

Typical Window BOM Layouts

- Single Hung**
- Frame
 - IG
 - Balance-LS
 - Jambs
 - Head/Sill
 - Lock Sash
 - IG
 - Stiles
 - Rails
 - Screen
 - Ext. Jambs (common to all)
 - Alerts (common to all)

- Double Hung**
- Frame
 - Balance-KS
 - Balance-LS
 - Jambs
 - Head/Sill
 - Keeper Sash
 - IG
 - Stiles
 - Rails
 - Lock Sash
 - IG
 - Stiles
 - Rails
 - Screen

- Single Slider**
- Frame
 - IG
 - Jambs
 - Head/Sill
 - Lock Sash
 - IG
 - Stiles
 - Rails
 - Screen

- Double Slider**
- Frame
 - Jambs
 - Head/Sill
 - Keeper Sash
 - IG
 - Stiles
 - Rails
 - Lock Sash
 - IG
 - Stiles
 - Rails
 - Screen

- Casement/Awning/Hopper**
- Frame
 - Hardware
 - Jambs
 - Head/Sill
 - Sash
 - IG
 - Stiles
 - Rails
 - Hardware
 - Screen

- Picture Window**
- Frame
 - Jambs
 - Head/Sill
 - IG

- Shape Window**
- Frame
 - Frame material
 - IG

- Balance example—Cnst. force**
- Balance-KS
 - BAL.2A
 - BAL.2B
 - BAL.3B
 - BAL.3C
 - ...
 - BAL.Screws
 - Balance-LS
 - BAL.2A
 - BAL.2B
 - BAL.3B
 - BAL.3C
 - ...
 - BAL.Screws

- IG example**
- IG-SSB-A
 - IG-CLCL-SSB-A
 - IG-CLLE-SSB-A
 - ...
 - Gas.Argon
 - IG-DSB-A
 - IG-CLCL-DSB-A
 - IG-CLLE-DSB-A
 - ...
 - IG-DSB-T
 - IG-CLCL-DSB-T
 - IG-CLLE-DSB-T
 - ...

Common Attributes

Attribute	Description
	Ordered Part
FH & FW	Script to determine finished or frame size of the window after rough opening deduct
H & W	=S[FH] & S[FW]
KSH & KSW	On double sashed units: Keeper sashes height and width, used by balance calculations.
LSH & LSW	Lock sash height and width, used by balance calculations
	Frame Part
FH & FW	=P[FH] & P[FW]
H & W	=S[FH] & S[FW]
BAL-KS & BAL-LS	Script to determine the balances to be used for the Keeper and Lock Sash
KSH & KSW	=P[KSH] & P[KSW]
LSH & LSW	=P[LSH] & P[LSW]
DL	Returns "Y" if the unit has double locks, "" if it does not. Used both in BOM and on Label
	Sash Part
H & W	=S[KSH] & S[KSW] / S[LSH] & S[LSW]
	Parts containing an IG subassembly (sashes, SH, PW, SSL frames)
IGH & IGW	IG height and width
IGT	Overall IG thickness, usually a static number
IGCDE	String that contains the IG part number, used by the IG parts, NFRC attributes, and reports/labels
GAS	Gas type
HA & WA	Height and width adjust, used by the grid calculation attributes
MP	Returns the muntin (grid) pattern specified
GRMAT	Returns the grid material chosen
GRDIST	Returns the grid distance (perimeter and prairie patterns)
GRTYPE	Returns the type of grid pattern (COL, PRA, PER)

Window Attribute Tips

The following BOM subassemblies **should not** reference the option structure or ordered size directly, and instead get their values from parent part attributes:

- IG Subassemblies
- Grid Subassemblies
- Balance Subassemblies

(An exception to this rule is dynamic parts, which obviously have to query the option structure.)

