

Select By Attributes Dialog



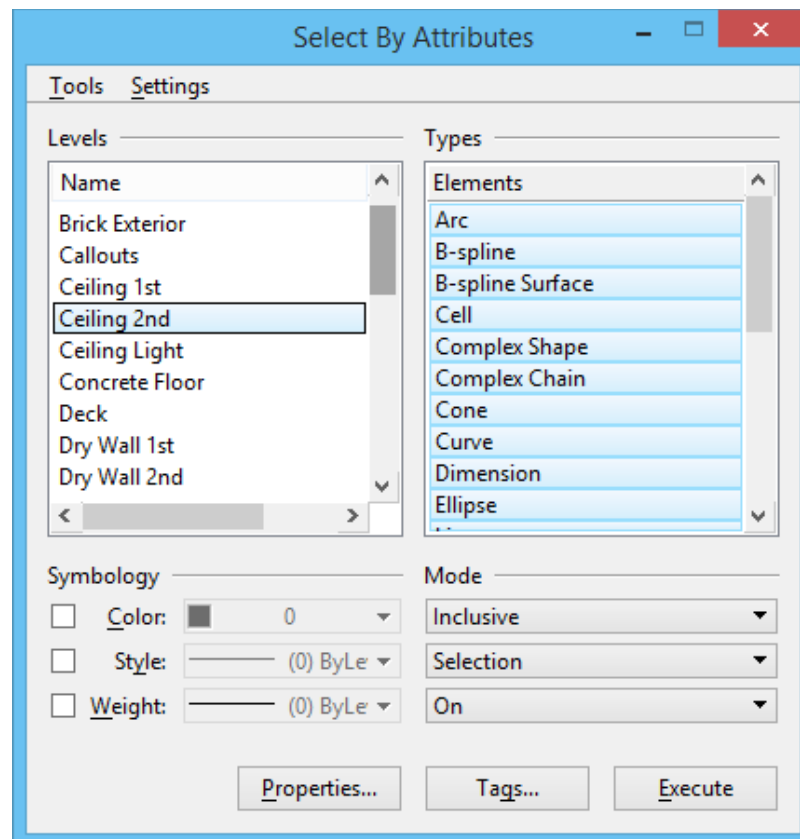
Used to select elements based on specified criteria.

- *Select* elements (in a sense, extend the Element Selection).
- *Locate* elements.
- Filter the elements that are displayed.

Selection criteria can be saved in separate files for reuse.

You can open this dialog from the following:

- Ribbon: **Drawing** > **Home** > **Selection** (This setting is hidden by default)
- Ribbon: **Modeling** > **Home** > **Selection** (This setting is hidden by default)
- Ribbon: **Visualization** > **Home** > **Selection** (This setting is hidden by default)
- Ribbon: **Admin** > **Home** > **Selection** (This setting is hidden by default)



Key-in: MDL LOAD SELECTBY DIALOG

Note: For criteria settings to be effective, the third unlabeled option menu under **Mode** must be set to On.

Note: When you close the Select By dialog, an alert box displays:

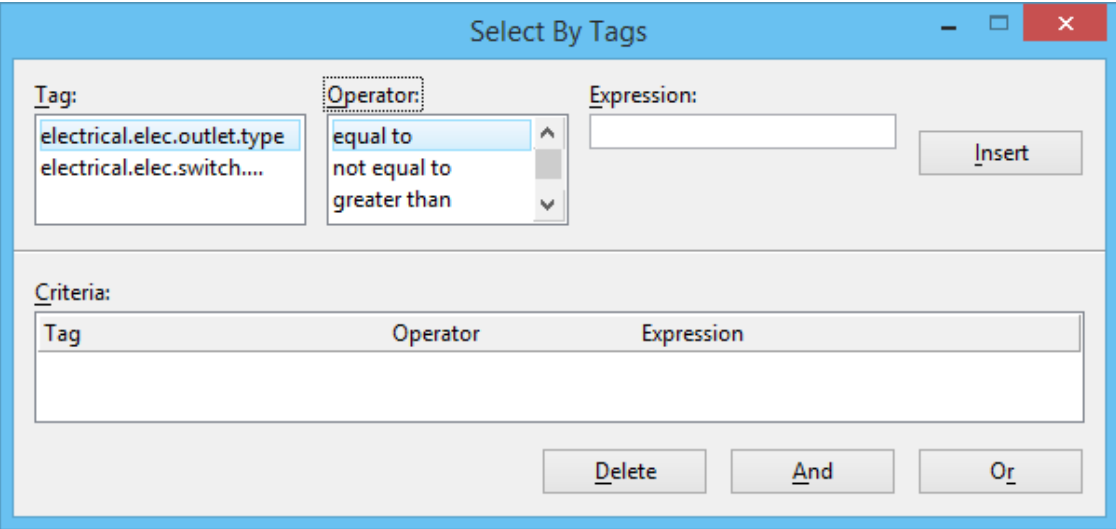
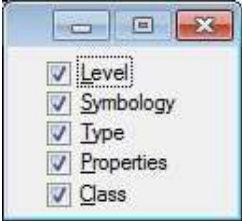
- Click **OK** to continue to apply the Select By settings.
- Click **Cancel** to unload the "selectby.ma" MDL application.

