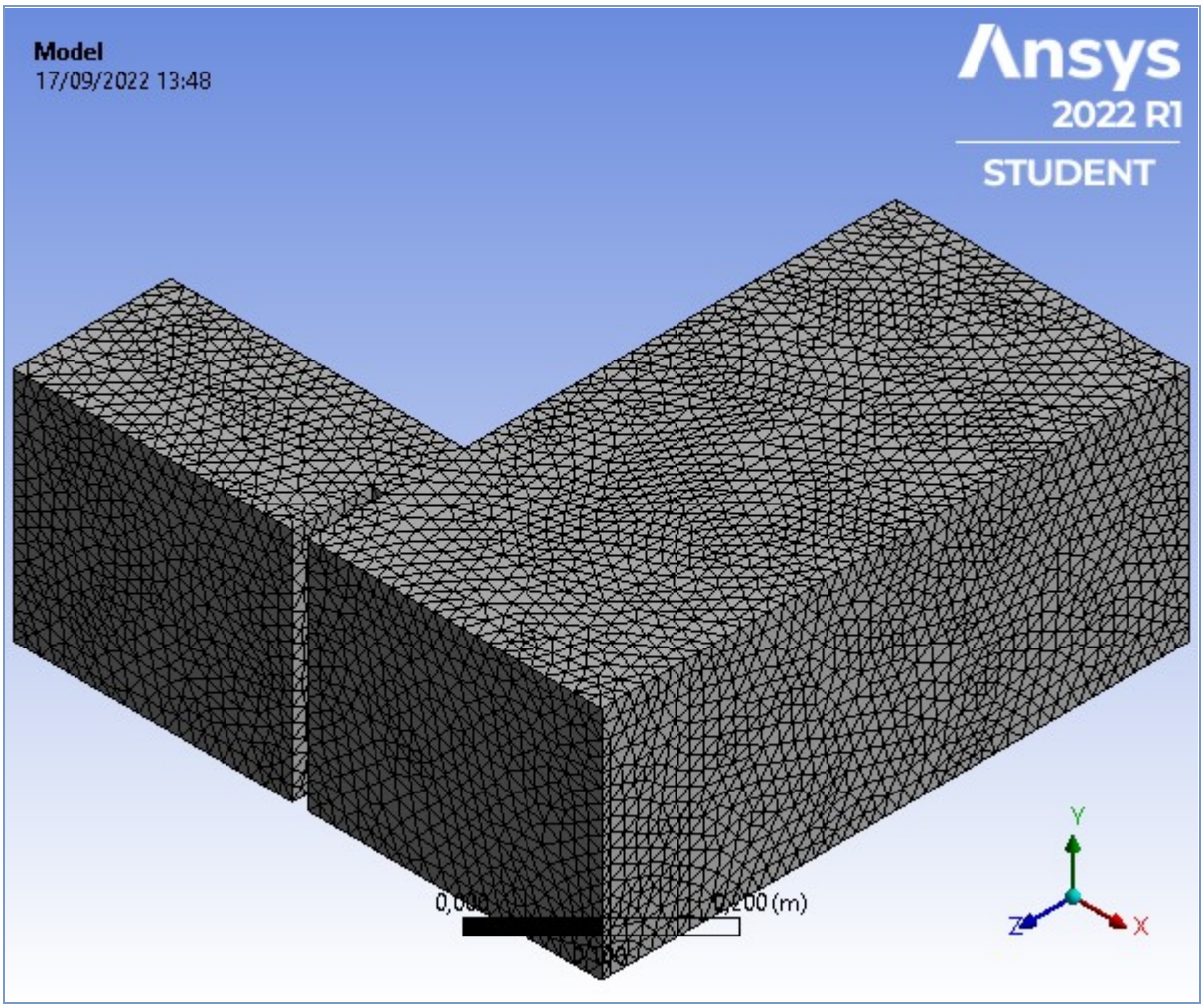
# Project*

| | |
|---|---|
| First Saved | Saturday, September 17, 2022 |
| Last Saved | Saturday, September 17, 2022 |
| Product Version | 2022 R1 |
| Save Project Before Solution | No |
| Save Project After Solution | No |



# Contents



# Units

**TABLE 1**

| | |
|---|---|
| Unit System | Metric (m, kg, N, s, V, A) Degrees rad/s Celsius |
| Angle | Degrees |
| Rotational Velocity | rad/s |
| Temperature | Celsius |