Global Attribute Usage

- Ordered Parts
- Shared Subassemblies
 - Frames
 - Sashes
 - Top level IG
 - Balances

Local Attribute Usage

- Inventoried parts
- Combo parts
- Include Attributes

System Attribute Usage

- Validation scripts
 - Lead time scripts
- (System attributes should be uniquely named by window series)

Other Tips

- Use "If Parent Is Nothing" to handle compatibility with the Service Wizard
- Glazing beads and grid subassemblies should be co-located with the top level IG subassembly
- Share subassemblies where possible
- Use substitute parts where possible
- Plan for script efficiency but **keep scripts simple!** Everyone isn't a CS major, so it will make it easier to maintain straight-forward scripts in the future.

Combo Parts—Used for Cut Vinyl Profiles

Jambs Example

- Part used on saw to cut two at a time
- Following LOCAL attributes:
 - $H = P[H] + BF$ (if applicable)
 - I = Script to check if correct profile (if applicable)

VF9863<COLOR>-H2
VF9863<COLOR>

- Part used on saw to cut one at a time
- Following LOCAL attributes:
 - $H = P[H]$
 - $Q = 2$ OR $P[Q] * 2$

Head/Sill Example (with different profile)

- Part used on saw to cut two at a time
- Following LOCAL attributes:
 - $W = P[W] + BF$ (if applicable)
 - I = Script to check if correct profile (if applicable)

VF9861/3<COLOR>-W2
VF9861<COLOR>
VF9863<COLOR>

- Part used on saw to cut one at a time
- Following LOCAL attributes:
 - $W = P[W]$
 - $Q = 1$ OR $P[Q] * 1$

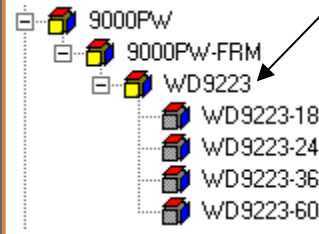
Combo Part Tips

- Both combo and inventoried parts will have to be created from dynamic parts
- Watch out for "by path" issues with saws
- MaxOPT doesn't use combo parts.

Other Tips

Wood Setup—Used for Pulling Stock Lengths

- Part used choose the correct part to pull
- Following LOCAL attributes:
 - $CUTW = P[W]$
 - STK = Return the stick length to pull
 - I = Script to check if correct profile (if applicable)



- Part pulled from inventory
- Following LOCAL attributes:
 - $CUTW = P[CUTW]$
 - $Q = 1$ OR $P[Q] * 1$
 - I = Script to check if correct length

Screen Setup

Purchased Out Screens

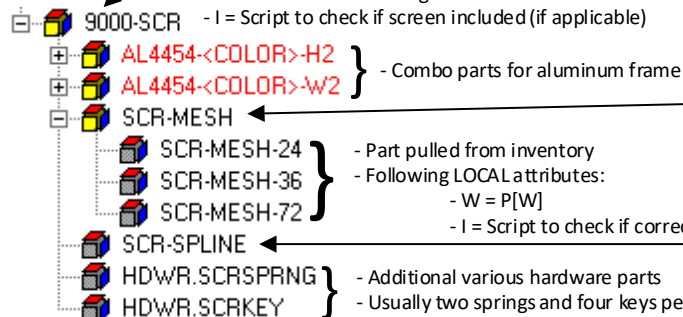
- Parent screen subassembly
- Following LOCAL attributes:
 - H & W = Script that references P[LSH] or P[FH] (depending on full vs half screen) to return the height of the screen
 - I = Script to check if screen included (if applicable)

8100SH-SCRN
SCRN343SH<COLOR>-<SCREENMATL>

- Purchased out screen part
- Following LOCAL attributes:
 - H & W = P[H] & P[W]
 - PURCH = Extra attribute to send other needed information, such as crossbar location

Manufactured Screens

- Parent screen subassembly
- Following LOCAL attributes:
 - H & W = Script that references P[LSH] or P[FH] (depending on full vs half screen) to return the height of the screen
 - I = Script to check if screen included (if applicable)



- Part used choose the correct mesh roll to pull
- Following LOCAL attributes:
 - W = Script that returns the longer of H or W, plus an approx. 1-2" fudge factor
 - ROLL = Return the roll width to pull
 - I = Script to check if correct mesh type (if applicable)

- Part used hold the mesh in place
- Following LOCAL attributes:
 - $W = (P[H] + P[W]) * 2$

Notes