

Creating Non-Geometric Elements

Use *Non-Geometric Elements* to directly create a new calculation point in the thermal model. Any conductances to this "element" must be specified directly using *Thermal Couplings* or *Additional Conductances*; in other respects they are identical to "geometric" elements in the thermal model. You may select *Non-Geometric* elements explicitly in any TMG entity.

[Locate the icon.](#)

You can fix the temperature of the non-geometric element. To model a time varying temperature profile, use *Interpolation Relationships*.

A non-geometric element may also be defined with phase change properties. Enter the phase change temperature, the latent heat, and the capacitance in the higher temperature phase (the nominal capacitance is interpreted as the capacitance in the lower temperature phase).

Special Elements

There are three special Non-Geometric elements:

- SPACE
- AMBIENT
- LOW AMBIENT

The SPACE element is the *Space Enclosure*, which is used for modeling an ambient radiative environment (see *Defining a Space Enclosure*).

The AMBIENT element is the ambient fluid for duct flow or convection modeling.

The LOW AMBIENT element is identical, except that it is used in certain *Free Convection* correlations to indicate the direction of the heat transfer process (see *Defining Ambient Conditions*).

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