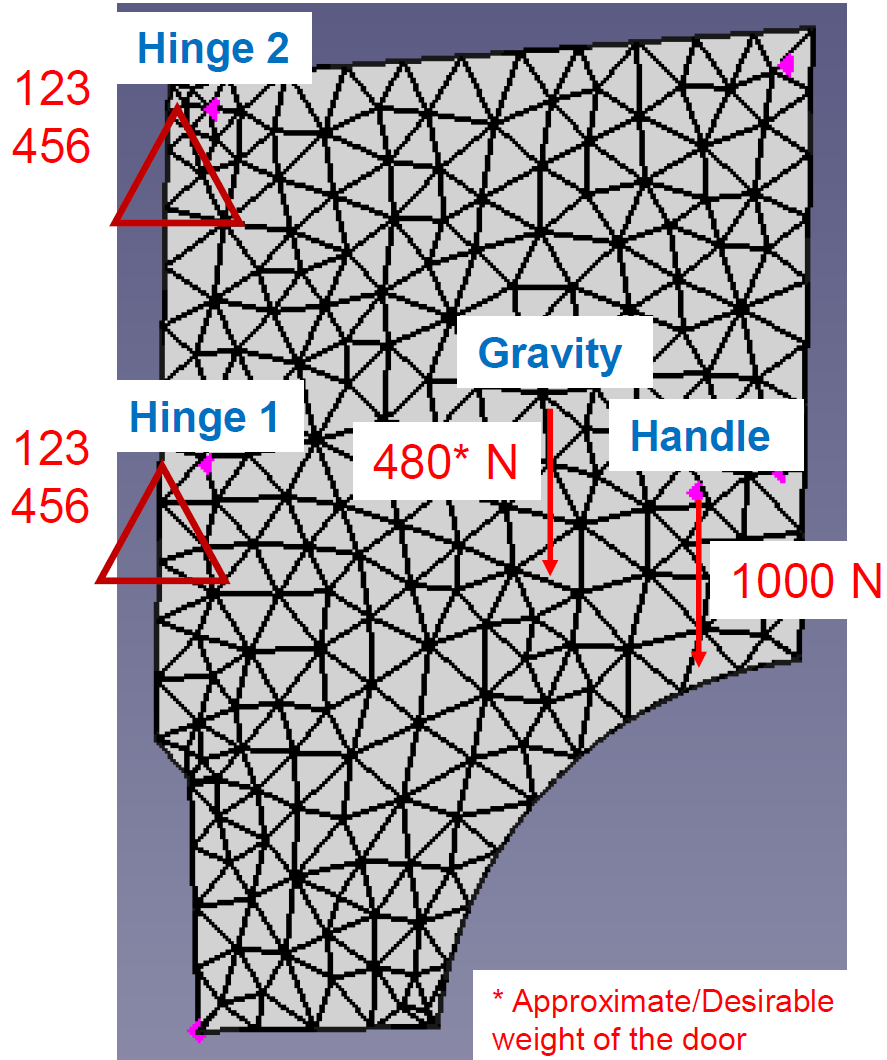# Two Load Cases for structural integrity calculations
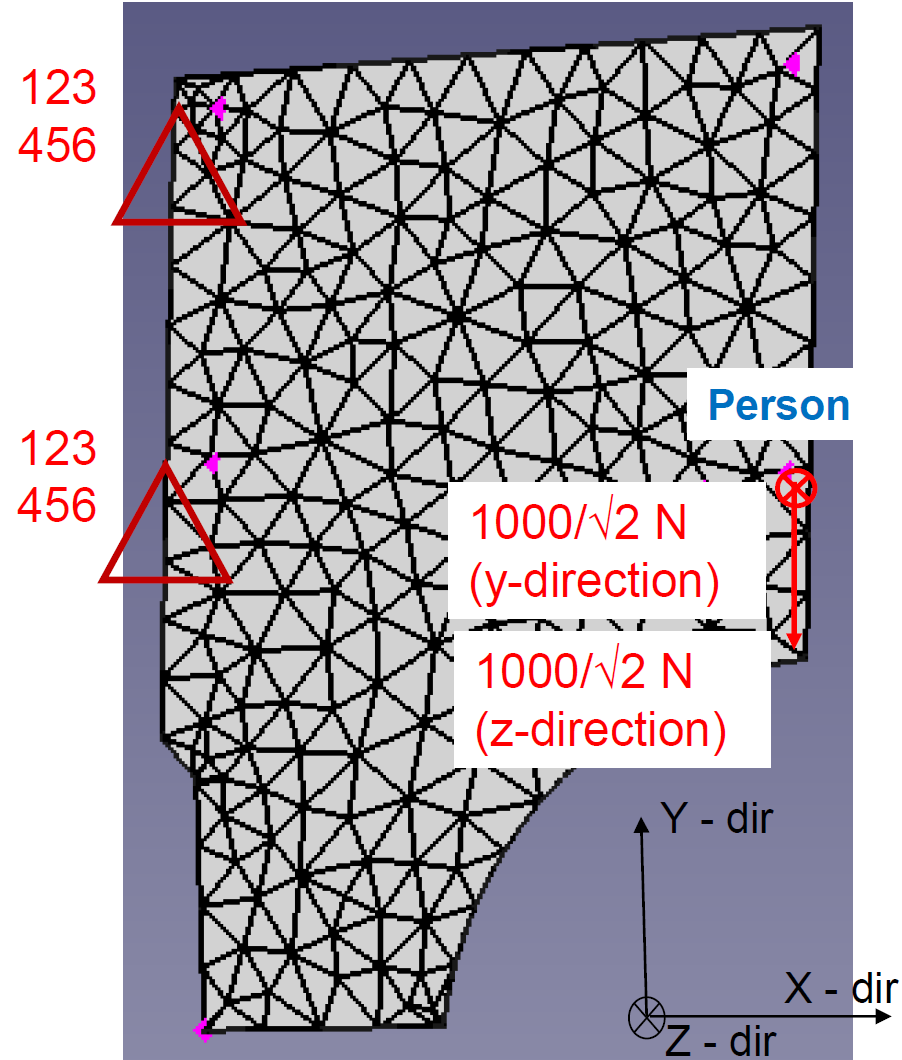
1. OBJECTIVES   *2. METHODOLOGY*

