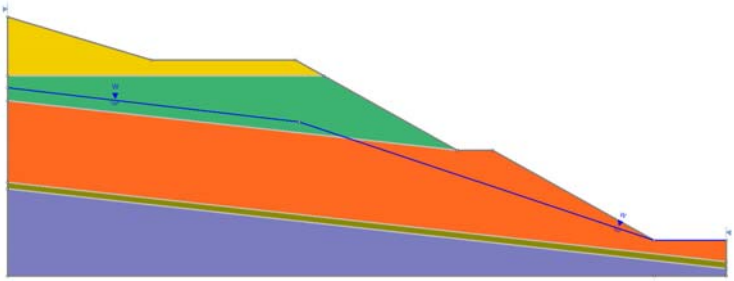
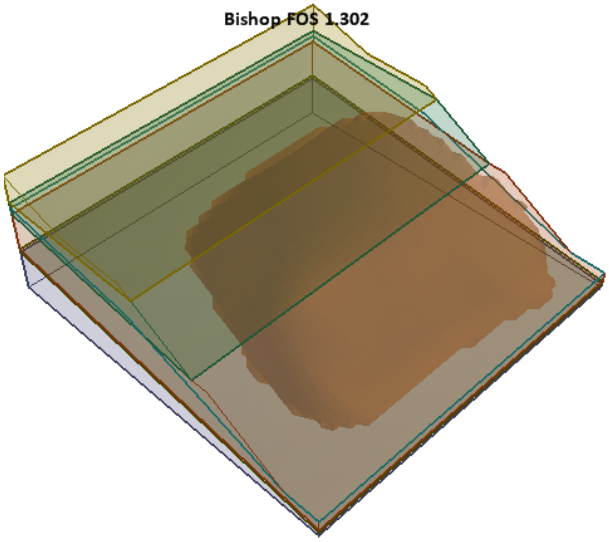
2D Extruded Index by File

Slope Stability Verification

Rocscience Inc.





Slope Stability Verification – Index by File – 2D Extruded Models

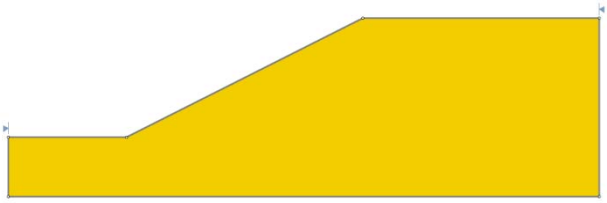
Introduction

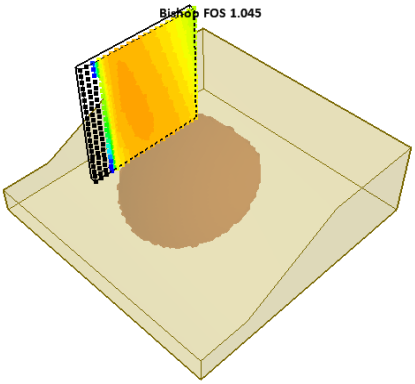
The Slope Stability Verification of programs Slide^3, RS^3, Slide, and RS^2 is separated into three different types of models which create three separate verification documents and their corresponding indexes. These model types are 2D extruded models, 2D swept models, and 3D models. Each example contains its model type as the first part of its keyword description. The verification is separated by model type for easier identification of specific models or specific types of models. This is the index for the 2D extruded models.

A 2D extruded model is a 2D cross section that has been extruded a given distance in the 3D programs, without altering the shape of the cross section at all throughout the model. These examples may have features such as multiple materials, water tables, and loading, which will all be extruded across the entire model. Examples with weak plane defined slip surfaces may also be included in this index, as long as the slope itself is a 2D extruded model. Elements such as micropile supports will be placed throughout the model, not extruded to create a wall of support. All of these models consist of examples taken from the 2D Slide verification and extruded in Slide^3, or 2D extruded examples found in reference material such as journal and conference proceedings.

This index contains the name of each 2D extruded verification example, its keyword description, and two pictures of the example. The keyword description for each of these models will start with '2D extruded,' to easily identify the type. The numbers of the verification examples found in this index match the number of the example found in the Verification document. The keyword description generally describes the most important elements of the model, and can also be found in the Table of Contents of the Verification under the name of the given example, and under the title of the example in the main body of the Verification. The verification titles only give their number, not a description of the model, so these keywords are useful for identifying specific models. The pictures given in this index show a preview of the 2D Slide model for the verification, as well as an isometric view of the 3D Slide^3 model with the slip surface. The pictures are useful for matching an example's appearance with its number and description.

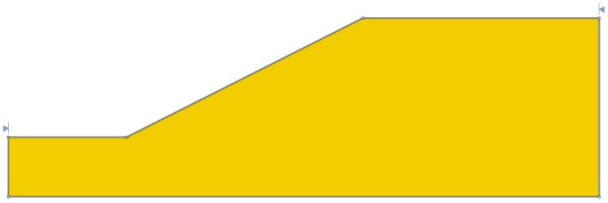
2D Extruded Verification #001

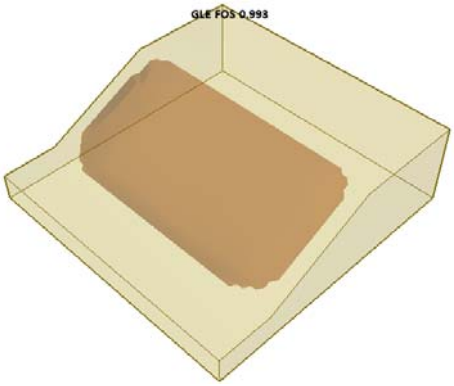




2D extruded, homogeneous, spherical

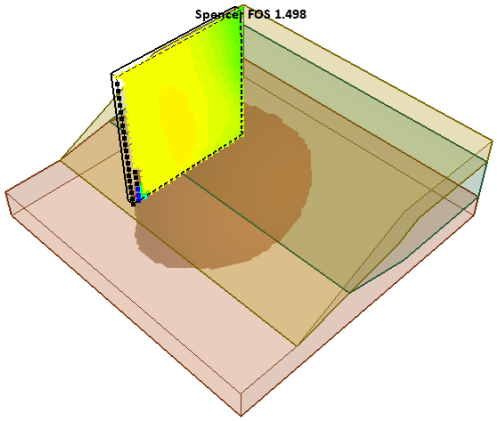
2D Extruded Verification #002





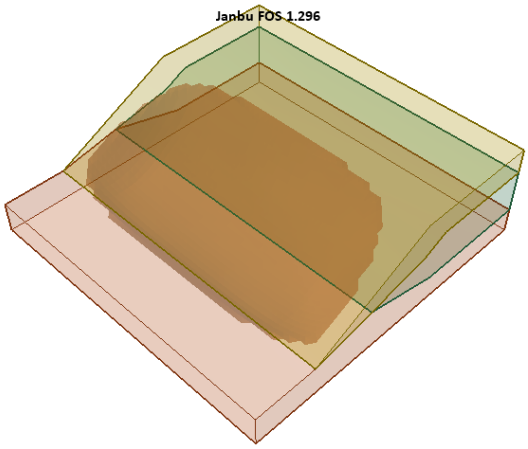
2D extruded, homogeneous, ellipsoidal with SA

2D Extruded Verification #003



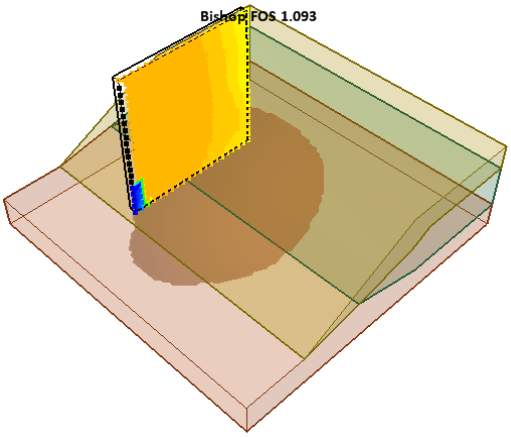
2D extruded, (3) materials, spherical

2D Extruded Verification #004



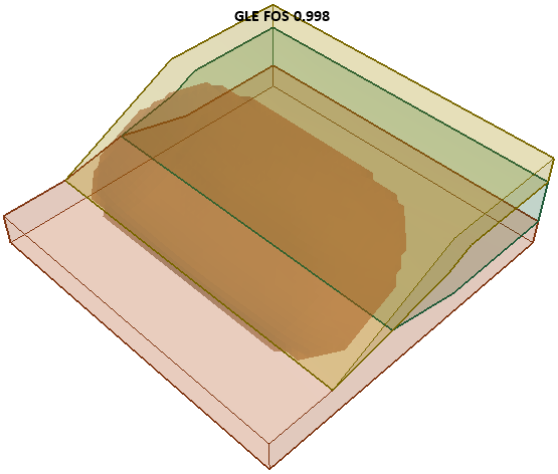
2D extruded, (3) materials, ellipsoidal with SA

