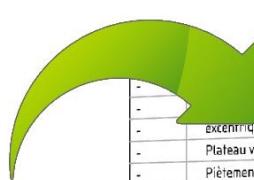


# TopSolid'Wood

## Wood Codification using



-	rectangulaire sse 30x8	TB-RFC	1	-	-	-	-
-	-	-	24	hêtre	-	-	-
-	excentrique minifix fil et bois ep 19	-	18	acier	-	-	-
-	Plateau verre	P1	1	Glass-01	-	1000.0	1000.0
-	Piètement 6	P6	1	panneau de particules	MFL-OT-03	440.0	333.3
-	Piètement 5	P5	1	panneau de particules	MFL-OT-03	440.0	333.3
-	Piètement 4	P4	1	panneau de particules	MFL-OT-03	440.0	295.3
-	Piètement 3	P3	1	panneau de particules	MFL-OT-03	440.0	295.3
-	Piètement 2	P2	1	MFL-WD-26	-	466.7	440.0
-	Piètement 1	P1	1	MFL-WD-26	-	466.7	440.0
-	TV-Flat-Screen	-	1	chrome	-	-	-
-	Safe mitano	-	1	-	-	-	-
-	Porte panneau verre	PPVF	1	-	-	-	-
-	Verre	VE	1	Glass-01	-	1015.0	523.0
-	Traverse haute	TH	1	hêtre	blanc brillant	591.0	5.0
-	Traverse basse	TB	1	hêtre	blanc brillant	591.0	20.0
-	Poignée fil	P0-FII	1	aluminium	-	80.0	20.0

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## Contents

<b>Contents .....</b>	iii
<b>Introduction.....</b>	1
<b>Using .....</b>	1
<b>Properties list usable in the Wood Codification .....</b>	1
Simple properties .....	1
Specifics properties .....	2
Dimensions properties .....	2
<b>Special using .....</b>	4
Apply the wood codification only to a part type .....	4
Display text in upper case or lowercase .....	4
Modify the separator symbol .....	4
Rule the number of characters displayed .....	4
Display the part's set properties or the project's set properties.....	5
<b>Wood codification for specific file name .....</b>	6
Cam files names .....	6
DFT file name in multi-drawing.....	6
Display additional information in the wood selection windows .....	7
Customize the displayed text on the nested parts .....	8
<b>Examples .....</b>	9
<b>Notes.....</b>	10



## Introduction

The function Wood Codification allows concatenating in one bill of material column several parts' properties.

## Using

- Edit with a text editor a BOM file previously created.
- In the column where the properties will be concatenated, write after the DEF the wood codification like the following example:

```
NAME=LEVEL
"DEF=<WOO_CODIFICATION|...>"
TYPE=INTEGER
ALIGN=LEFT
TITLE_ALIGN=LEFT
WIDTH=0.015
VISIBLE=YES
;
```

- The properties whose will be concatenate to generate the wood codification have to be written in between the | and the >.
- Each property write in the wood codification have to be between two \$.

Example:

"DEF=<WOO\_CODIFICATION|\$DESIGNATION\$\$ REFERENCE\$>"

Explain: In this case, the column will display the part designation and the part reference.

Result: If the part's designation is **Right side** and the part's reference is **RS**, the result will be: **Right sideRS**

- It's possible to add basic texts between each property. For this, simply write it in the wood codification.

Example: (the basic text is in red):

"DEF=<WOO\_CODIFICATION|Name:\$DESIGNATION\$ - Ref:\$ REFERENCE\$>"

Result: Name:Right Side – Ref:RS

## Properties list usable in the Wood Codification

### Simple properties

- TopSolid Design file name (with the file extension .top): **DOCUMENT\_NAME**
- Part's designation: **DESIGNATION**
- Part's reference: **REFERENCE**
- Part's type: **TYPE**
- Part's supplier: **SUPPLIER**
- Part's index: **INDEX**
- Part's first 3D index: **INDEX\_3D**
- Part's second 3D index: **INDEX\_3D\_2**
- Part's identifier (@): **ELEMENT\_IDENTIFIER**
- Part's matter: **MATTER**
- Part's coating: **COATING**
- If the part is an edge or a laminate, his codification: **WOO\_EDGE\_OR\_LAMINATE\_CODIFICATION**
- If the part is a panel, the support's matter: **WOO\_PANEL\_MATTER**
- If the component use code, his code: **COMPO\_CODE**

- Part's over length repartition mode (on X): PART\_OFFSET\_X
- Part's over width repartition mode (on Y): PART\_OFFSET\_Y

- **0 : Positive side**
- **1 : Negative side**
- **2 : Centered**

**Remark :** Using part's over dimensions repartition mode properties in the **Wood codification** requires to make the stock.

