

Arch Definition **Thrust Line** **Mechanism**

Arch definition

by Blocks Circular by Sketch Lo >

Add rectangular block

Add irregular Block N. of points: 6

Thickness: 0

Block data

N.	Area	Weight	Xg

View data Edit data

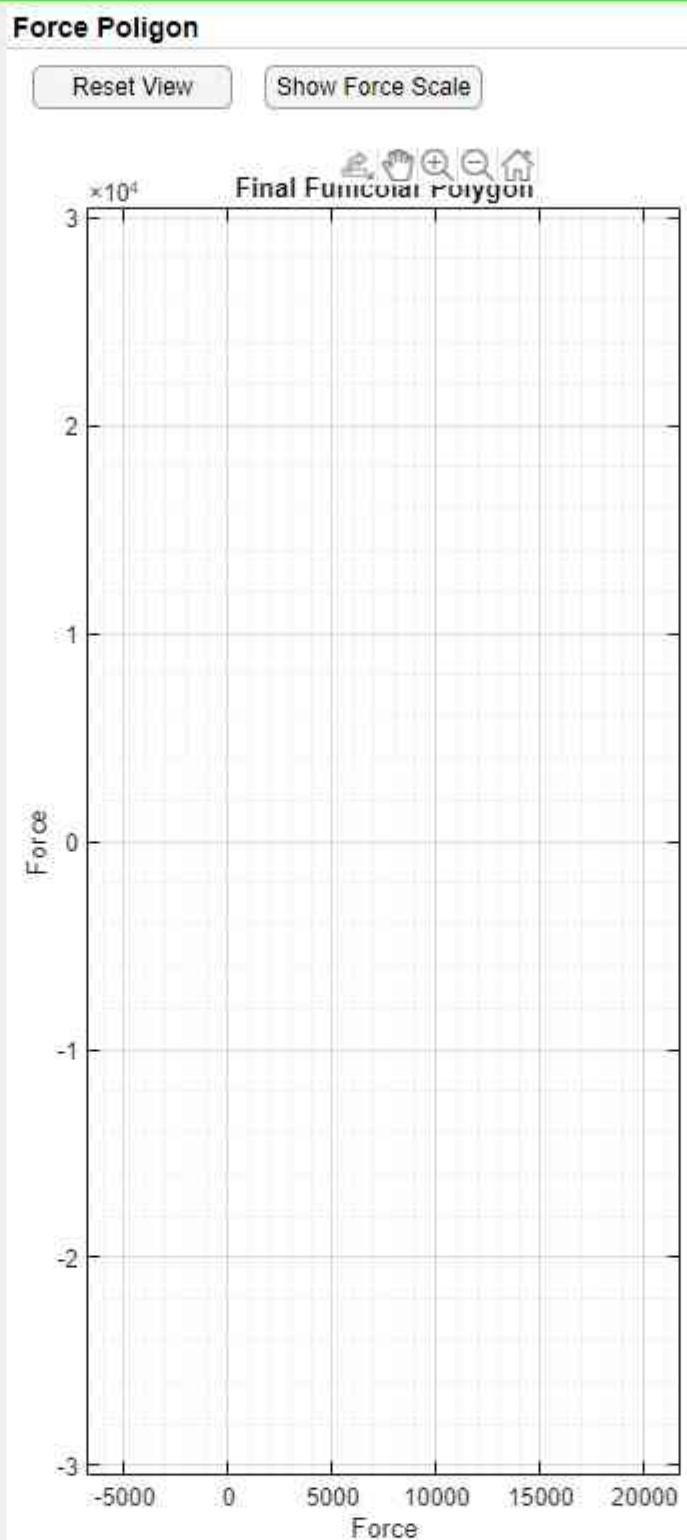
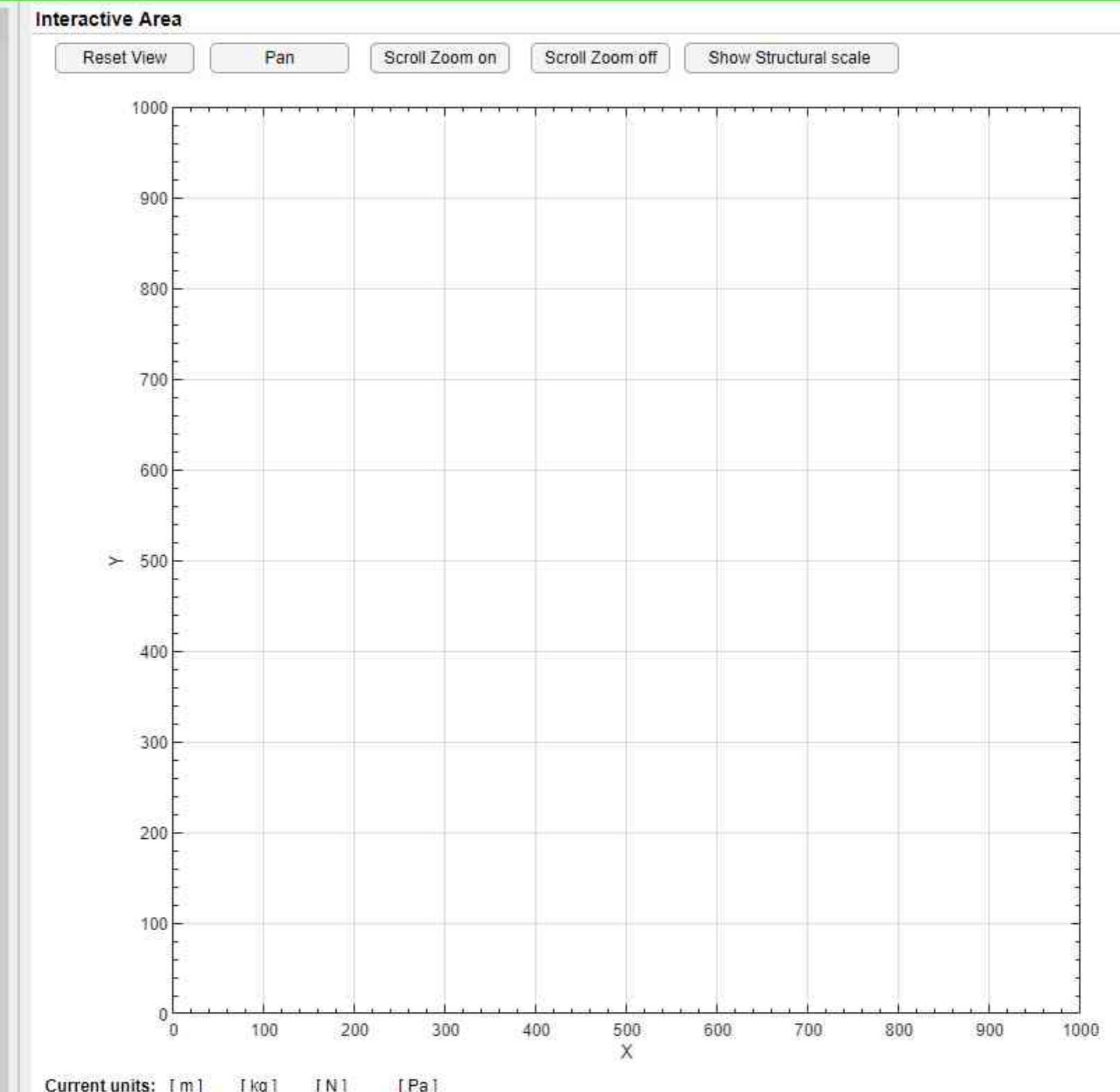
Delete all Delete by N. N: 1

Background Image

Load image Pick Reference L: 1

Flip X Interactive on: off Target: 100

Flip Y scale factor: 1 Scale Image



Graphics Save/Load Example Blocks properties Units

Plot blocks Plot Forces Plot Reactions forces factor: 3 Force Magnitude Off: On

Plot Sketch Plot Background Image Flip Y axis alpha W: 0 Background Image Off: On