# Model (A3)

**TABLE 2**
**Model (A3) > Geometry Imports**

| Object Name | *Geometry Imports* |
|---|---|
| State | Solved |

**TABLE 3**
**Model (A3) > Geometry Imports > Geometry Import (A2)**

| Object Name | *Geometry Import (A2)* |
|---|---|
| State | Solved |
| **Definition** | |
| Source | D:\2.UFS\Projeto Pesquisa\Teste_11R\Geometria_10rq.scdoc |
| Type | SpaceClaim |
| **Basic Geometry Options** | |
| Solid Bodies | Yes |
| Surface Bodies | Yes |
| Line Bodies | Yes |
| Parameters | Independent |
| Parameter Key | |
| Attributes | Yes |
| Attribute Key | |
| Named Selections | Yes |
| Named Selection Key | |
| Material Properties | Yes |
| **Advanced Geometry Options** | |
| Use Associativity | Yes |
| Coordinate Systems | Yes |
| Coordinate System Key | |
| Reader Mode Saves Updated File | No |
| Use Instances | Yes |
| Smart CAD Update | Yes |
| | |

| | |
|---|---|
| Compare Parts On Update | No |
| Compare Parts Tolerance | Tight |
| Analysis Type | 3-D |
| Mixed Import Resolution | None |
| Import Facet Quality | Source |
| Clean Bodies On Import | No |
| Stitch Surfaces On Import | None |
| Stitch Tolerance | 0,0000001 |
| Decompose Disjoint Geometry | Yes |
| Enclosure and Symmetry Processing | Yes |

## *Geometry*

**TABLE 4**
**Model (A3) > Geometry**

| | |
|---|---|
| Object Name | *Geometry* |
| State | Fully Defined |
| **Definition** | |
| Source | D:\2.UFS\Projeto Pesquisa\Teste_11R\Geometria_10rq.scdoc |
| Type | SpaceClaim |
| Length Unit | Meters |
| **Bounding Box** | |
| Length X | 0,6 m |
| Length Y | 0,24 m |
| Length Z | 0,6 m |
| **Properties** | |
| Volume | 5,4432e-002 m³ |
| Scale Factor Value | 1, |
| **Statistics** | |
| Bodies | 1 |
| Active Bodies | 1 |
| Nodes | 20018 |
| Elements | 100909 |
| Mesh Metric | Orthogonal Quality |
| Min | 0,2114 |
| Max | 0,99209 |
| Average | 0,76695 |
| Standard Deviation | 0,11818 |
| **Update Options** | |
| Assign Default Material | No |
| **Basic Geometry Options** | |
| Solid Bodies | Yes |
| Surface Bodies | Yes |
| Line Bodies | Yes |
| Parameters | Independent |
| Parameter Key | |
| Attributes | Yes |
| Attribute Key | |
| Named Selections | Yes |
| Named Selection Key | |
| Material Properties | Yes |
| **Advanced Geometry Options** | |
| Use Associativity | Yes |
| Coordinate Systems | Yes |
| Coordinate System Key | |
| Reader Mode Saves Updated File | No |
| | |

| | |
|---|---|
| Use Instances | Yes |
| Smart CAD Update | Yes |
| Compare Parts On Update | No |
| Analysis Type | 3-D |
| Mixed Import Resolution | None |
| Import Facet Quality | Source |
| Clean Bodies On Import | No |
| Stitch Surfaces On Import | None |
| Decompose Disjoint Geometry | Yes |
| Enclosure and Symmetry Processing | Yes |

**TABLE 5**
**Model (A3) > Geometry > Parts**

| | |
|---|---|
| Object Name | *Geometria_10rq\Sólido* |
| State | Meshed |
| **Graphics Properties** | |
| Visible | Yes |
| Transparency | 1 |
| **Definition** | |
| Suppressed | No |
| Coordinate System | Default Coordinate System |
| Treatment | None |
| Reference Frame | Lagrangian |
| **Material** | |
| Assignment | |
| Fluid/Solid | Defined By Geometry (Solid) |
| **Bounding Box** | |
| Length X | 0,6 m |
| Length Y | 0,24 m |
| Length Z | 0,6 m |
| **Properties** | |
| Volume | 5,4432e-002 m³ |
| Centroid X | 0,68734 m |
| Centroid Y | 0,12 m |
| Centroid Z | 0,94519 m |
| **Statistics** | |
| Nodes | 20018 |
| Elements | 100909 |
| Mesh Metric | Orthogonal Quality |
| Min | 0,2114 |
| Max | 0,99209 |
| Average | 0,76695 |
| Standard Deviation | 0,11818 |
| **CAD Attributes** | |
| PartTolerance: | 0,00000001 |
| Color:143.175.143 | |