## Specifics properties

The text in red has to be replaced by the element name.

- DGI in the part's document:  
**\$DGI|Name:[DGI name]\$**
- Part's property:  
**\$PROP|Name:[Propertie name]|Field:[Field name]\$**
- Component's parameter:  
**\$COMPO\_PARAM|Name:[Parameter name]\$**
- Component's text:  
**\$COMPO\_TEXT|Name:[Text name]\$**

## Dimensions properties

It's possible, for the dimensions properties, to display the value in a specific format by ruling the unit, the number of digits after the decimal point and the separator symbol.

- Write in the wood codification the property followed by: |Unit:**4**|Prec:**2**
  - **Unit:** corresponds to the unite use to display the value.
    - Unit:0** : meter
    - Unit:4** : millimeter
    - Unit:5** : centimeter
    - Unit:6** : decimeter
    - Unit:7** : decameter
    - Unit:8** : hectometer
    - Unit:9** : kilometer
    - Unit:11** : mil
    - Unit:12** : inch
    - Unit:13** : foot
    - Unit:14** : yard
    - Unit:14** : mile
  - **Prec:** corresponds to the number of digits after the decimal point.

### Example:

<WOO\_CODIFICATION|\$PART\_THICKNESS|Unit:**4**|Prec:**2**>

Explain: In this case, the column will display the part's thickness in millimeters with 2 digits after the decimal point.

Result: If the part's thickness = **15.2mm**, the result will be: **15.20mm**.

- Usable properties list:
  - Part's finish length: PART\_LENGTH
  - Part's finish width: PART\_WIDTH

- Part's finish thickness: PART\_THICKNESS
- Part's rough length: PART\_ROUGH\_LENGTH
- Part's rough width: PART\_ROUGH\_WIDTH
- Part's rough thickness: PART\_ROUGH\_THICKNESS
- Part's length oversize: PART\_OVER\_LENGTH
- Part's width oversize: PART\_OVER\_WIDTH
- Part's thickness oversize: PART\_OVER\_THICKNESS

## Special using

### Apply the wood codification only to a part type

It's possible to apply the wood codification only to a part type.

- Write at the wood codification end: **TYPE(Part type)**

#### Example:

<WOO\_CODIFICATION|WOO\_PANEL\_MATTER-\$PART\_THICKNESS|Unit:4|Prec:0\$TYPE(Panel)>

Explain: In this case, the wood codification will be applied only on the part whose type is **Panel**.

Result: If the panel support's matter is **particule board**, its thickness = **19mm** and its part type contains **Panel**, the result will be: **particule board-19**.

### Display text in upper case or lowercase

It's possible to display a property in the wood codification in uppercase or in lowercase.

- Add after the property name |**Upper** or |**Lower**.

#### Example:

<WOO\_CODIFICATION|\$DESIGNATION|Upper\$-\$REFERENCE|Lower\$>

Explain: In this case, the wood codification will display the part's designation in uppercase and the part's reference in lowercase.

Result: If the part's designation is **Right side** and the part's reference is **RS**, the result will be: **RIGHT SIDE-rs**.

### Modify the separator symbol

For the dimensions properties, it is possible to change the separator symbol (by default **.**).

- For this, write after the dimension property: |**Comma:-\$**

**Comma:** corresponds to the separator symbol.

#### Example:

<WOO\_CODIFICATION|\$PART\_THICKNESS|Unit:4|Prec:2|Comma:-\$>

Explain: In this case, the column will display the part's thickness and the decimal separator will be a **-**.

Result: If the part's thickness = **15.2mm**, the result will be: **15-20mm**.