Clear Interactive Area Clear Sketch Sketched Geometry Off: On

Text / Labels Off: On

Graphics Tab2

Force shrink factor: 0

Arch Definition Thrust Line Mechanism

Arch definition

by Blocks Circular by Sketch Lo >

Add rectangular block

Add irregular Block N. of points

Thickness

Block data

N.	Area	Weight	Xg
----	------	--------	----

N:

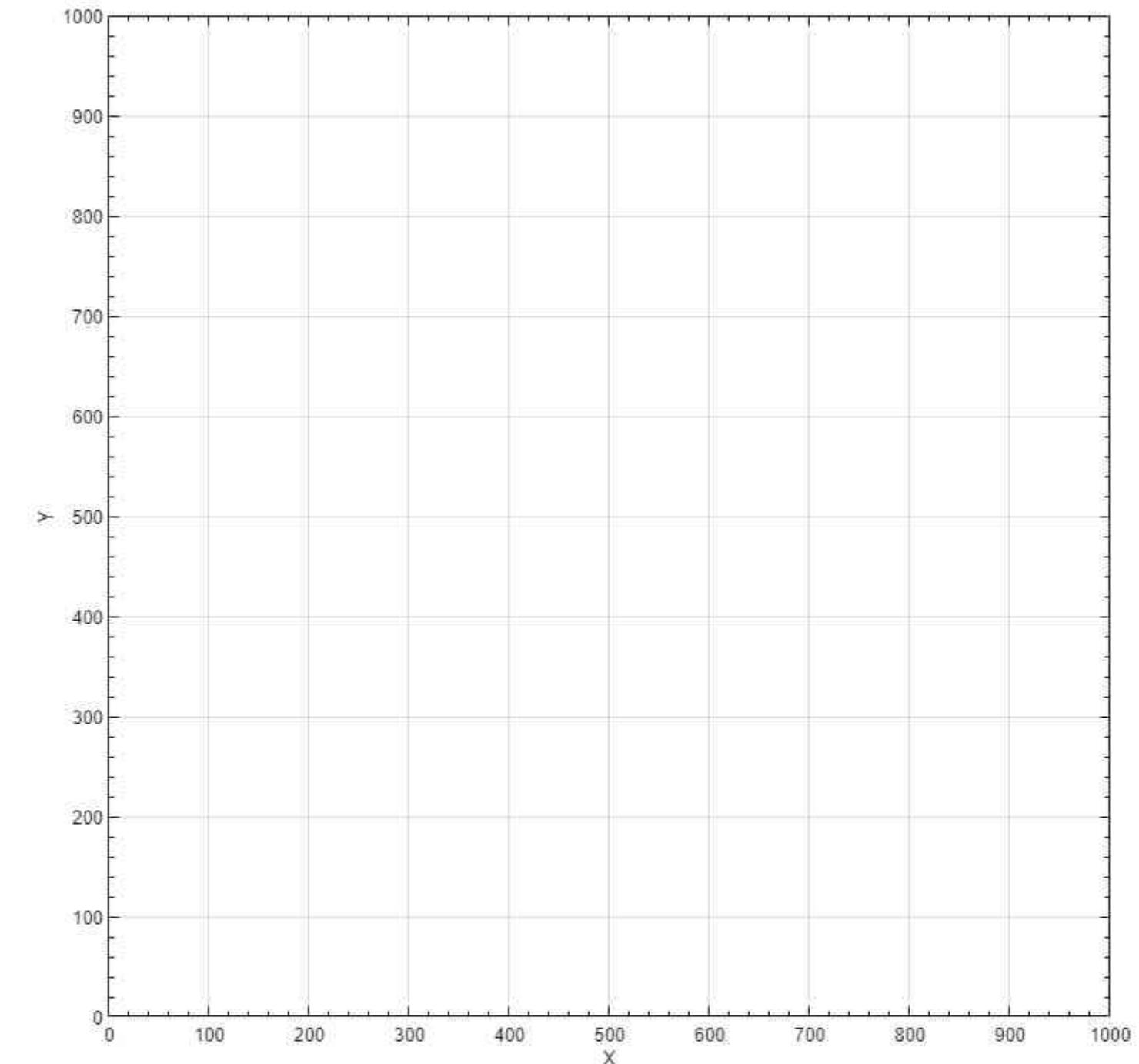
Background Image

L:

