![JAVELIN® software by Weyerhaeuser]

# Release Notes
## Javelin® software v6.7
### Release date: September 2024

**Release Notes Content**

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# Description of Changes

For more detailed information, refer to the help file included with the program. To access the help file, click the Help button in the quick access toolbar.

## Vertical Wind Loads

Now define Wind magnitudes in User Loads to account for wind on floors and roofs. These vertical wind loads will be considered during load distribution and member design.
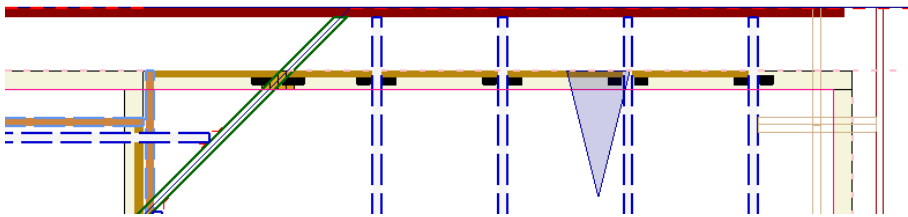
## Strap/Tie Connectors

Strap/Tie connectors will now be placed for roof joists and roof beams connecting to walls and beams.  These connectors are available to be user defined and are not designable.

| Roof Member To Wall Connector List | | | | |
|---|---|---|---|---|
| Supporting Mtl | Manuf | Product | Qty | Supported Mtl |
| E22 | User | Beam Strap | 1 | TS1 |
| E22 | User | Jst Strap | 4 | M6 |

Select the Strap/Tie connector(s), change the Connector Type to User, and specify a Solution.  The Product specified will show up in Layout Material Lists.  Add these products to resist uplift generated by wind loads input using User Loads.

## Miscellaneous

- The location of any objects above beams will now determine if the load transferred to the beam from the object is a top or side load for Multiple Member Connection Design.
- Edits to automatic Load Reference Areas (LRAs) or supporting members for the LRA loads now invalidate an automatic LRA.  The modified LRA will now need to be redefined before design can be completed.
- IBC 2024 building code with updated load combinations is now supported.
- Provincial building codes are now supported for the NBCC building code. Both the NBCC code version and the Provincial code version will be displayed on reports and Level Notes.
- Design messaging in the Member reports has been updated to include information about Cross Grain Tension and Edge Bracing.
- Now export wall information in EHX and EZX file formats for consumption by various saws for wall panelization and NextPhase ® WallPacks.
- Now use Submit Feedback to answer questions about your Javelin experience.
- SQL Server 2022 is now supported.  Newer versions of SQL Server are also allowed to be used.
- 3D View and the User Interface have been updated to use newer versions of third-party tools.
- Hanger design has been updated to include the newest product offerings for MiTek and Simpson Strong-Tie.

- Fastener design has been updated to include Multiple Member Connection solutions for commercial and 22" or 24" deep Microllam LVL products.

# Material Changes

Materials added:
- 9 ½" TJI® 560 (for IBC only, already available for NBCC)
- 2 x 4 M-9 Framer Series™ Lumber
- BA7.12/9.5, BA7.12/11.88, BA7.12/14, BA7.12/16, BA7.12/18, BA7.12/20, BA7.12/22, BA7.12/24, BA7.12/26, BA7.12/28, HGUS210, JB210A, JB212A, LSSR26Z, LSSR28Z, LSSR210Z Simpson Strong-Tie connectors.

Materials removed:
- All sizes of TJI s31, s33, s47 joists
- All depths of 2 11/16" 2.0E Parallam ® PSL and Parallam PSL (East)

Materials updated:
- All sizes of Parallam Plus have been renamed to Treated Parallam Plus
- All sizes of Microllam·® have updated $F_c$perp plank design values

# Defects Fixed

The following defects were fixed in version 6.7 of Javelin software:

- Now triggering the TJSC_E60: Lateral Restraint for End Support error for both ends of Roof Joists.
- Now displaying the Accessory properties for defining the default Blocking material when using the Cut Member Job Properties.
- Now able to share database settings when using a Network database configuration.
- Now updating the Time and Date data values in an Info Block on a Layout Sheet.
- Now use the Cancel button in the Beam justification property dialog to close the dialog without changing the property.
- Now see the Status Bar update when cancelling the import of a file to create a Trace Object.
- Now see the Level Name in any errors that are triggered when changing a Level Name in Job Properties.
- Now see correct hover over text for various objects:
  - See the type of accessory and length for Floor Framing Accessories.
  - See the floor container elevation, floor member depth, and decking thickness for Floor Containers.
  - See the manufacturer and product selected for Connectors.
- Fixed multiple crashes
  - Crash when opening jobs that have Global Stud Alignment defined
  - Crash when deleting entities with 3D view open (devDept.Eyeshot.EyeshotKeyedCollection`1.get_Item)

