



# User Guide

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## **MiTek SidePlate Component for SDS2**

*SDS2 2020*



Please make sure to read the **MITEK SIDEPLATE COMPONENT FOR SDS2 INSTALLATION** for the SDS2 version currently in use. After following the instructions for installing SDS2 and the MiTek SidePlate Component for SDS2, you are ready to start using the SidePlate Components.

**NOTE: YOU WILL NEED TO CONTACT SIDEPLATE FOR THE PROJECT XML FILE CONTAINING THE SIDEPLATE CONNECTIONS.**

### ADDING ICONS TO THE TOOLBAR

You will want to add the *SidePlate Individual Connection Tool*, *SidePlate Grid Matching Tool*, and *SidePlate Project Setup Tool* icons to your **Modeling** toolbar. To do this:

1. While in **Modeling**, from the **Options** pull-down menu, select **Toolbar Configuration**.
2. Select **Model -- Parametric** for the **Command Group**, as shown in Figure 1.
3. Drag and drop the *SidePlate Individual Connection Tool* icon on to your toolbar.
4. Drag and drop the *SidePlate Project Setup Tool* on to your toolbar.
5. Drag and drop the *SidePlate Grid Matching Tool* on to your toolbar.
6. Hit **OK**.
7. The *Save Configuration File* screen will appear, asking you to save the toolbar. By default, the current toolbar name will be listed. You can either hit **OK**, which will save as the same name, or change the name and hit **OK**.
  - a. If you leave the same name, you will need to hit **Yes** to overwrite the file.
  - b. If you create a new toolbar file, you will need to specify that in **User Options**, under **Configuration Files**.

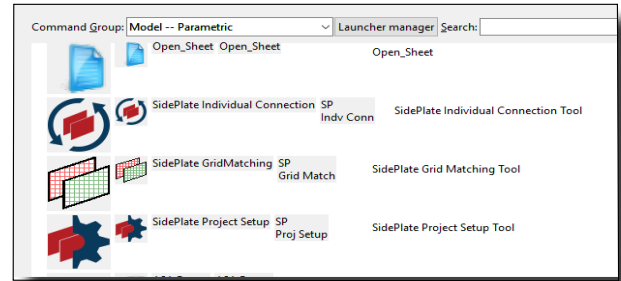


Figure 1: Toolbar Configuration

### SIDEPLATE TERMS AND CONDITIONS

To help facilitate what our component does and does not do, we have added our terms and conditions to our component. Before work can start on a project, the user of the SidePlate Component must agree to the terms and conditions. Reference Figure 2.

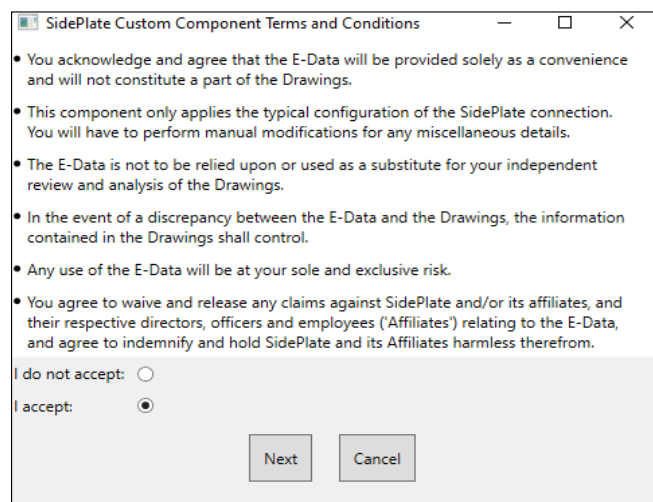


Figure 2: Terms and Conditions

## SIDEPLATE PROJECT SETUP TOOL

After adding the icons to your toolbar, select the SidePlate Project Setup Tool. A **SidePlate SDS2** screen will appear, as shown in Figure 3.

### Matching

Under the *Matching* tab to sync the *SidePlate Values* with the *SDS2 Model Value*. In the *Model Value* column, you select the correlating SDS2 values from the drop-down menus. After those values have been set, click the **Update XML** button.

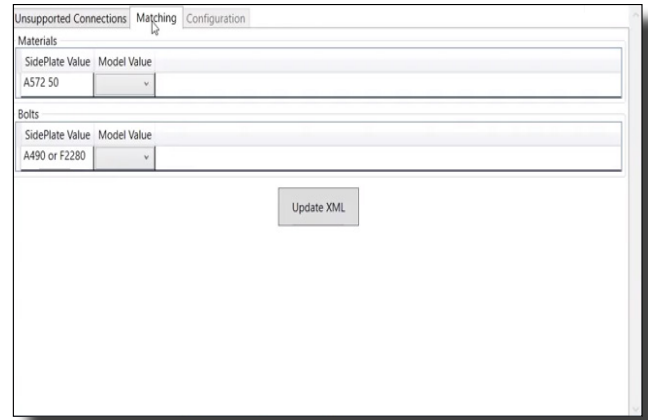


Figure 3: Matching

### Configuration

The *Configuration* tab, as shown in Figure 4, is where you can align and fine-tune materials, weld tail notes and miscellaneous values of the XML.

To do this, you can either select a value in the drop-down menu or update a text value. After you are finished making changes, click the **Update XML** button.

