

ANSYS - Plate With a Hole

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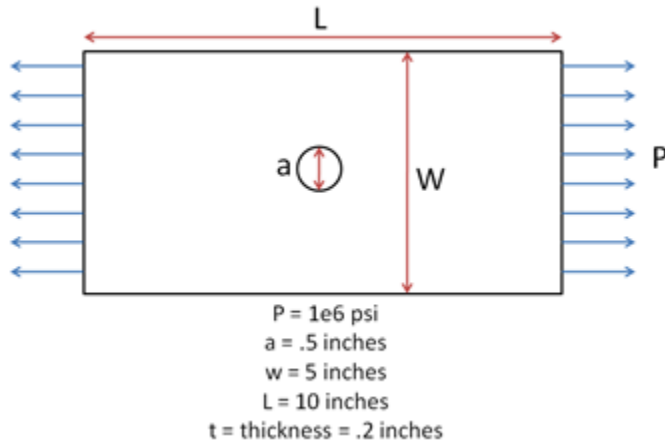
Plate With a Hole

i This module is from our [free online simulations course at edX.org](#) (sign up [here](#)). The edX interface provides a better user experience and the content has been updated, so we recommend that you go through the module [there](#) rather than here. Also, you will be able to see answers to the questions embedded in the module there.

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Problem Specification

Consider the classic example of a circular hole in a rectangular plate of constant thickness. The plate is A514 steel with a modulus of elasticity of 29e6 psi and a Poisson ratio of 0.3. The thickness of the plate is .2 in., the diameter of the hole is .5 in., the length of the plate is 10 in. and the width of the plate 5 in., as the figure below indicates.



This tutorial will show you how to use ANSYS Workbench to find the displacement and the stresses in the plate.

[Go to Step 1: Pre-Analysis and Start-Up](#)

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