Static Load Case 1 – door open Hanging from handle

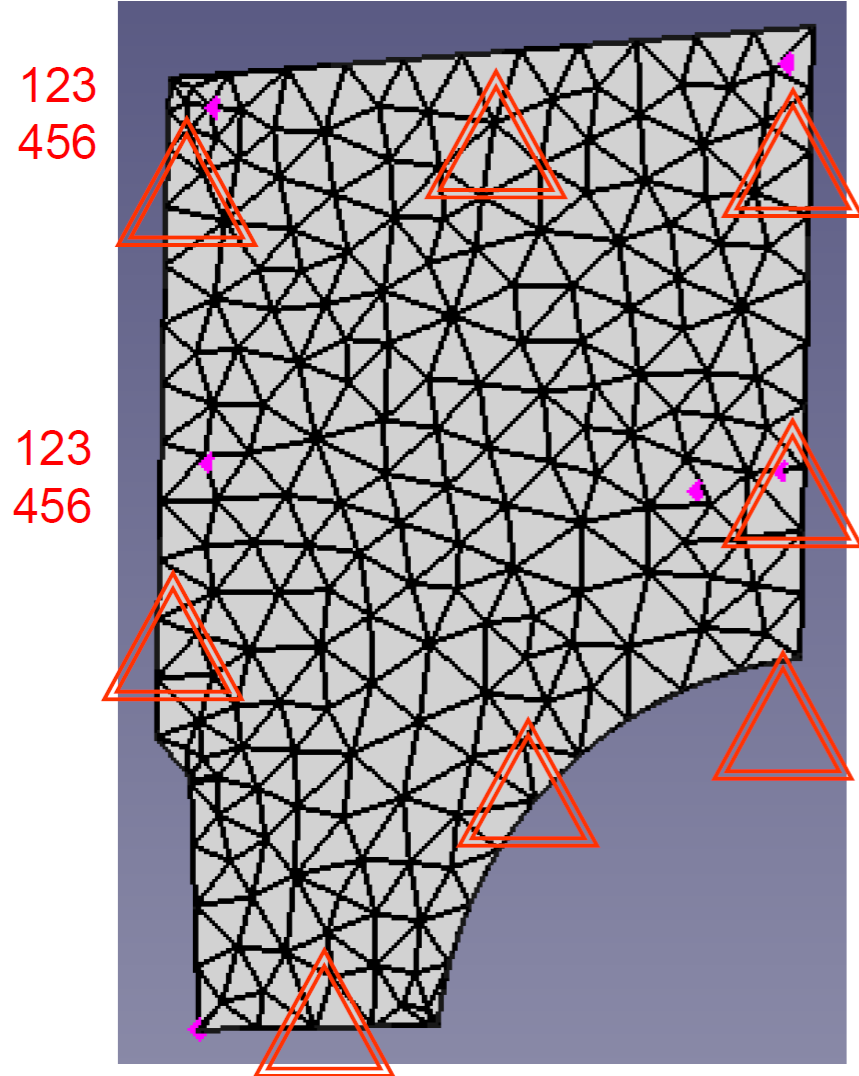**Static Load Case 2 – door open + Cabin turned 45 deg Worker sitting on the edge of the door**

