SCTB 4.1 RELEASE NOTES

NOVEMBER 2015 (BUILD 21112)

This document summarizes the installation notes and changes incorporated in StressCheck Tool Box (SCTB) 4.1, build number 21112 released in November 2015. Beginning with SCTB 4.0, the build number is available in the SCTB Help window.

INSTALLATION NOTES

SCTB 4.1 is a 64 bit product which supports Windows 7. The Microsoft .NET 4.5 framework is required for installation.

NEW FEATURES IN SCTB 4.1

The Single Fastener Analysis Tool (SFAT), Multiple Fastener Analysis Tool (MFAT), and Laminated Composite Analysis Tool (LCAT) have all been upgraded to support both customary US units (in/lbf/sec/F) and SI units (mm/N/sec/C). All input fields, validation rules, tooltips, computed data, and exportable StressCheck files have been updated to support the new SI unit system where appropriate.

SCTB 4.0/4.1 RELEASE NOTES

SCTB 4.1 is a completely 64 bit product, supporting the development of larger and more advanced tools. SCTB is powered by the 64 bit solver in StressCheck 10.1; all enhancements and fixes in the StressCheck Professional solver since the SCTB 3.0 release are automatically incorporated into SCTB 4.1.

The SCTB Export option for solved files replaces the StressCheck input file (*.sci) with the StressCheck workfile (*.scw) and replaces the StressCheck dataset folder with the StressCheck project file (*.scp). These new file types are compatible with StressCheck 10.1 Professional; please review the Professional documentation for file type details.

The MFAT solver is now more likely to converge and successfully solve for problems with excessive clearance or for some problems that previously generated a "solution did not converge" warning message in SCTB 3.0.

Many minor enhancements and issues have been identified and resolved including various user interface tooltip and validation rules, principal direction arrows for LCAT are better-scaled, contour plot fringe blending is turned off for better solution assessment, and others.