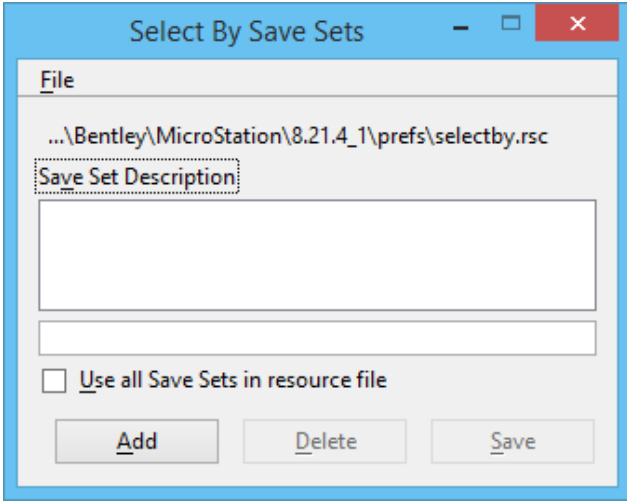
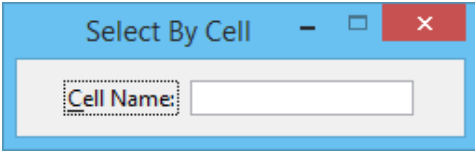
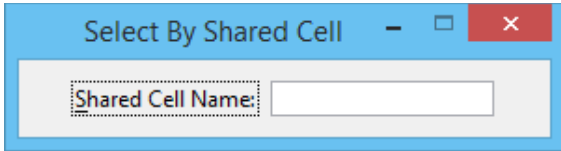
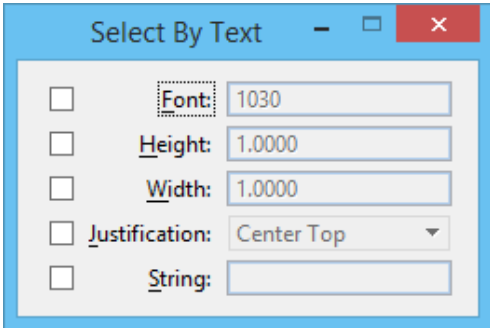
Note: Key-ins must be activated by the key-in SELECTBY EXECUTE. SELECTBY must be loaded (MDL LOAD SELECTBY) and the type cleared by keying in SELECTBY TYPE NONE.