STEP 1
STEP 2

Hinge 2

123
456

Gravity

Hinge 1

123
456

480* N

Handle

1000 N

* Approximate/Desirable weight of the door

123
456

123
456

Person

1000/√2 N (y-direction)

1000/√2 N (z-direction)

Y - dir

X - dir

Z - dir

Third Load Case for structural integrity and Constraints for the modal analysis
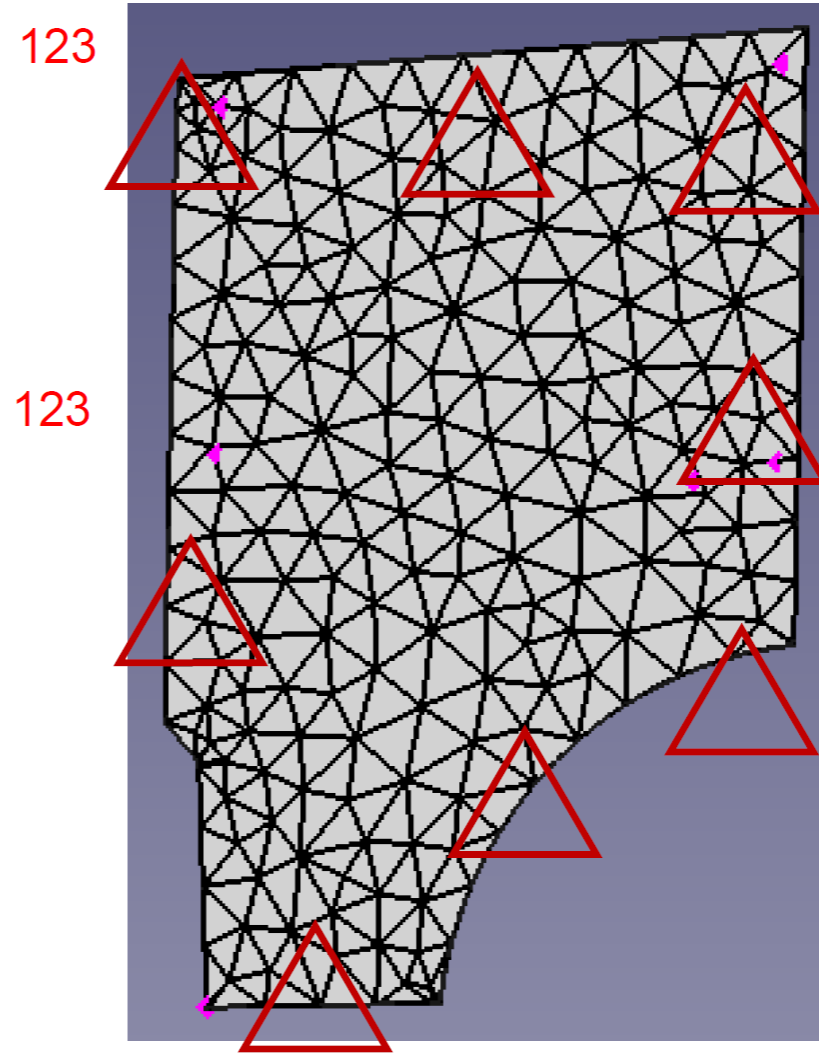
1. OBJECTIVES   *2. METHODOLOGY*   STEP 1
STEP 2

Static Load Case 3 – door closed
Homogeneous Pressure

Modal Analysis Load Case – door closed
Simply Supported