

The following tables list the Inventor Content Center hardware families to be used as standard.

**If the required type or size of hardware is not included in the following families please download models externally and process as a Buy (Smart Part req'd)**

Imperial Hardware Families		
Fastener Type	Content Center Family Name	Description Template
Hex Head Bolt	Hex Bolt - Inch - Grade 8	ANSI B18.2.1 HHCS [THREAD SIZE] [THREAD TYPE] - [LENGTH] GRADE 8 ZINC YELLOW CHROMATE
Socket Head Bolt	Grade 8 Hexagon Socket Head Cap Screw - Inch	ANSI B18.3 SHCS [THREAD SIZE] [THREAD TYPE] - [LENGTH] ASTM A574 ZINC
Flat Head Bolt	Flat Head Socket Grade 8	ANSI B18.3 FHSC [THREAD SIZE] [THREAD TYPE] - [LENGTH] ASTM F835 ZINC
Washer	SAE J2655 Washer (Grade 8)*	ANSI B18.22.1 NARROW WASHER [SIZE] SAE GRADE 8 ZINC YELLOW CHROMATE
Nylock Hex Nut	Nut Nylock Zinc - Inch - Grade 8	ANSI B18.16.6 NUT NYLOCK [THREAD SIZE] [THREAD TYPE] GRADE 8 ZINC YELLOW CHROMATE

\*Use the “narrow – Type A” washers only! These have the dimensions equivalent to the SAE J2655 specification.

\*When overwriting description in drawing Parts List remove the “narrow – Type A” text.

Metric Hardware Families		
Fastener Type	Content Center Family Name	Description Template
Hex Head Bolt	ISO 4017	ISO 4017 BOLT [SIZE] x [LENGTH] [ISO CLASS] **
Socket Head Bolt	ISO 4762	ISO 4762 BOLT [SIZE] x [LENGTH] [ISO CLASS] **
Flat Head Bolt	ISO 10642	ISO 10642 BOLT [SIZE] x [LENGTH] [ISO CLASS] **
Washer	ISO 7089	ISO 7089 BOLT [SIZE] [ISO CLASS] **
Nylock Hex Nut	ISO 10511	ISO 10511 BOLT [SIZE] [ISO CLASS] **

\*\*Metric hardware families use an ISO Class(A4-80, Class 10.9, or Class 8.8) designation in the description. Make sure the proper ISO Class is selected when inserting hardware!

Updating Content Center hardware:

1. Perform a “Get” on the TAIT .ipj in Vault
2. Open assembly
3. Manage tab → Content Center panel → Refresh button
4. Update Parts Lists on associated drawings (see examples on next page)

The screenshot shows the Autodesk Inventor Professional 2017 interface. The top ribbon is set to the **Manage** tab. In the **Content Center** panel, the **Refresh** button is highlighted. The left sidebar shows the **Content Center** tree view with various hardware categories like BOLT - SOCKET HEAD, BOLTS - FLAT HEAD, BOLTS - HEX HEAD, NUTS, and WASHERS. The bottom left shows the **ilLogic** panel with rules for the assembly.

The **Standard Component Refresh** dialog box is open, displaying the following information:

**Current Project Information**

Project Name: Tait\_Towers\_Vault  
Content Center Files: C:\\_vault\WIP\Content Center Files\

**Revised standard components**

Refresh	Component	Status	Family Folder	Part File	Family Name
<input checked="" type="checkbox"/>	Grade 8 Hexagon Socket Head Cap Screw - Inch 1/4 - 20 UNC - 1 1/2	Out of Date	Grade 8 Hexagon Socket Head Cap Screw - Inch	Copy of ...	Grade 8 Hexagon Socket Head Cap Screw - Inch
<input checked="" type="checkbox"/>	Hex Bolt - Inch - Grade 8 1/4-20 UNC - 1.5	Out of Date	Hex Bolt - Inch - Grade 8	HHCS GR...	Hex Bolt - Inch - Grade 8
<input checked="" type="checkbox"/>	Nut Nylock Zinc - Inch - Grade 8 1/4 - 20	Out of Date	Nut Nylock Zinc - Inch - Grade 8	1_4 - 20,...	Nut Nylock Zinc - Inch - Grade 8
<input checked="" type="checkbox"/>	SAE J2655 Washer (Grade 8) 1/4 - narrow - Type A	Out of Date	SAE J2655 Washer	SAE J265...	SAE J2655 Washer (Grade 8)
<input checked="" type="checkbox"/>	Flat Head Socket Grade 8 1/4 x 1 1/2	Out of Date	U 2509	Unbrako ...	Flat Head Socket Grade 8

At the bottom of the dialog, there are buttons for **Select All**, **Unselect All**, **Refresh**, and **Cancel**.