Setting	Description														
<p>Levels</p>	<p>Used to specify level criteria.</p> <p>To select a single level, click the level. To select many levels at once, click and drag through the level list. To select non-contiguous levels in the list, <Ctrl-click> required levels. To deselect a level, <Ctrl-click> the highlighted level.</p> <p>SELECTBY LEVEL <LEVEL LIST></p> <p>Note: Level_list can be as follows:</p> <table border="1" data-bbox="309 660 1377 1274"> <thead> <tr> <th data-bbox="309 660 1109 719">Form</th> <th data-bbox="1109 660 1377 719">Examples</th> </tr> </thead> <tbody> <tr> <td data-bbox="309 719 1109 815">List levels by number</td> <td data-bbox="1109 719 1377 815">SELECTBY LEVEL 2,4,7,9</td> </tr> <tr> <td data-bbox="309 815 1109 949">Range(s) of levels, indicated by hyphen (-)</td> <td data-bbox="1109 815 1377 949">SELECTBY LEVEL 2-4 SELECTBY LEVEL 2-4,9-15</td> </tr> <tr> <td data-bbox="309 949 1109 1122">Level and level group names (The complete level path must be specified for each name that is not unique in the level structure. The colon (:) is the separator character in a level path specification.)</td> <td data-bbox="1109 949 1377 1122">SELECTBY LEVEL plumbing</td> </tr> <tr> <td data-bbox="309 1122 1109 1180">Select all levels</td> <td data-bbox="1109 1122 1377 1180">SELECTBY LEVEL ALL</td> </tr> <tr> <td data-bbox="309 1180 1109 1274">Deselect all levels</td> <td data-bbox="1109 1180 1377 1274">SELECTBY LEVEL NONE</td> </tr> </tbody> </table> <p>Note: The levels section should be cleared before using the key-ins so that no existing selections are included. You can do this with the SELECTBY TYPE NONE key-in.</p>	Form	Examples	List levels by number	SELECTBY LEVEL 2,4,7,9	Range(s) of levels, indicated by hyphen (-)	SELECTBY LEVEL 2-4 SELECTBY LEVEL 2-4,9-15	Level and level group names (The complete level path must be specified for each name that is not unique in the level structure. The colon (:) is the separator character in a level path specification.)	SELECTBY LEVEL plumbing	Select all levels	SELECTBY LEVEL ALL	Deselect all levels	SELECTBY LEVEL NONE		
Form	Examples														
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Select all levels	SELECTBY LEVEL ALL														
Deselect all levels	SELECTBY LEVEL NONE														
<p>Types</p>	<p>Used to specify criteria based on element type:</p> <p>To select a single type, click the type. To select many types at once, click and drag through the types. To select non-contiguous types in the list, <Ctrl-click> required types. To deselect a type, <Ctrl-click> the highlighted type.</p> <p>Element type criteria also can be set with key-ins:</p> <table border="1" data-bbox="309 1691 1027 2085"> <thead> <tr> <th data-bbox="309 1691 555 1749">Control</th> <th data-bbox="555 1691 1027 1749">Key-in</th> </tr> </thead> <tbody> <tr> <td data-bbox="309 1749 555 1807">(No type criteria)</td> <td data-bbox="555 1749 1027 1807">SELECTBY TYPE NONE</td> </tr> <tr> <td data-bbox="309 1807 555 1865">All Types</td> <td data-bbox="555 1807 1027 1865">SELECTBY TYPE ALL</td> </tr> <tr> <td data-bbox="309 1865 555 1924">Arc</td> <td data-bbox="555 1865 1027 1924">SELECTBY TYPE ARC</td> </tr> <tr> <td data-bbox="309 1924 555 1982">B-Spline</td> <td data-bbox="555 1924 1027 1982">SELECTBY TYPE BSPLINE</td> </tr> <tr> <td data-bbox="309 1982 555 2040">B-Spline Surface</td> <td data-bbox="555 1982 1027 2040">SELECTBY TYPE BSPLINESURFACE</td> </tr> <tr> <td data-bbox="309 2040 555 2085">Cell</td> <td data-bbox="555 2040 1027 2085">SELECTBY TYPE CELL</td> </tr> </tbody> </table>	Control	Key-in	(No type criteria)	SELECTBY TYPE NONE	All Types	SELECTBY TYPE ALL	Arc	SELECTBY TYPE ARC	B-Spline	SELECTBY TYPE BSPLINE	B-Spline Surface	SELECTBY TYPE BSPLINESURFACE	Cell	SELECTBY TYPE CELL
Control	Key-in														
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Setting	Description									
	Control	Key-in								
	Complex Shape	SELECTBY TYPE COMPLEXSHAPE								
	Complex Chain	SELECTBY TYPE COMPLEXSTRING								
	Cone	SELECTBY TYPE CONE								
	Curve	SELECTBY TYPE CURVE								
	Dimension	SELECTBY TYPE DIMENSION								
	Ellipse	SELECTBY TYPE ELLIPSE								
	Line	SELECTBY TYPE LINE								
	Line String	SELECTBY TYPE LINESTRING								
	Mesh	SELECTBY TYPE MESH								
	Multi-line	SELECTBY TYPE MULTILINE								
	Raster	SELECTBY TYPE RASTER								
	Raster Attachment	SELECTBY TYPE RASTERATTACHMENT								
	Shape	SELECTBY TYPE SHAPE								
	Shared Cell	SELECTBY TYPE SHAREDCELL								
	Solid	SELECTBY TYPE SOLID								
	Surface	SELECTBY TYPE SURFACE								
	Text	SELECTBY TYPE TEXT								
	Text Node	SELECTBY TYPE TEXTNODE								
	<p>Note: Existing selections are not automatically cleared by the key-ins, therefore the Types column should be cleared (not black) before using the above key-ins. You can do this with the SELECTBY TYPE NONE key-in.</p>									
<p>Symbology</p>	<p>Used to specify criteria based on element color, line style (including custom line style), and line weight.</p> <p>Element symbology criteria can also be set with key-ins:</p> <table border="1" data-bbox="309 1666 847 1895"> <thead> <tr> <th data-bbox="309 1666 429 1727">Control</th> <th data-bbox="429 1666 847 1727">Key-in</th> </tr> </thead> <tbody> <tr> <td data-bbox="309 1727 429 1778">Color</td> <td data-bbox="429 1727 847 1778">SELECTBY COLOR <color></td> </tr> <tr> <td data-bbox="309 1778 429 1830">Style</td> <td data-bbox="429 1778 847 1830">SELECTBY STYLE <line_style></td> </tr> <tr> <td data-bbox="309 1830 429 1895">Weight</td> <td data-bbox="429 1830 847 1895">SELECTBY WEIGHT <line_weight></td> </tr> </tbody> </table> <p>Note: Key-ins must be activated by the key-in SELECTBY EXECUTE.</p>		Control	Key-in	Color	SELECTBY COLOR <color>	Style	SELECTBY STYLE <line_style>	Weight	SELECTBY WEIGHT <line_weight>
Control	Key-in									
Color	SELECTBY COLOR <color>									
Style	SELECTBY STYLE <line_style>									
Weight	SELECTBY WEIGHT <line_weight>									
<p>Mode</p>	<p>Three unlabeled option menus control the following:</p>									