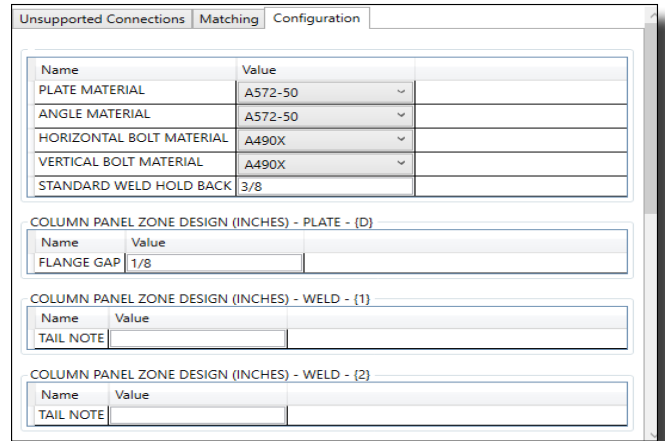


Figure 4: Configuration

## SIDEPLATE INDIVIDUAL CONNECTION TOOL

This tool allows you to add SidePlate connections to members in your SDS2 project.

1. In **Modeling**, open a view where you will be applying the SidePlate connections.
2. Select the *SidePlate Individual Connection Tool* icon.
3. Select your column and beam(s) where you want to apply the connection.
4. The **SidePlate SDS2** screen will appear as shown in Figure 5.
5. Under the *Connection ID* heading, you can select the type of connection you want to apply. After picking the appropriate type and select the **Apply Connection** button.
6. You will then see the connection applied to your members.

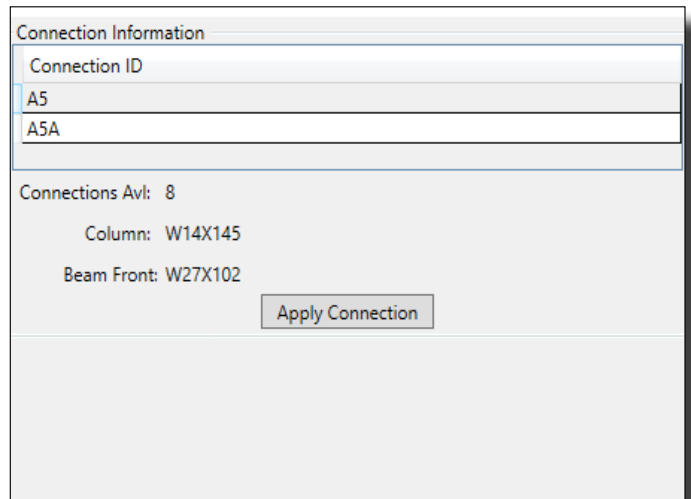
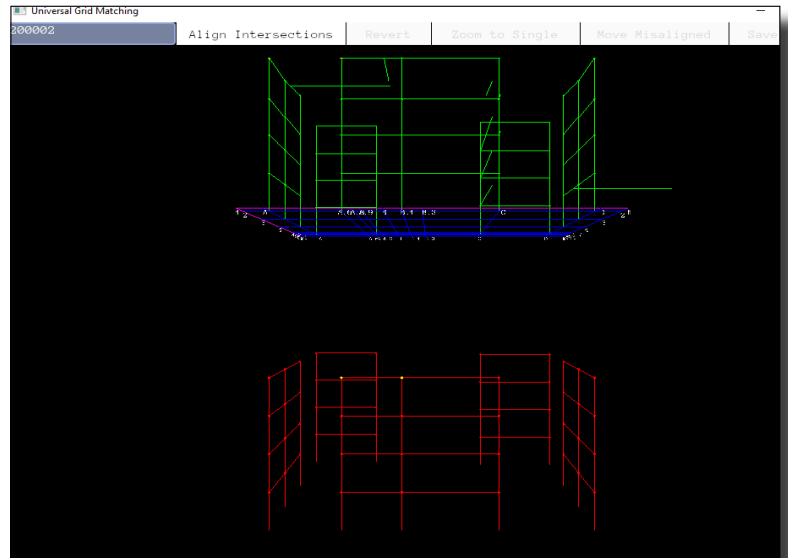


Figure 5: Individual

NOTE: Please make sure to consult your contract drawings from SidePlate in order to confirm what connection types should be applied.

## SIDEPLATE GRID MATCHING TOOL

1. In a view in **Modeling**, select the *SidePlate Grid Matching Tool*.
2. \*If there are multiple structures in the project that contain SidePlate connections, make sure to select the correct structure from the drop-down in the top left.
3. Next, select the **Align Intersections** button, as shown in Figure 6.
4. Follow the instructions in the **Grid Matching Status Bar**, located in the lower left.
5. Select two red discs in close proximity of each other, on the same floor.
6. Select the two matching green discs on the structure. This will align as many intersections as possible based on the algorithm in the *Grid Matching Tool*. If there are any misaligned intersections, the application will select them and zoom in for ease of alignment.
  - a. Click **Move Misaligned** and select one red disc then a green disc. This will attempt to move and/or align all selected intersections again.
  - b. If there are any remaining misaligned connections, repeat step 6a.
7. Next, select **Save** which updates the SidePlate XML file with the newly aligned intersection's coordinates.
8. Now, select **Apply SidePlate Connections**. The structure will now be updated with SidePlate connections. This may take a few minutes depending on the size of your structure.
9. To see more information, just double-click on the SidePlate connection.



**Figure 6: Grid Matching**

**\*NOTE:** If there are multiple buildings in this drop-down, the grid matching process will need to be repeated for each building.