- o Crash when updating the model with Layout Sheet/Print Layout Sheet open (devDept.Eyeshot.Entities.BlockReference.#=zyrhDYoeHA2ZhDJmb7Q==)
- o Crash when exiting Stacking after you have changed configuration of the windows
- o Crash with spaces in name for Export to DWG
- o Crash when running design mechanical connectors

# System Requirements

## Minimum System Requirements:

- CPU:  Intel Core i5 (6$^{th}$ generation) 2.3GHz or better
- L3 Cache:  6 MB
- RAM:  4GB DDR3 (8GB for Multi Family Design)
- Video:  1280x1024 256MB
- Mouse:  Scroll Mouse
- Storage:  50GB free storage (average 6,000–8,000 jobs)
- Supported Operating Systems:
  - Microsoft® Windows® 11 64-bit
  - Microsoft® Windows® 10 64-bit

**Note:** The software only supports the English language version of Windows.

## Recommended System Requirements:

- CPU: Intel Core i9 (12$^{th}$ generation) 2.8Ghz or better
- L3 Cache:  16 MB
- RAM:  32GB DDR4/SDRAM or better
- Video:  1900x1080 60Hz w/512MB dedicated video card
- Mouse:  Optical Mouse w/scroll wheel
- Storage:  100GB free storage (average 12,000+ jobs)

**Note:** Testing has determined that meeting or exceeding these recommended system requirements will provide the designer with improved software performance across a broad range of file sizes.

## SQL Server

A minimum of SQL Server 2014 is required to run the Javelin application.  If SQL Server 2014 or newer exists on the computer, it will be used for the Javelin database.  When no valid version of SQL exists, SQL Server 2019 will be installed.

## Microsoft Excel

A minimum of Excel 2007 is required to use the Export to Excel function.  Microsoft Excel is not installed with the Javelin software.

## Tips on Buying a New Computer:

When considering a new computer system to run Javelin software, here are some points to think about:

- **Processor:** Processors have the biggest overall impact on the performance of Javelin software. Select the best processor you can afford. In general, it is better to select a processor with:

    o Higher maximum clock speeds - at least 2.93 GHz with automatic overclocking like Turbo Boost or Turbo Core technologies
    o Larger amounts of shared cache - at least 4MB
    o Integrated Memory Controllers
    o Compatibility with faster memory - DDR3 1066 MHz or faster
    o 2 or more cores
    o Recommended processors include Intel® Core™ i5 and Core™ i7 (Quad Core) or equivalent AMD processor.

    Multi-core processors will typically help improve performance when running multiple applications alongside Javelin software. Javelin uses limited Hyper Threading technology to enhance performance when appropriate.

- **RAM:** In general, you want to buy the fastest RAM you can afford which is compatible with your processor. At least 16GB is recommended for systems. This is typically the cheapest option to increase hardware performance.

- **Video Card:** In general it is best to avoid integrated graphics for Javelin or any CAD application. Select a professional graphics card that:

    o Supports multiple monitors
    o Has at least 512MB of dedicated video memory
    o Fully supports DirectX 9 and newer
    o Intended for use with CAD applications

    Cards based on the NVIDIA Quadro series or ATI FirePro series are intended for use with CAD programs. High-end graphics cards may be a worthwhile investment for a designer who regularly works on large custom homes, multi-family and light commercial projects to improve "Plan View" navigation performance.

- **Hard Drive:**  Hard drive upgrades (for example, 10,000 RPM SATA drives or Solid State Drive) may help reduce the time to load or save a job but provide little overall improvement to Javelin software performance for most users.

## Javelin Program Settings Which May Affect Performance

**Undo – Redo Level:** Changing this setting to "Off" can reduce memory usage as well as speed up performance. For example, turning off Undo-Redo during plot cleanup allows each label and hex move operation to complete sooner because an undo save is not performed with the move of each label or hex.   However, when operating without the Undo safety net you may have to do quite a bit of rework if you accidentally make an unwanted change.

**Save Preferences\Auto Save:** Auto Save can make some operations take much longer than expected. Turning off Auto Save or increasing the Auto Save interval can reduce the amount of time you wait for an auto save to complete. The downside to these adjustments is that you may lose work if you forget to periodically perform a manual save.

**View and Selection:**

a.  Dialog Settings: Changing this setting to "Always" can make the system seem slower as you are waiting for dialogs to display and close.
b.  System\Prevent Label Collisions: Setting this to "Yes" can cause dramatic slowdowns. Never turn this on with large jobs.

**Warnings and Messages:** Choosing to show all messages can make the system appear slower as you are waiting for message dialogs to open and close. Customizing warnings to only display messages you want to see can improve perceived performance.

**Walls\Wall Update\Auto Renumber:** Setting this to "Yes" can have a negative impact on performance.