Setting	Description	
	Option menu	Description
	Top	<p>Controls which elements are selected, displayed, or located when the Execute button is clicked.</p> <ul style="list-style-type: none"> • Inclusive — All elements that match search criteria. • Exclusive — All elements that do not match search criteria.
	Middle	<p>Controls how criteria are used when the Execute button is clicked.</p> <ul style="list-style-type: none"> • Selection — Elements are selected based on Select By criteria. (To graphically select individual elements, use the Element Selection tool.) • Location — Filters location of elements based on Select By criteria. Elements can then be selected by using the Select All command. • Display — Filters display of elements based on Select By criteria.
	Bottom	<p>If set to On (the default), Select By criteria is effective.</p> <p>If set to Off, Select By criteria is ignored.</p>
	<p>SELECTBY MODE [INCLUSIVE EXCLUSIVE]</p> <p>SELECTBY OPTIONS [SELECTION LOCATION DISPLAY]</p>	
Execute	<p>Selects, Locates, or Displays elements in accordance with the specified search criteria and Mode.</p> <p>SELECTBY ON</p> <p>Note: For criteria settings to be effective, the bottommost Mode option menu must be set to On.</p>	
Properties	<p>Opens the Select By Properties dialog, which is used to specify criteria based on less prominent element attributes, such as area and class.</p> <p>SELECTBY PROPERTIES</p>	
Tags	<p>Opens the Select By Tags dialog, which is used to specify criteria based on tag values. If selection criteria based on tag values are specified, elements that do not have attached tags with the specified tag name(s) will not be selected, located, or displayed.</p>	

