

ANSYS Class3 Error Report**ERROR NO:**

2012-03

Keywords:

SURF251 RADIOSITY THERMAL RSURF

Description of Error:

If a SURF251 (2-D Radiosity Surface) element is generated on an underlying two-dimensional solid element (RSURF command) that has a clockwise nodal connectivity, the resulting view factors are incorrect, leading to an incorrect thermal solution.

Typical GUI Path(s):**Other Comments:**

This problem does not exist for SURF252 elements that are generated on three-dimensional solid elements.

First Incorrect Version:

Release 5.6

Corrected In:

Release 11.0

Suggested User Action For Running on Uncorrected Version:

Change the 2-D solid element connectivity so that it is counter-clockwise. If there are surface loads acting on the element faces they may also have to be adjusted accordingly.

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