2D Extruded Verification #005



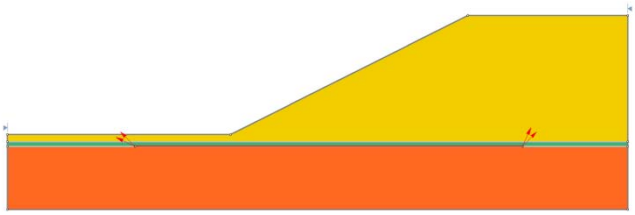
2D extruded, (3) materials, seismic, spherical

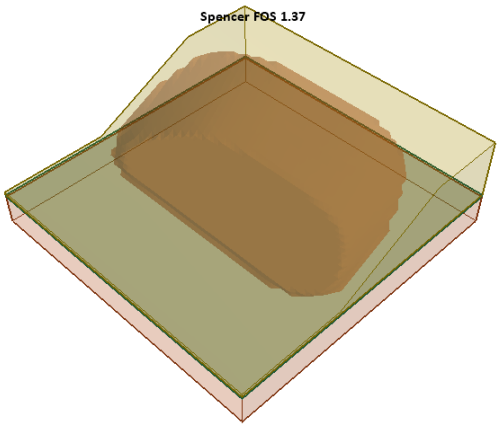
2D Extruded Verification #006



2D extruded, (3) materials, seismic, ellipsoidal with SA

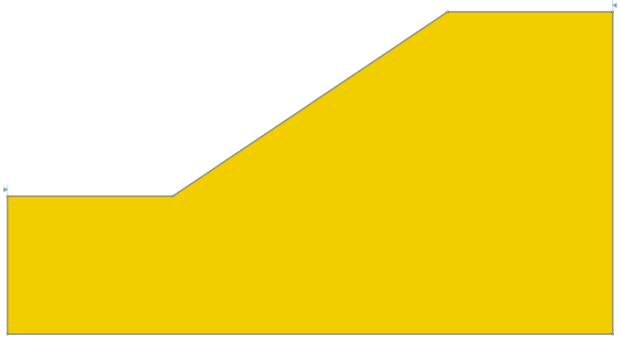
2D Extruded Verification #007

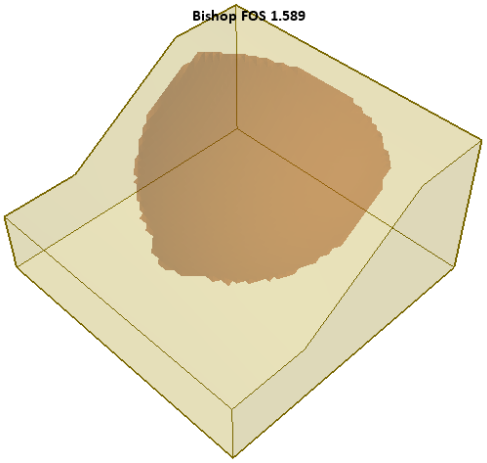




2D extruded, weak layer, infinite strength base, ellipsoidal with SA

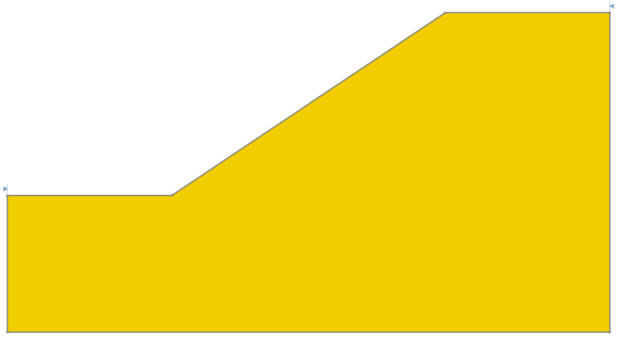
2D Extruded Verification #008

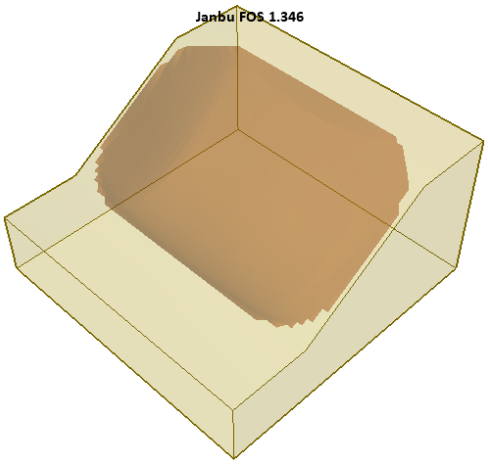




2D extruded, homogeneous, spherical

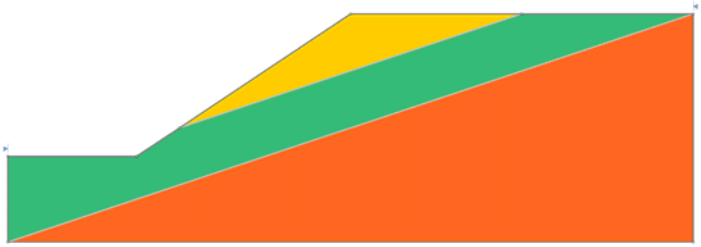
2D Extruded Verification #009

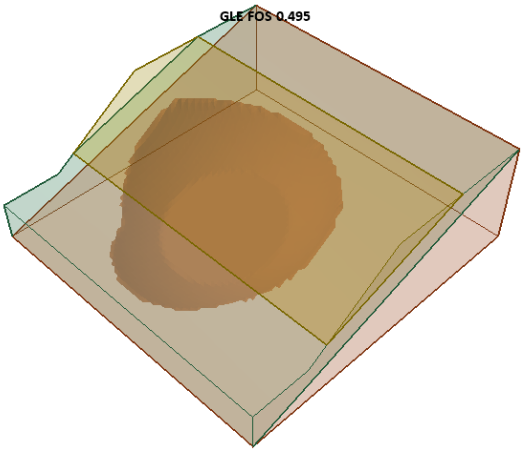




2D extruded, homogeneous, ellipsoidal with SA

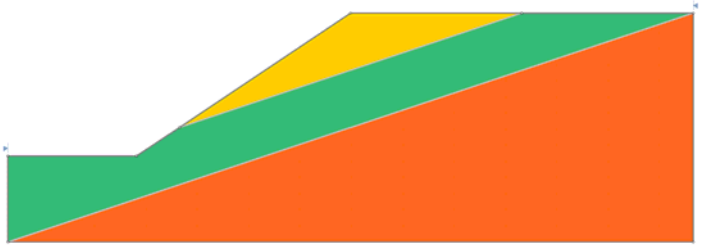
2D Extruded Verification #010

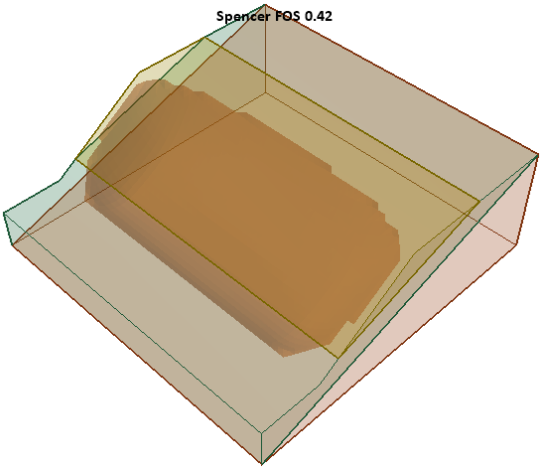




2D extruded, (3) materials, spherical

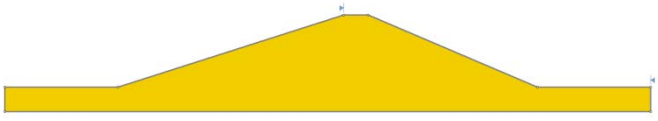
2D Extruded Verification #011

