

ANSYS Workbench Class3**Error Report****ERROR NO:**
WB2012-18**Keywords:**

COMPOSITES	LAYERED SECTION	THICKNESS	UNITS
SOLVER UNITS	MEMBRANE OFFSET		

Description of Error:

The layer thickness defined in a Layered Section object and the membrane offset defined in a Layered Section, Thickness, or Imported Thickness object will be interpreted incorrectly if the active units do not match the solver units. These values will always be in the active units, regardless of what solver units have been selected in Analysis Settings.

Typical GUI Path(s):

Under Analysis Settings, change the Solver Units from Active System to Manual, and set the Solver Unit System to something other than the active units. Then, the following properties will be affected:

1. Under Geometry, insert a Thickness object and set Offset Type to User Defined. The Membrane Offset value will be incorrect.
2. Under Geometry, insert a Layered Section object and define one or more layers in the Worksheet. The Thickness values of each layer will be incorrect.
3. Under Geometry, insert a Layered Section object and set the Offset Type to User Defined. The Membrane Offset value will be incorrect.
4. Under Geometry in a model with Imported Thickness, set the Offset Type of the Imported Thickness to User Defined. The Membrane Offset value will be incorrect.

Other Comments:

The error only occurs when using the Mechanical APDL solver.

First Incorrect Version:

Release 14.0

Corrected In:

Release 15.0

Suggested User Action For Running on Uncorrected Version:

Under Analysis Settings, set the Solver Units to the Active System.

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