**TABLE 6**
**Model (A3) > Materials**

| | |
|---|---|
| Object Name | *Materials* |
| State | Fully Defined |
| **Statistics** | |
| Materials | 0 |
| Material Assignments | 0 |

## *Coordinate Systems*

**TABLE 7**
**Model (A3) > Coordinate Systems > Coordinate System**

| | |
|---|---|
| Object Name | *Global Coordinate System* |
| State | Fully Defined |
| **Definition** | |
| Type | Cartesian |
| Coordinate System ID | 0, |
| **Origin** | |
| Origin X | 0, m |
| Origin Y | 0, m |
| Origin Z | 0, m |
| **Directional Vectors** | |
| X Axis Data | [ 1, 0, 0, ] |
| Y Axis Data | [ 0, 1, 0, ] |
| Z Axis Data | [ 0, 0, 1, ] |

## *Mesh*

**TABLE 8**
**Model (A3) > Mesh**

| | |
|---|---|
| Object Name | *Mesh* |
| State | Solved |
| **Display** | |
| Display Style | Use Geometry Setting |
| **Defaults** | |
| Physics Preference | CFD |
| Solver Preference | Fluent |
| Element Order | Linear |
| Element Size | 1,43e-002 m |
| Export Format | Standard |
| Export Preview Surface Mesh | No |
| **Sizing** | |
| Use Adaptive Sizing | No |
| Growth Rate | Default (1,2) |
| Max Size | Default (2,86e-002 m) |
| Mesh Defeaturing | Yes |
| Defeature Size | Default (7,15e-005 m) |
| Capture Curvature | Yes |
| Curvature Min Size | Default (1,43e-004 m) |
| Curvature Normal Angle | Default (18,°) |
| Capture Proximity | No |
| Bounding Box Diagonal | 0,88182 m |
| Average Surface Area | 6,675e-002 m² |
| Minimum Edge Length | 6,2832e-003 m |
| **Quality** | |
| Check Mesh Quality | Yes, Errors |
| Target Skewness | Default (0,9) |
| Smoothing | Medium |
| Mesh Metric | Orthogonal Quality |
| Min | 0,2114 |
| Max | 0,99209 |
| Average | 0,76695 |
| Standard Deviation | 0,11818 |
| **Inflation** | |
| Use Automatic Inflation | None |
| Inflation Option | Smooth Transition |
| | |

| | |
|---|---|
| Transition Ratio | 0,272 |
| Maximum Layers | 5 |
| Growth Rate | 1,2 |
| Inflation Algorithm | Pre |
| View Advanced Options | No |
| **Advanced** | |
| Number of CPUs for Parallel Part Meshing | Program Controlled |
| Straight Sided Elements | |
| Rigid Body Behavior | Dimensionally Reduced |
| Triangle Surface Mesher | Program Controlled |
| Topology Checking | Yes |
| Pinch Tolerance | Default (1,287e-004 m) |
| Generate Pinch on Refresh | No |
| **Statistics** | |
| Nodes | 20018 |
| Elements | 100909 |

## *Named Selections*

**TABLE 9**
**Model (A3) > Named Selections > Named Selections**

| Object Name | *Porta* | *Janela* | *Basculante* | *Gas* |
|---|---|---|---|---|
| State | Fully Defined | | | |
| **Scope** | | | | |
| Scoping Method | Geometry Selection | | | |
| Geometry | 1 Face | | | |
| **Definition** | | | | |
| Send to Solver | Yes | | | |
| Protected | Program Controlled | | | |
| Visible | Yes | | | |
| Program Controlled Inflation | Exclude | | | |
| **Statistics** | | | | |
| Type | Imported | | | |
| Total Selection | 1 Face | | | |
| Surface Area | 1,68e-002 m² | 2,2e-002 m² | 7,2e-003 m² | 3,1257e-006 m² |
| Suppressed | 0 | | | |
| Used by Mesh Worksheet | No | | | |