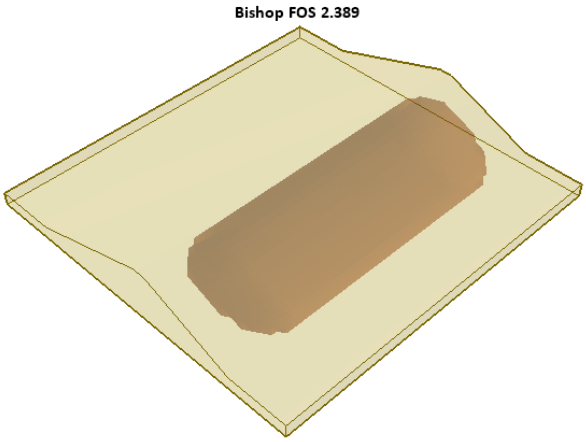




2D extruded, (3) materials, ellipsoidal with SA

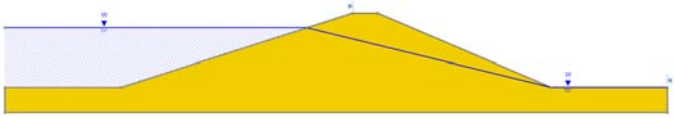
2D Extruded Verification #012

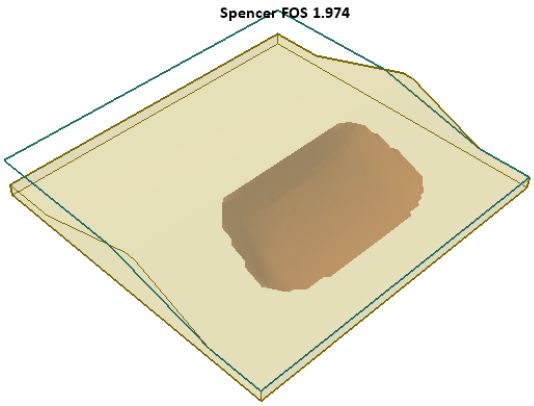




2D extruded embankment, homogeneous, empty reservoir, ellipsoidal

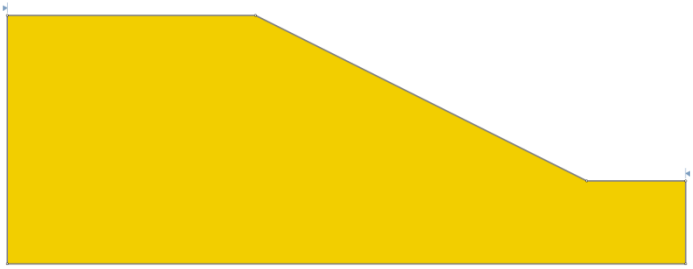
2D Extruded Verification #013

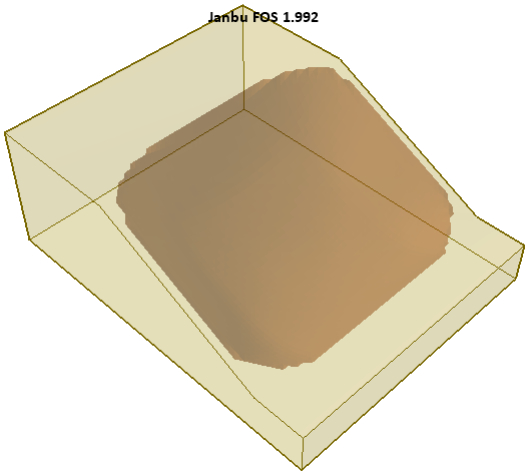




2D extruded embankment, homogeneous, full reservoir, ellipsoidal with SA

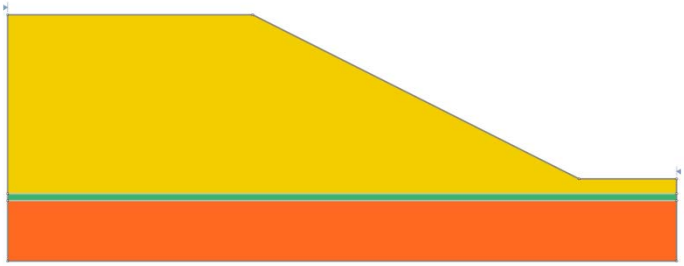
2D Extruded Verification #014

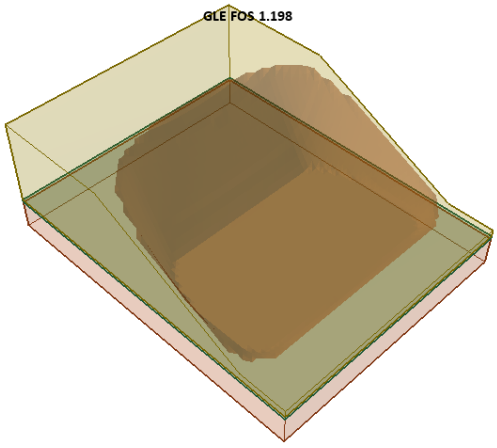




2D extruded, homogeneous, ellipsoidal with SA

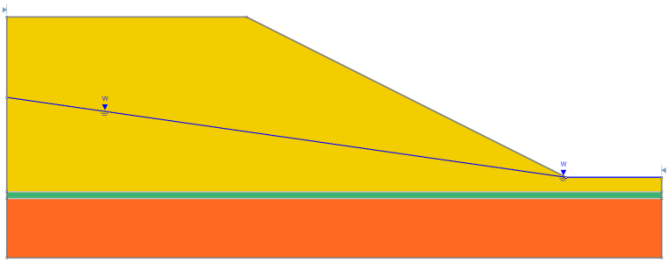
2D Extruded Verification #015

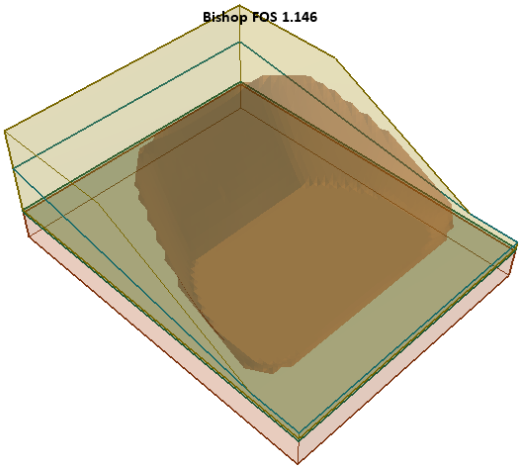




2D extruded, weak seam, ellipsoidal with SA

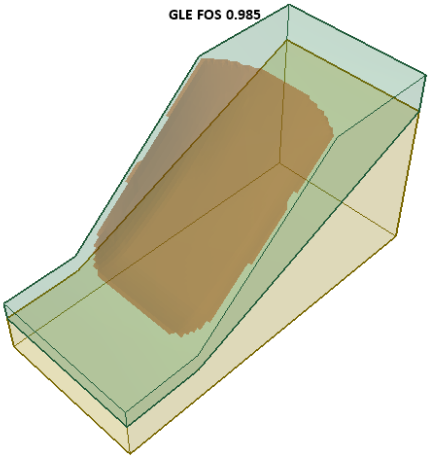
2D Extruded Verification #016





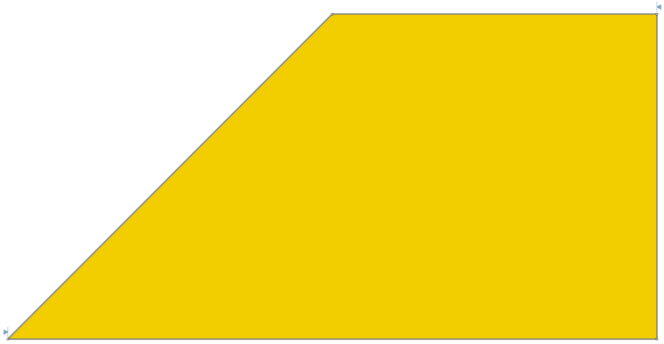
2D extruded, weak seam, water table, ellipsoidal with SA