### Rule the number of characters displayed

For the dimensions properties, it is possible to rule the number of characters displayed (number of digits before the decimal point + number of digits after the decimal point + separator).

**Note:** If the number of characters to display is higher than the digit number, no character is deleted and the true number of characters is displayed.

- Write after the dimension property: |**DigitNumber:6**

#### Example:

<WOO\_CODIFICATION|\$PART\_THICKNESS|Unit:4|Prec:2|Comma:,|DigitNumber:6\$>

Result: If the part's thickness = **5.2mm**, the column will display: **005,20**

If the part's thickness = **1050.2mm**, the column will display: **1050,20**

## **Display the part's set properties or the project's set properties**

It's possible to display in the wood codification the component's set properties.

- Write after the property: |OWNER\_1

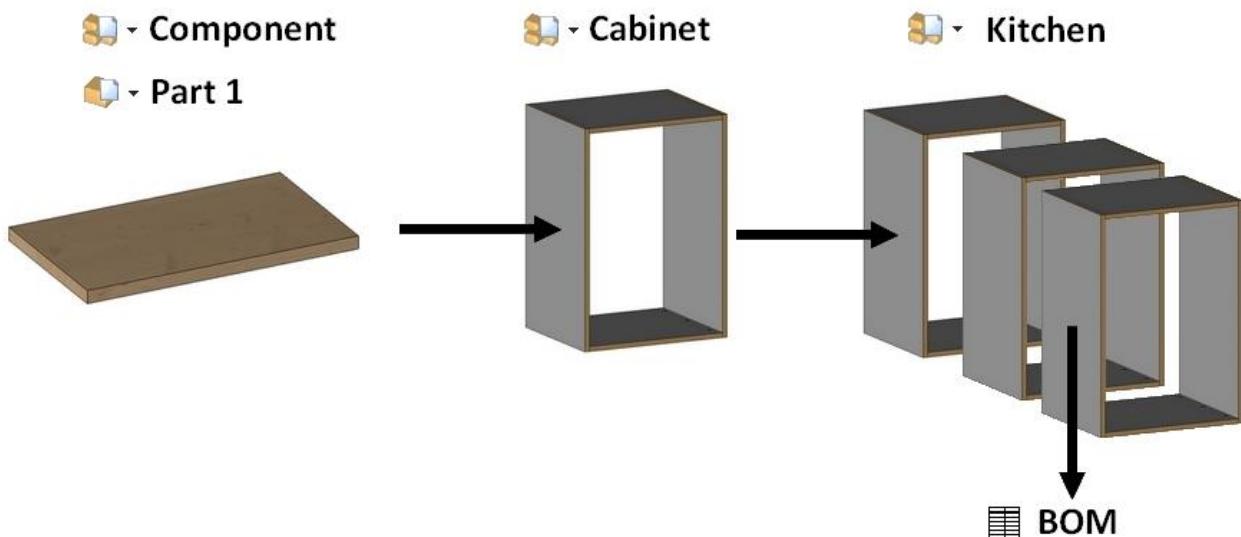
**Example:**

<WOO\_CODIFICATION|\$DESIGNATION|OWNER\_1\$>

**Result:** If a component designation is Cabinet and this component contains a part, the column will display Cabinet.

- It is possible to change the number of the owner in the BOM. It changes the assembly level use to display the properties: OWNER\_n
- It's too possible to display the final assembly's properties. For this, add after the property: OWNER\_PRJ

**Example:**



**Result:** If the bill of material of the part is display in the assembly Kitchen:

- "DEF=<WOO\_CODIFICATION|\$DESIGNATION|OWNER\_1\$>" => Component
- "DEF=<WOO\_CODIFICATION|\$DESIGNATION|OWNER\_2\$>" => Cabinet
- "DEF=<WOO\_CODIFICATION|\$DESIGNATION|OWNER\_PRJ\$>" => Kitchen

**Note:** For more information about the owner properties, see the documentation **Direct - Root owner**.

## Wood codification for specific file name

### ***Cam files names***

It's possible to manage the cams files names (TopSolid'Wood Cam or machining exports) exported.

- Create a bill of material with your wood codification for the cam file name.
- Replace **WOO\_CODIFICATION** by **WOO\_CAM\_FILE\_NAME**.

