet are present on the Product Details worksheet
- **Link - Attachments: URL:** Check for broken links
- **Link - Attachments: Title:** Ensure entries are title-cased and perform a spell-check
- **Link - Attachments: Type:** Ensure that entries conform to the valid values established for the field. *Examples: 3-Part Specification (not 3-part Spec. etc), Technical Data Sheet (not TDS, etc.), Product Brochure (not Brochure, etc.), 2D DWG, 3D DWG, 2D RFA, 3D RFA*
- **Link - Attachments: Source Application and Version:** Ensure attribute values are populated according to valid values. *Example: MS Word instead of Microsoft Word; AutoCAD instead of autocad, AUTOCAD, AutoCAD, etc.*

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