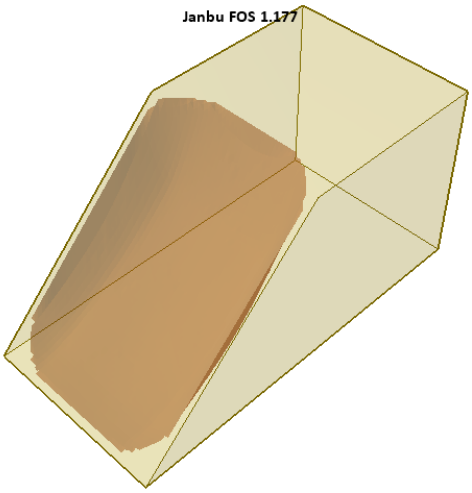
2D Extruded Verification #017



2D extruded, (2) materials, ellipsoidal with SA

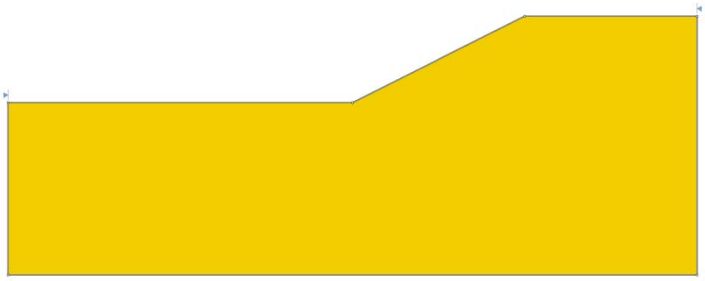
2D Extruded Verification #018

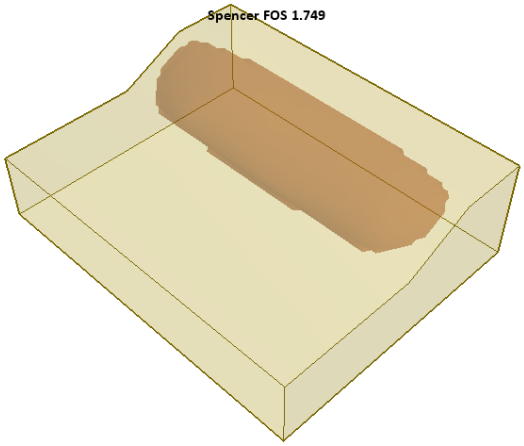




2D extruded, homogeneous, ellipsoidal with SA

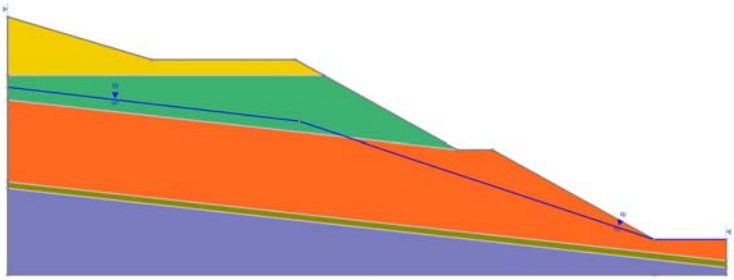
2D Extruded Verification #019

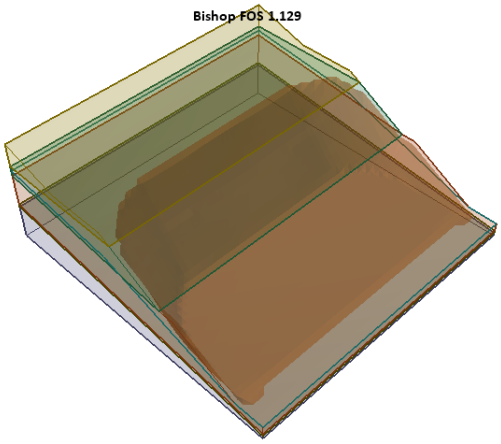




2D extruded, homogeneous, ellipsoidal with SA

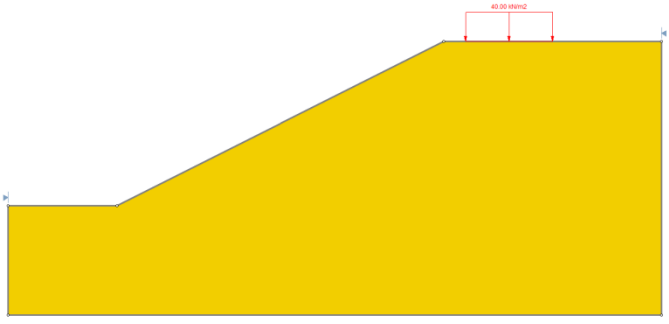
2D Extruded Verification #020

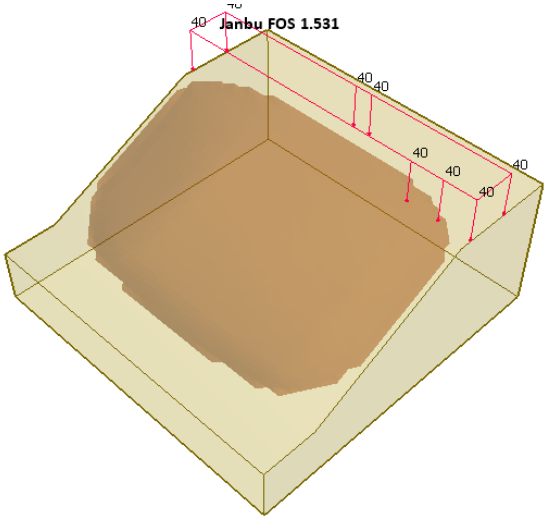




2D extruded, (4) materials + weak layer, water table, ellipsoidal with SA

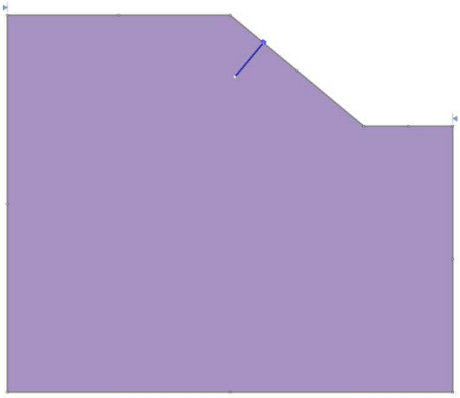
2D Extruded Verification #021

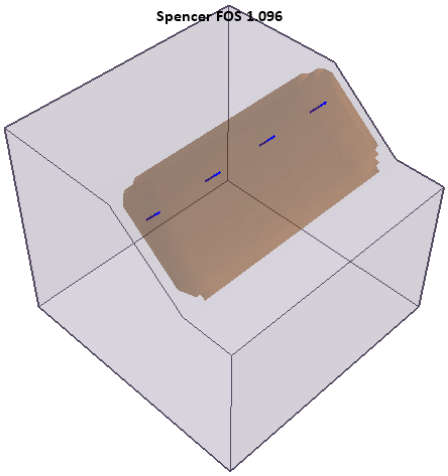




2D extruded, homogeneous, uniform loading, ellipsoidal with SA

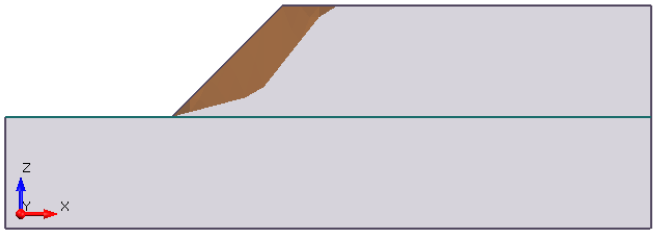
2D Extruded Verification #022

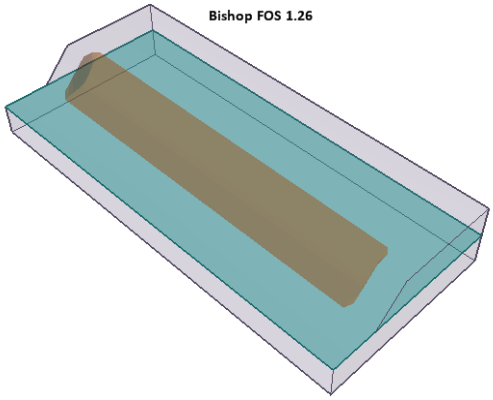




2D extruded, homogeneous, micropiles, ellipsoidal with SA

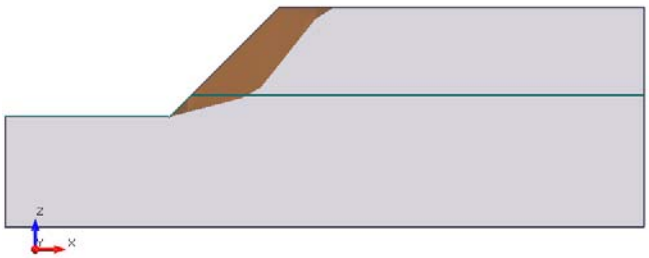
