

# Part File Validation

**Purpose :** To verify and revise properties of part and sheet metal files in accordance with BEC standards.

## Functions:

- The tool will extract properties from the presently opened part and display them in the existing part details section.
- Any variations in properties when compared to the standard BEC Material Data Excel will be brought to attention by the tool.
- Users are provided with the choice to select new properties and apply them to their active parts or sheet metal files.

## Constraint:

- The tool will work on one part at a time.
- The tool will only work on .psm and .part (structure) files.

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## User Interface Guide:

1. Open the desired part in Solid Edge and Activate the tool by clicking on it.
2. Click Get BEC material data to fetch data from BEC material Excel.
3. In the event of the tool detecting any inconsistencies in the current part details, users can address these by accessing the "New Part Details" section and modifying the "Material Used", "Gage Name" or "Bend Type" accordingly.
4. Apply button to assign new properties to part.
5. Click the refresh button to reset the tool.
6. Close the tool to use other tools if needed

The screenshot shows the Brookville software interface for the "Part/ Sheet-Metal Update" tool. The interface is divided into a left sidebar and a main content area. The sidebar contains a "Add/ Update" section with options: "Virtual Structure", "New Part Creation", "Part/ Sheet-Metal Update" (highlighted with callout 1), "Assembly Validation", "Design", "QC Report", and "Configuration". The main content area is titled "Standard Part Details" and includes a "BEC Material Excel Path" field (callout 2) with a "Get BEC Material Data" button. Below this is a "Category" dropdown set to "SheetMetal". The "Part Properties" section is split into "Current Part Details" and "New Part Details" (callout 3). Each section has fields for Material Used, Size, Grade, Gage Name, Material Thickness (inch), Part Type, Material Spec, BEC Material, Bend Radius, and Bend Type. The "Current Part Details" section has a "Refresh" button (callout 5). The "New Part Details" section has "Close" (callout 6) and "Apply" (callout 4) buttons. The version number "1.0.206" is displayed at the bottom left.

Current Part Details		New Part Details	
Material Used	PL12GAA569	Material Used	PL12GAA569
Size	0	Size	
Grade	NEEDS APPLIED	Grade	A1011
Gage Name	12 gage	Gage Name	SHEET - 12 GA (Trumpf Air punch)
Material Thickness (inch)	0.105 in	Material Thickness (inch)	0.105 in
Part Type		Part Type	Sheet - Steel
Material Spec	STEEL, A1011 CS TYPE B HR (569)	Material Spec	PLATE, 12GA, A1011/A569 GR 50
BEC Material	STEEL, A1011, CS TYPE B, HR	BEC Material	STEEL, ASTM A1011, CS TYPE B, HR
Bend Radius	0.075 in	Bend Radius	0.075 in
Bend Type		Bend Type	Trumpf Air punch