Setting	Description												
	 <p>SELECTBY TAGS</p>												
<p>Tools > Set Select By from Element</p>	<p>Opens the Set Select By dialog, which is used to set the search criteria so they match an element's attributes.</p>  <table border="1" data-bbox="311 1211 775 1552"> <thead> <tr> <th>Control</th> <th>Criteria matched if on</th> </tr> </thead> <tbody> <tr> <td>Level</td> <td>Levels</td> </tr> <tr> <td>Symbology</td> <td>Symbology</td> </tr> <tr> <td>Type</td> <td>Types</td> </tr> <tr> <td>Properties</td> <td>Properties</td> </tr> <tr> <td>Class</td> <td>Class</td> </tr> </tbody> </table> <p>After you turn on the controls for the desired criteria, identify the element whose attributes you want to specify as criteria.</p>	Control	Criteria matched if on	Level	Levels	Symbology	Symbology	Type	Types	Properties	Properties	Class	Class
Control	Criteria matched if on												
Level	Levels												
Symbology	Symbology												
Type	Types												
Properties	Properties												
Class	Class												
<p>Tools > Selector Save Sets</p>	<p>Opens the Select By Save Sets dialog , which is used to save and retrieve sets of search criteria settings.</p>												

Setting	Description				
					
<p>Settings > Cell</p>	<p>Opens the Select By Cell dialog, which is used to specify a criterion based on the name of an unshared cell.</p>  <p>SELECTBY SETTINGS CELL</p>				
<p>Settings > Shared Cell</p>	<p>Opens the Select By Shared Cell dialog, which is used to specify a criterion based on the name of a shared cell.</p>  <p>SELECTBY SETTINGS SHAREDCELL</p>				
<p>Settings > Text</p>	<p>Opens the Select By Text dialog, which is used to specify criteria based on element attributes specific to text elements. Text strings are case-sensitive. For example, inputting the string "North" would select "North", but not "north", nor "NORTH".</p>  <table border="1" data-bbox="308 1951 963 2087"> <thead> <tr> <th data-bbox="308 1951 469 2009">Control</th> <th data-bbox="469 1951 963 2009">Key-in</th> </tr> </thead> <tbody> <tr> <td data-bbox="308 2009 469 2067">Font</td> <td data-bbox="469 2009 963 2067">SELECTBY TEXTFONT </td> </tr> </tbody> </table>	Control	Key-in	Font	SELECTBY TEXTFONT
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Setting	Description													
	Control	Key-in												
	Height	SELECTBY TEXTHEIGHT <text_height>												
	Width	SELECTBY TEXTWIDTH <text_width>												
	Justification	SELECTBY TEXTJUST <text_justification>												
	String	SELECTBY TEXTSTRING <text_string>												
	SELECTBY SETTINGS TEXT													
Settings > Text Node	<p data-bbox="308 544 1385 651">Opens the Select By Text Node dialog, which is used to specify criteria based on element attributes specific to text node elements. Text strings are case sensitive. For example, inputting the string "North" would select "North", but not "north", nor "NORTH".</p> <div data-bbox="619 694 1125 1019" style="border: 1px solid #00aaff; padding: 5px; margin: 10px auto; width: fit-content;"> </div> <table border="1" data-bbox="308 1059 1037 1400" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th data-bbox="308 1059 469 1120">Control</th> <th data-bbox="469 1059 1037 1120">Key-in</th> </tr> </thead> <tbody> <tr> <td data-bbox="308 1120 469 1176">Font</td> <td data-bbox="469 1120 1037 1176">SELECTBY TEXTNODEFONT </td> </tr> <tr> <td data-bbox="308 1176 469 1232">Height</td> <td data-bbox="469 1176 1037 1232">SELECTBY TEXTNODEHEIGHT <text_height></td> </tr> <tr> <td data-bbox="308 1232 469 1288">Width</td> <td data-bbox="469 1232 1037 1288">SELECTBY TEXTNODEWIDTH <text_width></td> </tr> <tr> <td data-bbox="308 1288 469 1344">Justification</td> <td data-bbox="469 1288 1037 1344">SELECTBY TEXTNODEJUST <text_justification></td> </tr> <tr> <td data-bbox="308 1344 469 1400">String</td> <td data-bbox="469 1344 1037 1400">SELECTBY TEXTSTRING <text_string></td> </tr> </tbody> </table> <p data-bbox="308 1406 675 1435">SELECTBY SETTINGS TEXTNODE</p>		Control	Key-in	Font	SELECTBY TEXTNODEFONT 	Height	SELECTBY TEXTNODEHEIGHT <text_height>	Width	SELECTBY TEXTNODEWIDTH <text_width>	Justification	SELECTBY TEXTNODEJUST <text_justification>	String	SELECTBY TEXTSTRING <text_string>
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