2D Extruded Verification #023

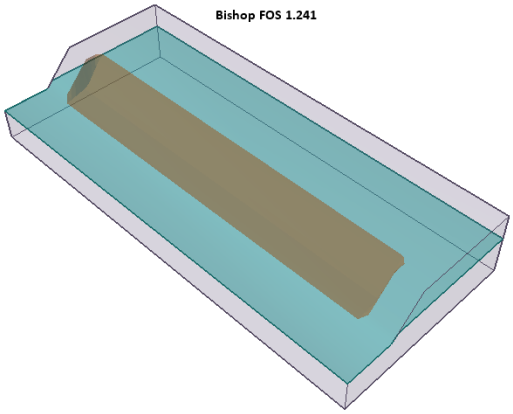




2D extruded, water table, weak layer defined slip surface

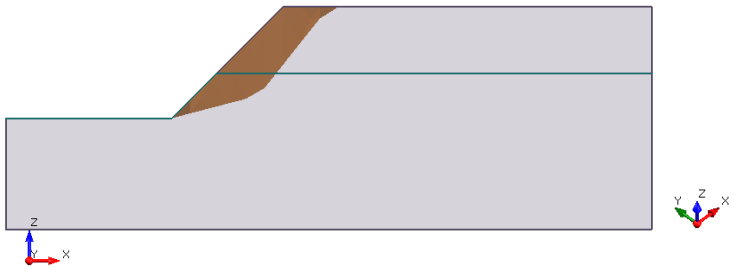
2D Extruded Verification #024

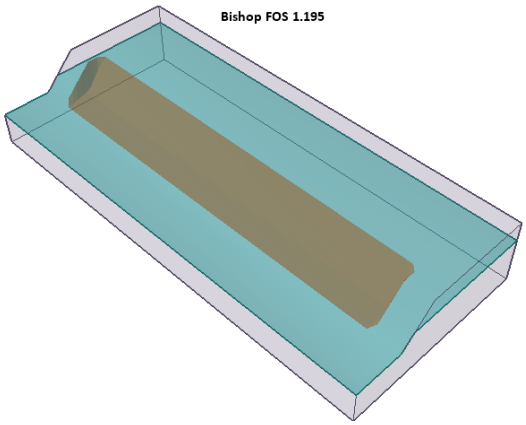




2D extruded, water table, weak layer defined slip surface

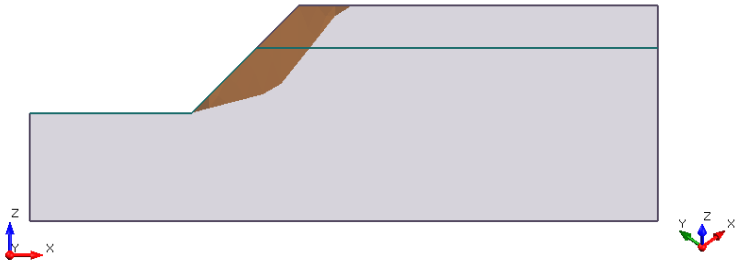
2D Extruded Verification #025

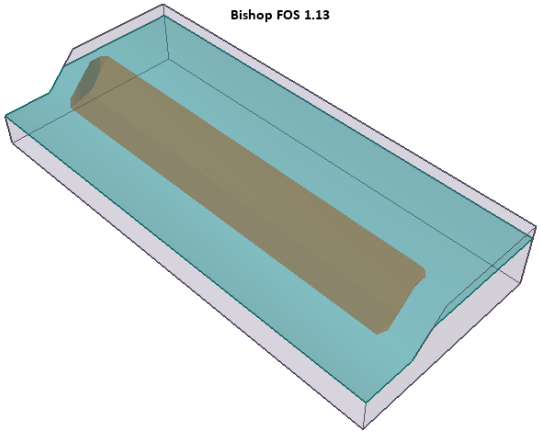




2D extruded, water table, weak layer defined slip surface

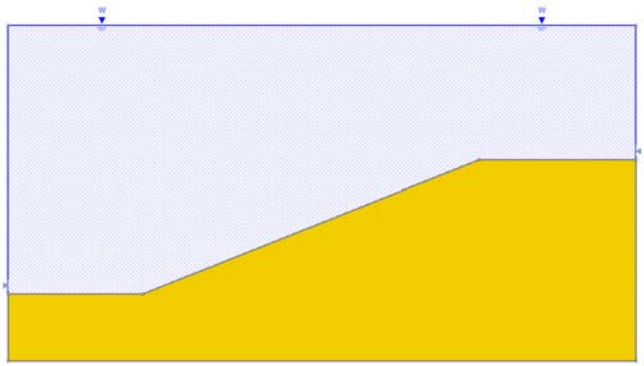
2D Extruded Verification #026

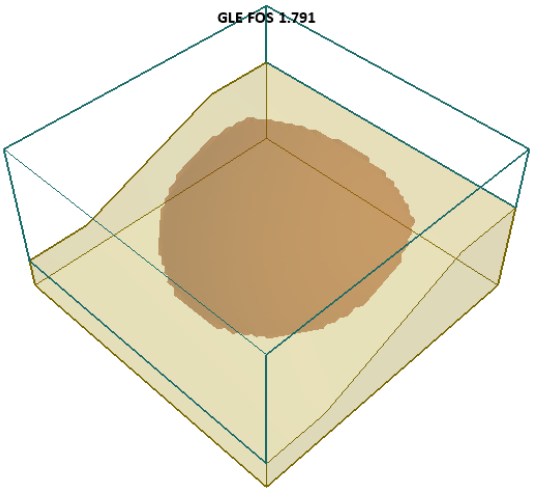




2D extruded, water table, weak layer defined slip surface

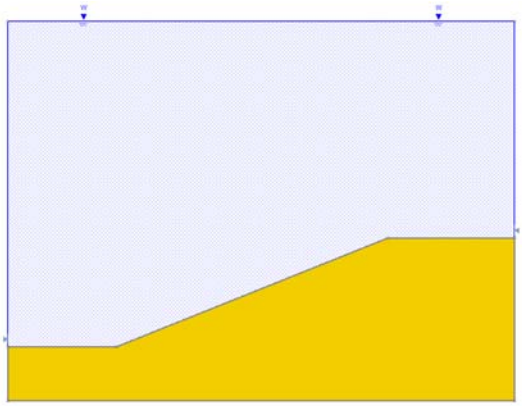
2D Extruded Verification #027

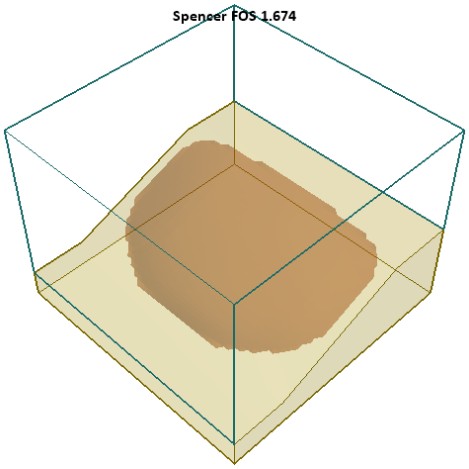




2D extruded, homogeneous, submerged slope, spherical

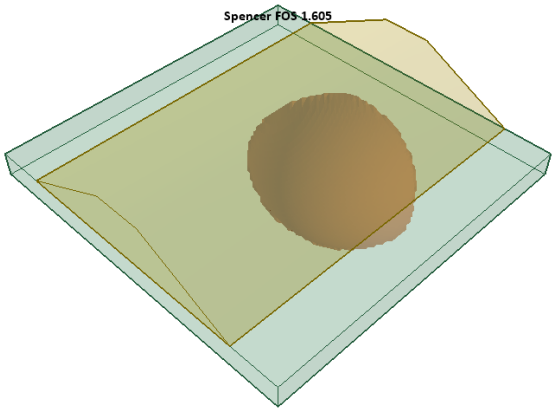
2D Extruded Verification #028





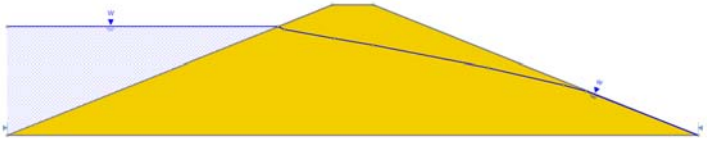
2D extruded, homogeneous, submerged slope, ellipsoidal with SA

