

ANSYS Workbench Class3 Error Report

ERROR NO:

WB2015-02

Keywords:

RADIATION

Description of Error:

Surface-to-surface radiation loads (radiation scoped to faces), defined in Mechanical, can give erroneous results under the following scenarios:

- When two or more surface-to-surface radiation load objects share one or more edges or vertices.
- When thin geometry has only one element through thickness, and two or more surface-to-surface radiation load objects are applied to the two external faces of these elements.

The error occurs due to creation of duplicate radiosity surface elements on the element faces sharing the underlying elements.

Typical GUI Path(s):

Steady State/Transient Thermal>Insert>Radiation

Other Comments:

The mentioned scenarios result in the creation of duplicate radiosity surface elements, which leads to an incorrect computation of viewfactors.

First Incorrect Version:

Release 12.1

Corrected In:

Release 16.0

Suggested User Action For Running on Uncorrected Version:

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