

1 Database Editor Tutorial 1 – Modifying Custom Databases (US)

1.1 Software Version and Standard

This tutorial was completed using WoodWorks® US 2019, and NDS 2018.

1.2 Introduction

The *Database Editor* allows you to modify Custom database files by adding, deleting, or editing the material, species, grade, or section properties.

The following steps describe how to create a new LVL database from scratch.

1.3 Opening New Material Window

1. Click the **New** button on the toolbar.
2. Name the New Material by assigning a **Material Name** and **Filename**.
3. Select **Structural Composite Lumber (PSL, LVL, etc.)** under the **Material Type** list.
4. Click on **OK**.

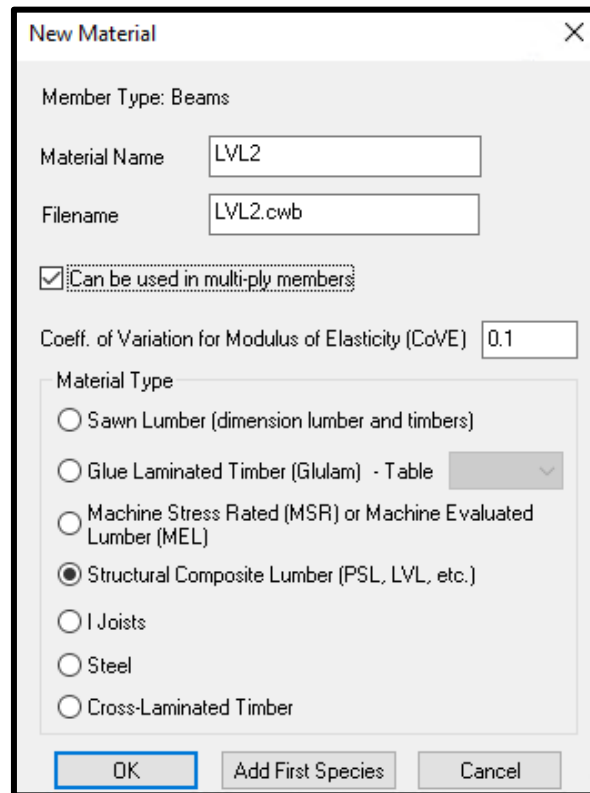


Figure 1: Database Editor Tutorial 1 – Input for New Material Window

1.4 Input Species Properties

1. Select the **New Species** under the **Species** list and click the **Edit** button on the toolbar.
2. Name the New Species by assigning a **Species Name** and **Weight**.
3. Click on **OK**.