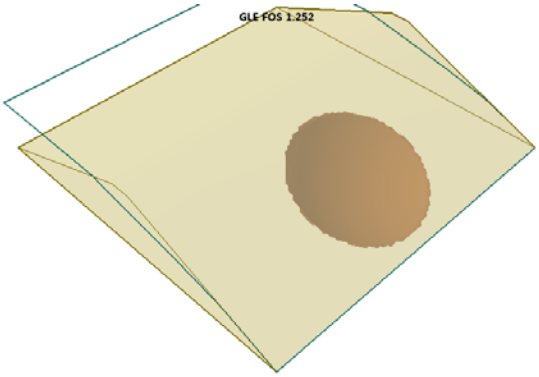
2D Extruded Verification #029



2D extruded embankment, (2) materials, spherical

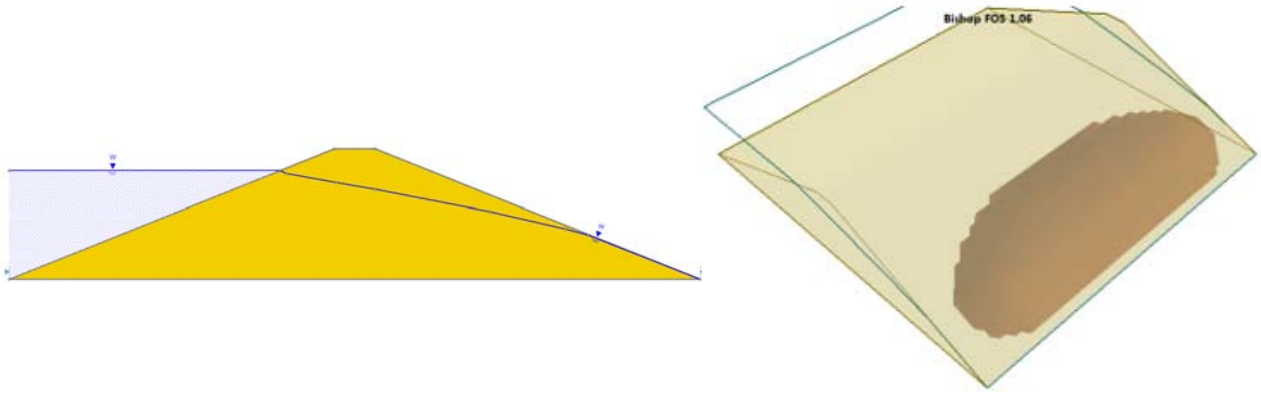
2D Extruded Verification #030





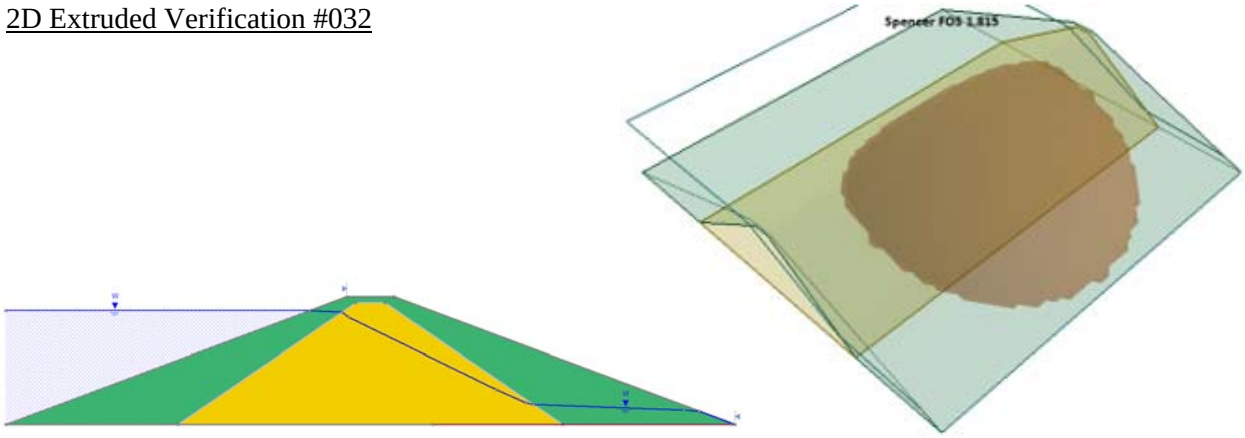
2D extruded embankment, homogeneous, water table with ponded water, spherical

2D Extruded Verification #031



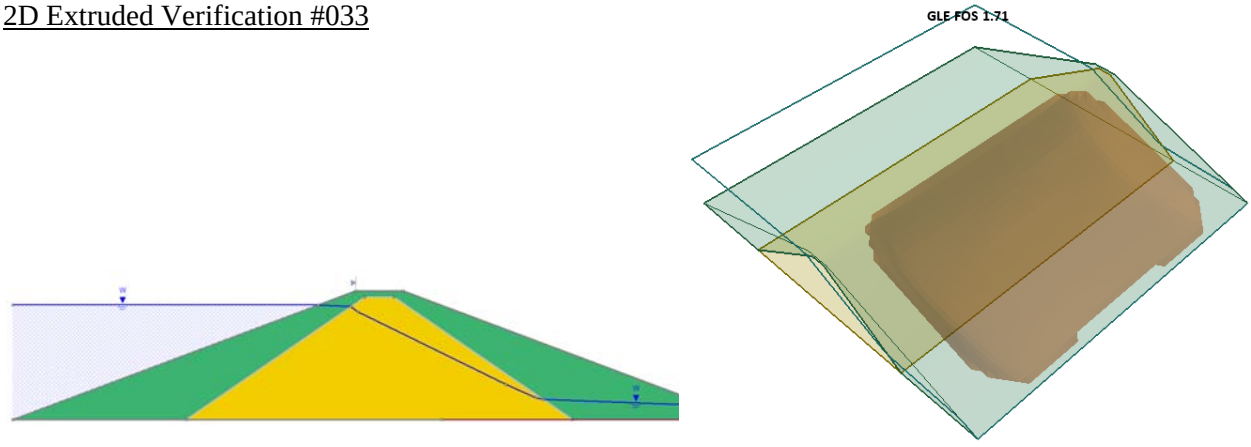
2D extruded embankment, homogeneous, water table with ponded water, ellipsoidal with SA

2D Extruded Verification #032



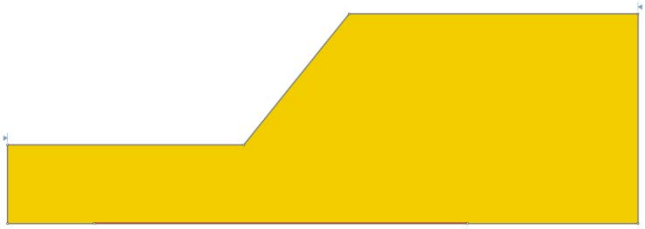
2D extruded embankment, (2) materials, water table with ponded water, spherical

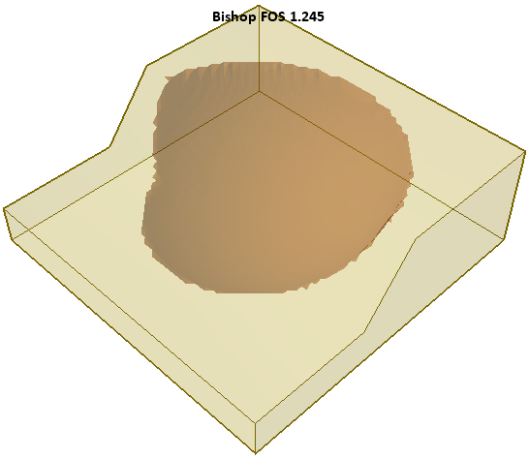
2D Extruded Verification #033



2D extruded embankment, (2) materials, water table with ponded water, ellipsoidal with SA