**Note:** In the case or 2 cams files are generated, it is possible to manage the second cam file name with a second wood codification with using **WOO\_CAM\_FILE\_NAME2**.

- Save the bill of material.
- Since a design document, open the options with **Tools > Options**.
- Open the section **TopSolid'Wood Configuration > Files > Parts selection sorting**.
- Double-click on the interface use (for example **TopSolid'WoodCam** or **WoodWop**).
- Load the BOM file previously created with the **WOO\_CAM\_FILE\_NAME**.
- Validate the file with **OK** and validate the options with **OK**.

So when the machining export will be realized, the cams files names will be formatted like the **WOO\_CAM\_FILE\_NAME** for the first machining file and like the **WOO\_CAM\_FILE\_NAME2** for the second machining file.

### ***DFT file name in multi-drawing***

It's possible to manage the DFT files names generated by a **Multi-drawing**.

- For this, create a bill of material with your **Wood codification** for the DFT file name.
- Replace **WOO\_CODIFICATION** by **WOO\_DFT\_FILE\_NAME**.
- Save the bill of material.
- Since a design document, open the options with **Tools > Options**.
- Open the section **TopSolid'Wood Configuration > Files > Parts selection sorting**.
- Double-click on the line **Multi drawings**.
- Load the BOM file previously created with the **WOO\_DFT\_FILE\_NAME**.
- Validate the file with **OK** and validate the options with **OK**.

So when the multi-drawing will be realized, the DFT files names will be formatted like the **WOO\_DFT\_FILE\_NAME**.

**Note:** The name of each DFT file name is not managed if all the drafts are put in one document.

## **Display additional information in the wood selection windows**

It is possible, in the wood selection windows (like the **Matter configuration** or the **Ardis export**), to display more information.

By default, only the part's designation is display.

- For this, create a bill of material with your wood codification with all the information to display.
- Replace **WOO\_CODIFICATION** by **WOO\_TREE\_IDENTIFICATION**.
- Save the bill of material.
- Since a design document, open the options with **Tools > Options**.
- Open the section **TopSolid'Wood Configuration > Files > Parts selection sorting**.
- Double-click on the configurator's line to modify.
- Load the BOM file previously created with the **WOO\_TREE\_IDENTIFICATION**.
- Validate the file with **OK** and validate the options with **OK**.

So when the part selection box is used, all the information in the **WOO\_TREE\_IDENTIFICATION** will be displaying.

### **Example:**

- The bellow bill of material is created:

```
COLUMNS {
    NAME=TREE_IDENTIFICATION
    "DEF=<WOO_TREE_IDENTIFICATION|$DESIGNATION$-$REFERENCE$-$ELEMENT_IDENTIFIER$>"
    TYPE=STRING
    ALIGN=LEFT
    TITLE_ALIGN=LEFT
    WIDTH=0.015
    VISIBLE=YES
    ;
}
GROUP_BY {
    TREE_IDENTIFICATION
}
ORDER_BY {
    TREE_IDENTIFICATION
}
```

- This bill of material is used for the **Matters configurator**.



- So when the **Matters configurator** is used, the information added in the **WOO\_TREE\_IDENTIFICATION** are displayed.



## Customize the displayed text on the nested parts

It's possible, in a nesting, to customize the information displayed on the parts.

By default, only the part's designation is displayed or its identifier if it does not have a designation.

- For this, create a bill of material with your wood codification with all the information to display.
- Replace **WOO\_CODIFICATION** by **WOO\_NESTING\_IDENTIFICATION**.
- Save the bill of material.
- Since a design document, open the options with **Tools > Options**.
- Open the section **TopSolid'Wood Configuration > Files > Parts selection sorting**.
- Double-click on the **Automatic nesting** line.
- Load the BOM file previously created with the **WOO\_NESTING\_IDENTIFICATION**.
- Validate the file with **OK** and validate the options with **OK**.

