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| **Loads and Fixtures**  | ****Fixture name**** | ****Fixture Image**** | ****Fixture Details**** | | --- | --- | --- | | **Fixed-1** |  | |  |  | | --- | --- | | Entities: | **4 face(s)** | | Type: | **Fixed Geometry** | | | ****Resultant Forces****   |  |  |  |  |  | | --- | --- | --- | --- | --- | | **Components** | **X** | **Y** | **Z** | **Resultant** | | **Reaction force(N)** | **-1,037.72** | **-1,124.9** | **150.995** | **1,537.87** | | **Reaction Moment(N.m)** | **0** | **0** | **0** | **1e-33** | | | | | **Fixed-2** |  | |  |  | | --- | --- | | Entities: | **2 face(s)** | | Type: | **Fixed Geometry** | | | ****Resultant Forces****   |  |  |  |  |  | | --- | --- | --- | --- | --- | | **Components** | **X** | **Y** | **Z** | **Resultant** | | **Reaction force(N)** | **1,037.72** | **3,124.89** | **-150.995** | **3,296.15** | | **Reaction Moment(N.m)** | **0** | **0** | **0** | **1e-33** | | | |  | ****Load name**** | ****Load Image**** | ****Load Details**** | | --- | --- | --- | | **Force-1** |  | |  |  | | --- | --- | | Entities: | **2 face(s)** | | Type: | **Apply normal force** | | Value: | **2,000 N** | | |

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| Resultant ForcesReaction forces  | Selection set | Units | Sum X | Sum Y | Sum Z | Resultant | | --- | --- | --- | --- | --- | --- | | Entire Model | N | 0.00100279 | 2,000 | -0.000567675 | 2,000 |  Reaction Moments  | Selection set | Units | Sum X | Sum Y | Sum Z | Resultant | | --- | --- | --- | --- | --- | --- | | Entire Model | N.m | 0 | 0 | 0 | 1e-33 | |
| Free body forces  | Selection set | Units | Sum X | Sum Y | Sum Z | Resultant | | --- | --- | --- | --- | --- | --- | | Entire Model | N | 9.15557e-05 | 0.00306702 | 0.000122071 | 0.00307081 |  Free body moments  | Selection set | Units | Sum X | Sum Y | Sum Z | Resultant | | --- | --- | --- | --- | --- | --- | | Entire Model | N.m | -6.11526e-08 | 3.93861e-09 | -2.36145e-07 | 2.43966e-07 | |

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| Study Results  | Name | Type | Min | Max | | --- | --- | --- | --- | | Stress1 | VON: von Mises Stress | 4.263e-10N/mm^2 (MPa)  Node: 18234 | 1.767e+02N/mm^2 (MPa)  Node: 4372 | | **G\_Forklift-Static 1-Stress-Stress1** | | | |  | Name | Type | Min | Max | | --- | --- | --- | --- | | Displacement1 | URES: Resultant Displacement | 0.000e+00mm  Node: 9165 | 2.783e+00mm  Node: 6660 | | **G\_Forklift-Static 1-Displacement-Displacement1** | | | |  | Name | Type | Min | Max | | --- | --- | --- | --- | | Strain1 | ESTRN: Equivalent Strain | 1.353e-15  Element: 8967 | 5.140e-04  Element: 4053 | | **G\_Forklift-Static 1-Strain-Strain1** | | | |  | Name | Type | Min | Max | | --- | --- | --- | --- | | Factor of Safety1 | Automatic | 1.557e+00  Node: 4372 | 6.450e+11  Node: 18234 | | **G\_Forklift-Static 1-Factor of Safety-Factor of Safety1** | | | | |