Rib Support Recommendation Tool V1.00 (RSR) Manual

Installation Instruction

If MATLAB is already installed on your computer, you can directly use the “Exe_file_only” file to run the RSR tool. If you don't have MATLAB or the MATLAB runtime installed on your computer, use the “**RSRV1.001_web_Installer**” to install both MATLAB runtime and the RSR tool on your computer. Note that an internet connection is required to download MATLAB runtime.

How to use the RSR tool

This section provides stepwise instructions for using the tool, discussing each step in detail. Figure 1 shows the tool's main interface, including the input data panel, and suggestion output.

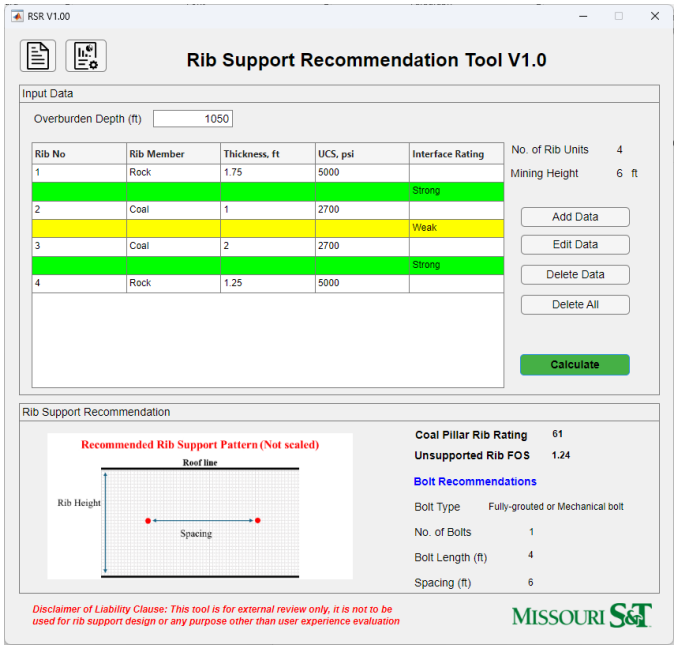

Figure 1. The interface of the developed RSR tool

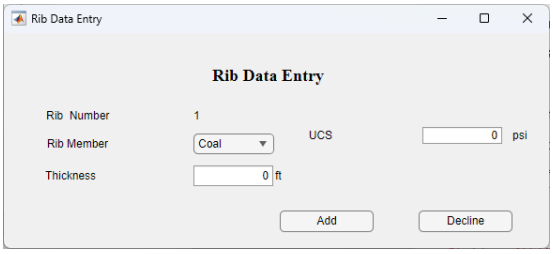

Figure 2. Rib data entering form

Step 1: The user must provide initial information for the survey data. This can be done by manually entering, editing, or deleting data through the "Add Data, Edit Data, Delete Data" buttons. The form for entering rib data is illustrated in Figure 2. The data entered will be displayed in the table, as depicted in Figure 1.

Step 2: The user must enter the Overburden depth in the main dialog and then click the "Calculate" button to receive support recommendations. The rib support recommendations will be provided in the "Rib Support Recommendation" panel at the bottom of the tool.

Step 3: The user can export the results to a PDF by clicking the export button in the top left-hand corner.