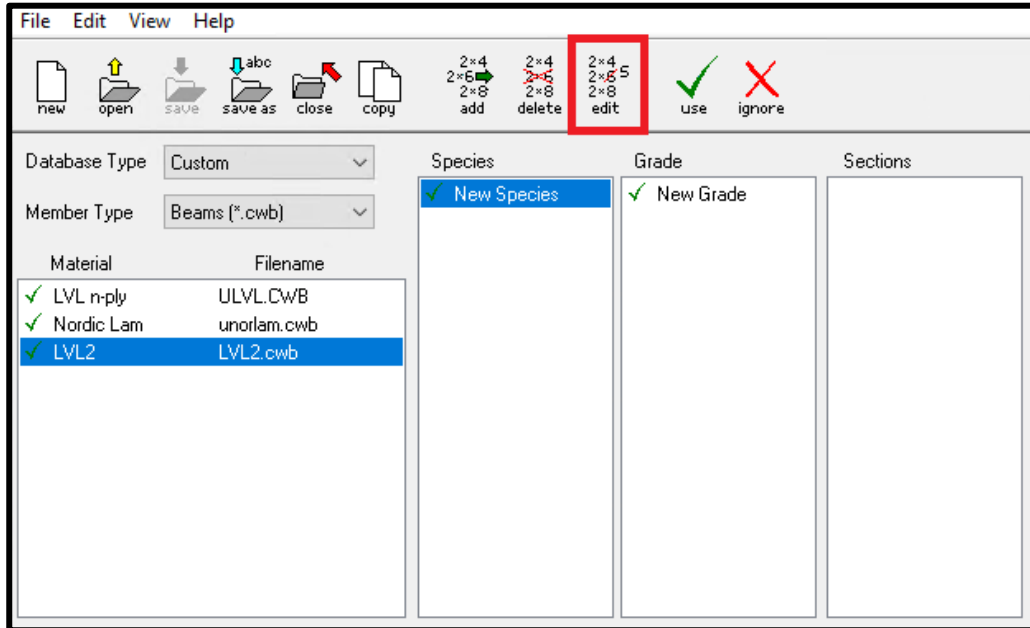


Figure 2: Database Editor Tutorial 1 – Edit the New Species

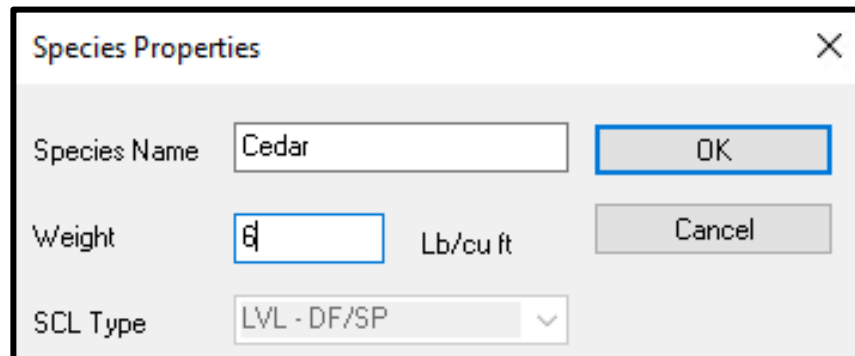


Figure 3: Database Editor Tutorial 1 – Input Species Properties

1.5 Input Grade Properties

1. Select **New Grade** under the **Grade** list and click the **Edit** button on the toolbar.
2. Name the New Grade by assigning a **Grade/Combination Name**.
3. Input the **Allowable Stresses (psi)** and **Moduli of Elasticity (million psi)** values.
4. Click on **OK**.

Note: In the case of this example, the allowable stresses and modulus of elasticity have been based on Alaskan Yellow Cedar. Information of this nature for custom products should be available through the manufacturer.

Grade Properties

Grade/Combination Name: Random Cedar

Allowable Stresses (psi)

Bending: Fb = 1150, Fby = 1150

Shear: Fv = 165, Fvy = 165

Tension: Ft = 625

Compression: Fc = 1000, Fcp = 525, Fcpy = 525

Moduli of Elasticity (million psi): E = 1400000, Ey = 1400000, Emin = 0.528E

Specified strengths are Working Stress Design (WSD) values

Figure 4: Database Editor Tutorial 1 – Input Grade Properties

1.6 Input Section Properties

1. Select **(unknown) x (unknown)** under the **Sections** list and click the **Edit** button on the toolbar.
2. Input the **Actual Size (in.)**, **Volume Factor K^*** and **Stock Length (feet)** values.
3. Click on **OK**.

Section Properties

Actual Size (in.)

b

d

Volume Factor*

Cv

Stock length (feet)

L

* Corresponding grade properties are multiplied by these factors

OK

Cancel

Figure 5: Database Editor Tutorial 1 – Input Section Properties

1.7 Save File

1. Click the **Save** button on the toolbar.

Note: Installing updates of the custom database will erase any modifications made previously. Remove checkmark from custom database during the installation process to retain your original copy of the custom database.

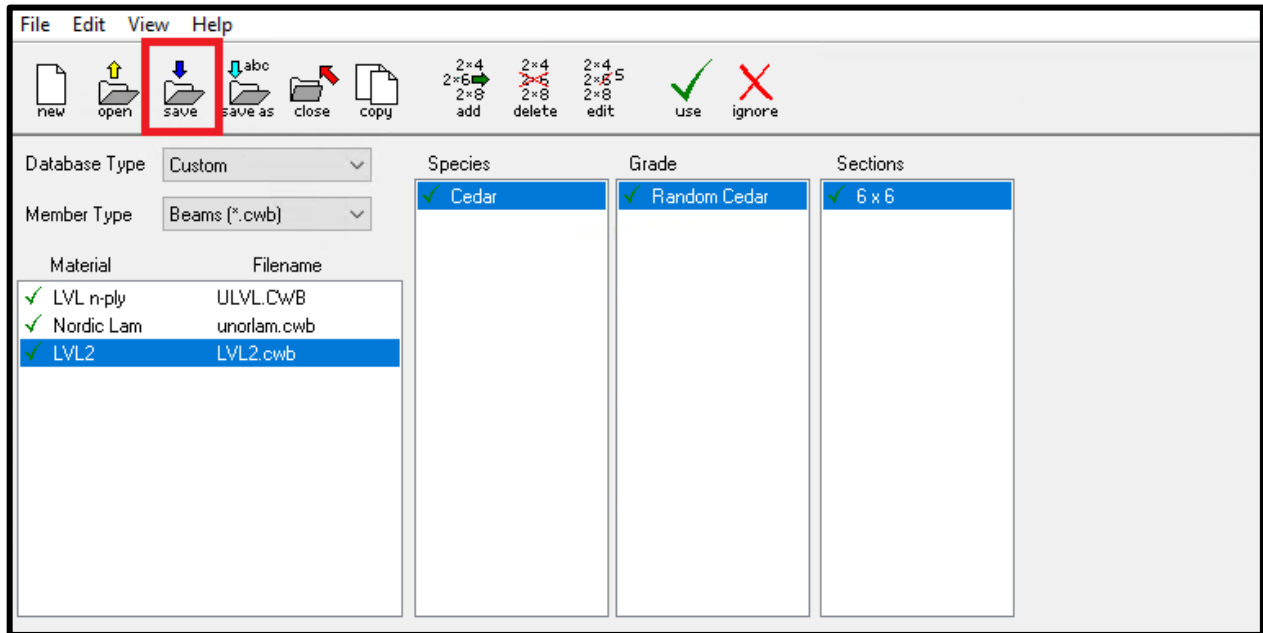


Figure 6: Database Editor Tutorial 1 – Save File