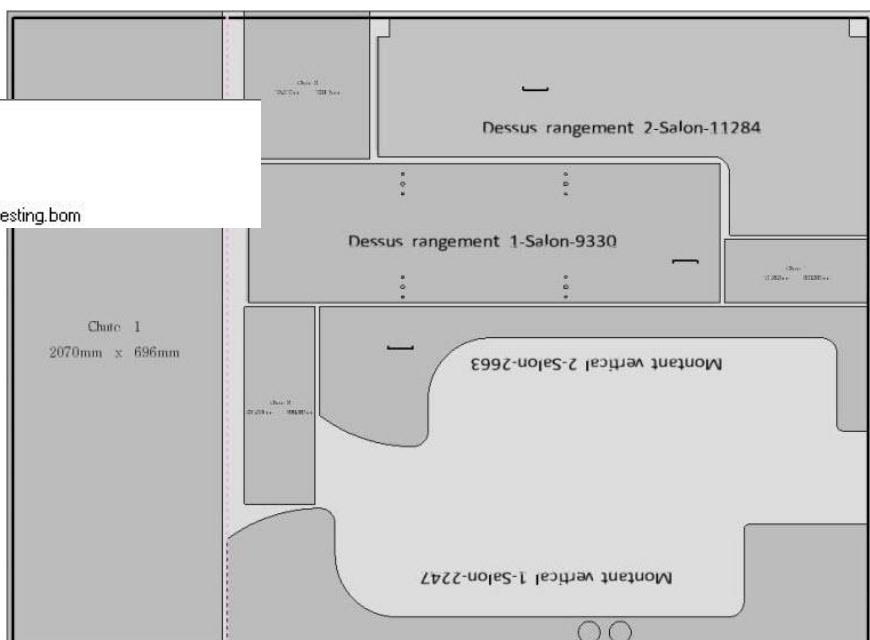
With this, when making a nesting, all the information of the **WOO\_NESTING\_IDENTIFICATION** will be displayed.

### Example:

- The bellow bill of material is created:

```
COLUMNS {
    NAME=NEST_IDENTIFICATION
    "DEF=<WOO_NESTING_IDENTIFICATION|$DESIGNATION$-DESIGNATION|OWNER_PRJ$-
$ELEMENT_IDENTIFIER$>"
    TYPE=STRING
    ALIGN=LEFT
    TITLE_ALIGN=LEFT
    WIDTH=0.015
    VISIBLE=YES
    ;
}
GROUP_BY {
    NEST_IDENTIFICATION
}
ORDER_BY {
    NEST_IDENTIFICATION
}
```

- This BOM is used for the **Automatic nesting**.



## Examples

A part in a project has these properties:

- Designation : RightSide
- Reference : RS
- Type : Panel
- Supplier : InterWood
- BOM index : R5
- Identifier : @154
- Matter : Particule board
- Coating : Nothing
- Finish length : 5000 mm
- Finish width: 200 mm
- Rough length : 5010 mm
- Rough width : 205 mm
- The part has a property "Production" with a field "Assembly site" at the value: "Toulouse".
- The document has a DGI "JOB\_NAME" at the value : REF154
- The part is belongs to a component "**Cabinet**"

Wood codification	Result
DEF=<WOO_CODIFICATION \$DESIGNATION\$-\$REFERENCE\$>	RightSide-RS
DEF=<WOO_CODIFICATION \$TYPE Upper\$-ref-\$REFERENCE Lower\$>	PANEL-ref-rs
DEF=<WOO_CODIFICATION \$ELEMENT_IDENTIFIER\$ \$COATING\$-\$MATTER\$>	154 -Particule board
DEF=<WOO_CODIFICATION ASM:\$PROP Name:Production Field:Assembly site \$>	ASM:Toulouse
DEF=<WOO_CODIFICATION Job:\$DGI Name:JOB_NAME\$>	Job:REF154
DEF=<WOO_CODIFICATION \$PART_LENGTH Unit:4 Prec:0\$>	5000
DEF=<WOO_CODIFICATION \$PART_WIDTH Unit:4 Prec:2 Comma:-\$ >	200-00
DEF=<WOO_CODIFICATION \$INDEX\$-\$PART_ROUGH_LENGTH Unit:4 Prec:0 DigitNumber:5\$>	R5-05010
DEF=<WOO_CODIFICATION \$SUPPLIER\$-\$PART_OVER_WIDTH Unit:4 Prec:1 Comma:,\$>	InterWood-5,0

## Notes