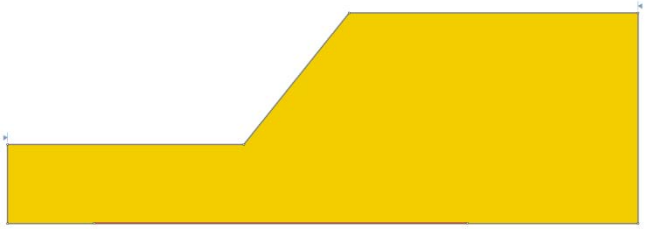
2D Extruded Verification #034

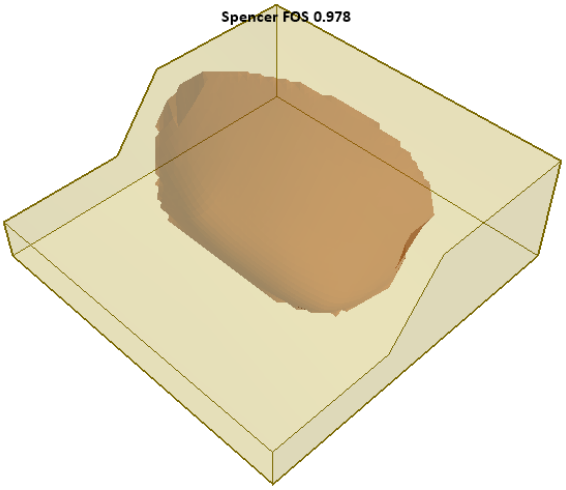




2D extruded, homogeneous, minimum depth, spherical

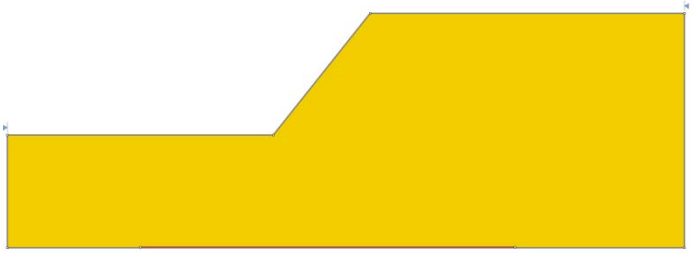
2D Extruded Verification #035

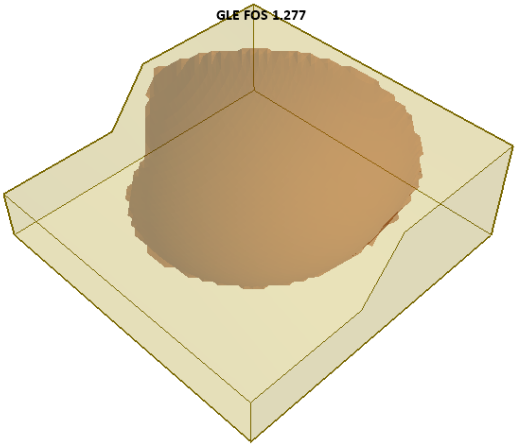




2D extruded, homogeneous, ellipsoidal with SA

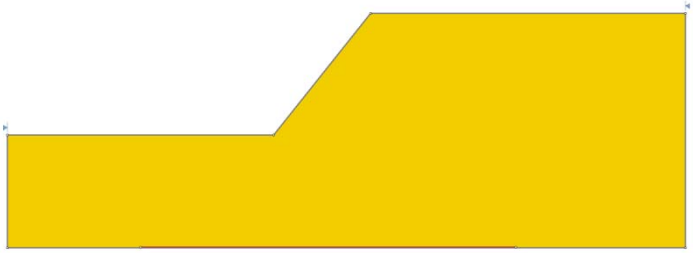
2D Extruded Verification #036

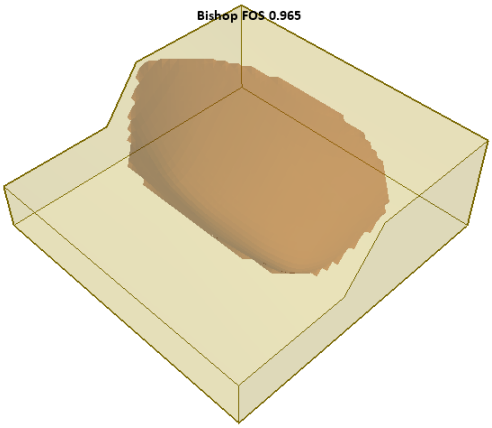




2D extruded, homogeneous, minimum depth, spherical

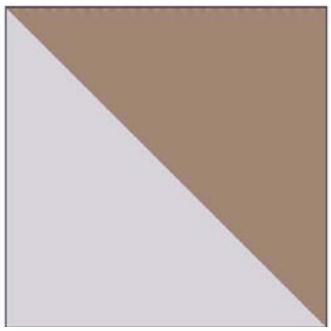
2D Extruded Verification #037

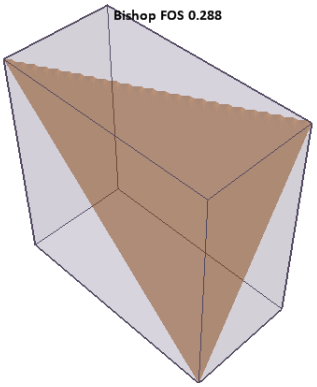




2D extruded, homogeneous, ellipsoidal with SA

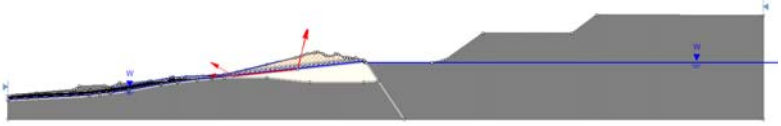
2D Extruded Verification #038

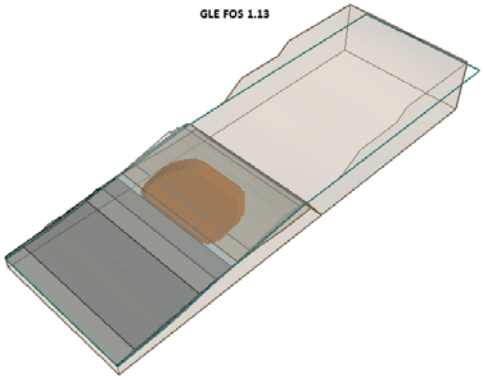




2D extruded, vertical cut, weak layer defined slip surface

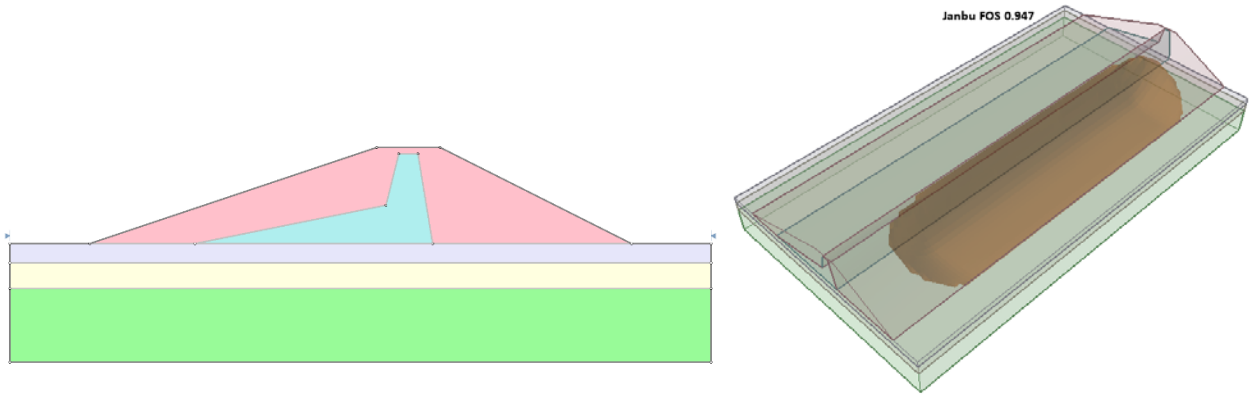
2D Extruded Verification #039





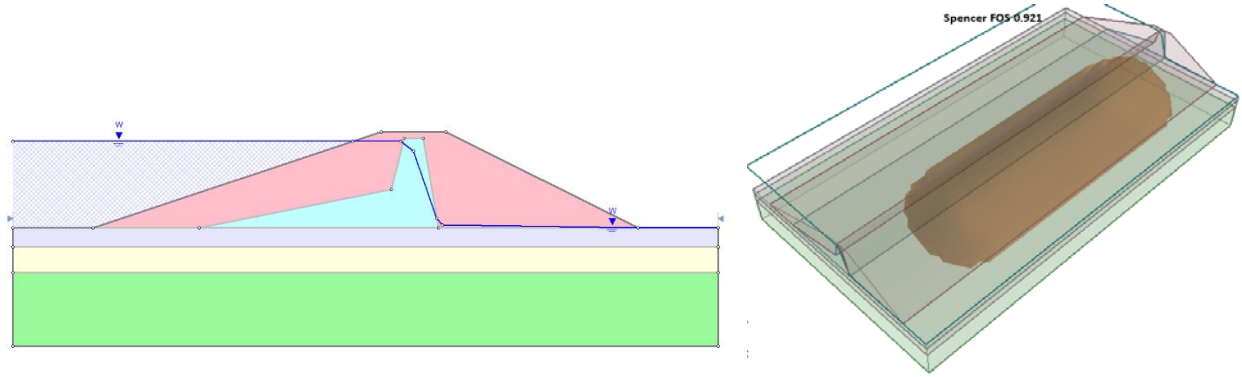
2D extruded, (6) materials, water table, ellipsoidal with SA

2D Extruded Verification #040



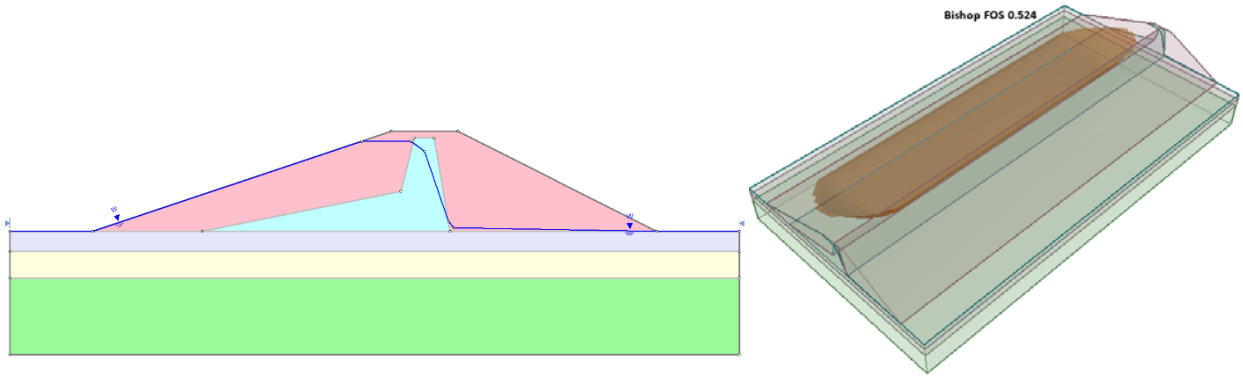
2D extruded embankment, (5) materials, ellipsoidal SA

2D Extruded Verification #041



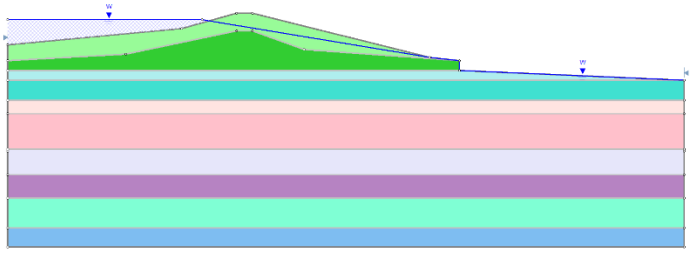
2D extruded embankment, (5) materials, full reservoir, ellipsoidal SA

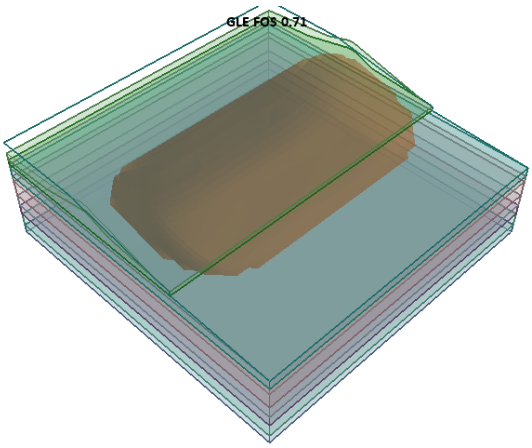
2D Extruded Verification #042



2D extruded embankment, (5) materials, empty reservoir, rapid drawdown, transient, ellipsoidal SA

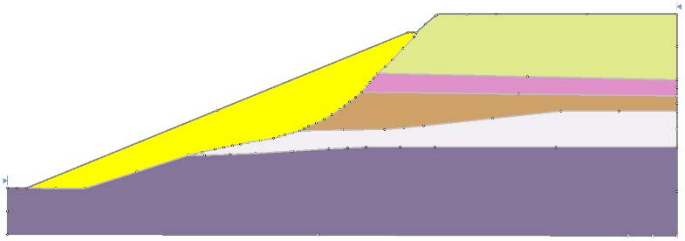
2D Extruded Verification #043

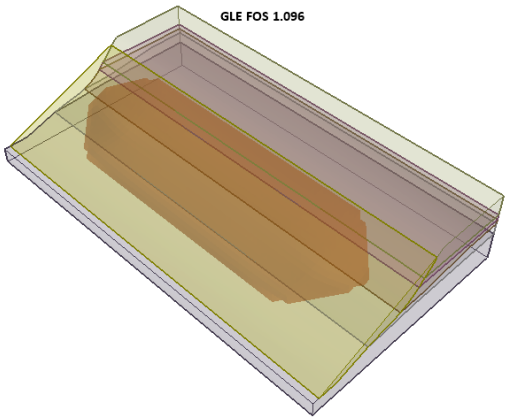




2D extruded levee, (10) materials, water table, ellipsoidal with SA

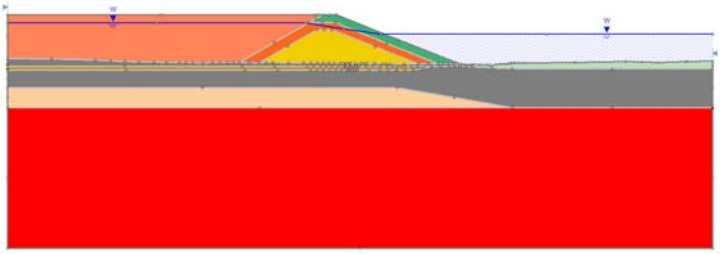
2D Extruded Verification #044

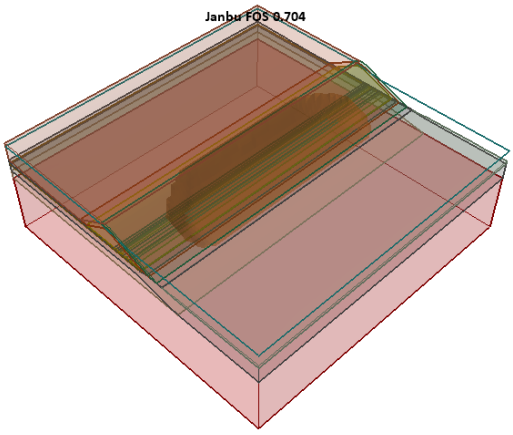




2D extruded slope, (6) materials, ellipsoidal with SA

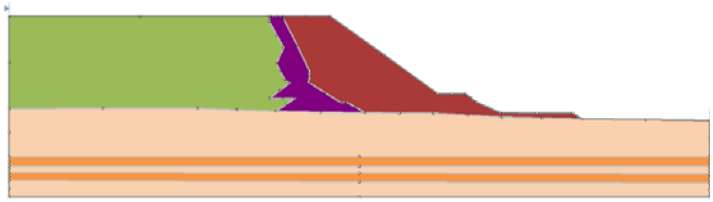
2D Extruded Verification #045

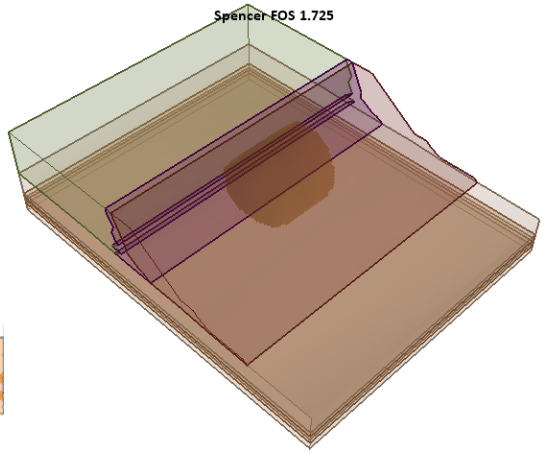




2D extruded slope, (9) materials, (1) SHANSEP material, water table, seismic, ellipsoidal with SA

2D Extruded Verification #046





2D extruded slope, (5) materials, (1) Shear/Normal Function Material, ellipsoidal with SA