Interactive on off Target:

scale factor: Scale Image

Interactive Area



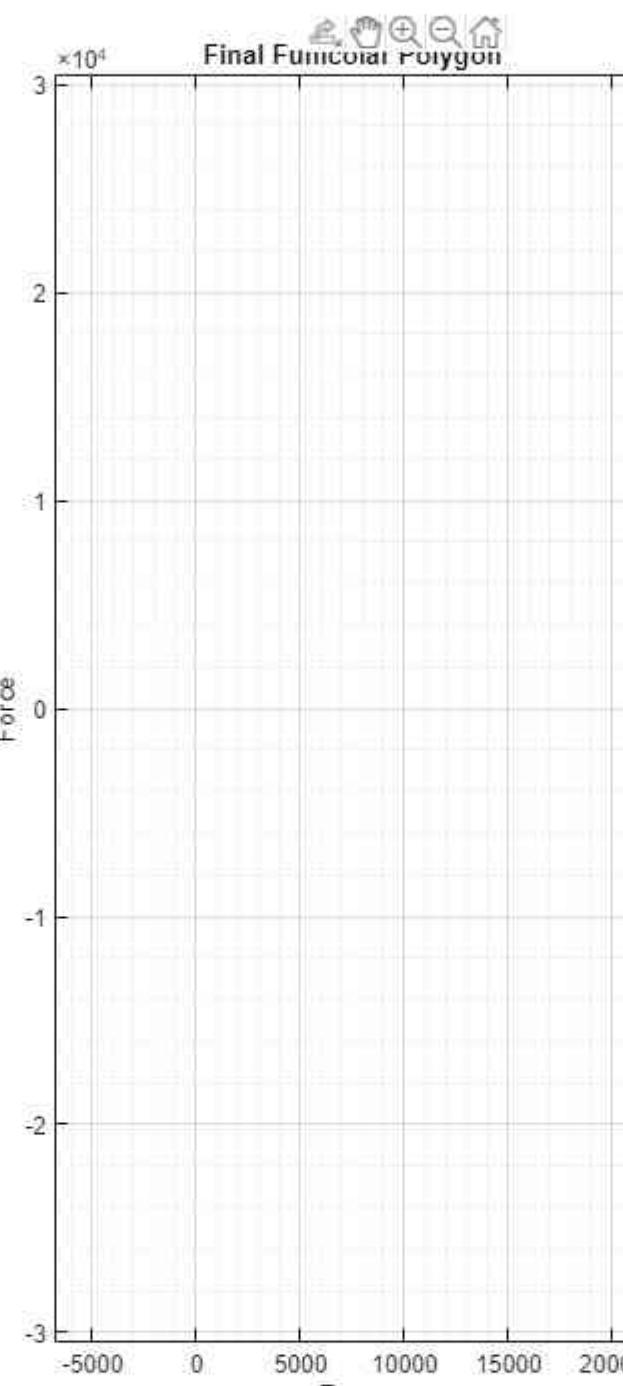
Current units: [m] [kg] [N] [Pa]

Graphics Save/Load Example Blocks properties Units

Save to folder Example Save as: FileName_Example

Load Examples folder Example: Open Example

Force Polygon



Graphics Tab2

Force shrink factor:

Arch Definition Thrust Line Mechanism

Arch definition

by Blocks Circular by Sketch Lo >

Add rectangular block

Add irregular Block N. of points

Thickness

Block data

N.	Area	Weight	Xg
----	------	--------	----

N:

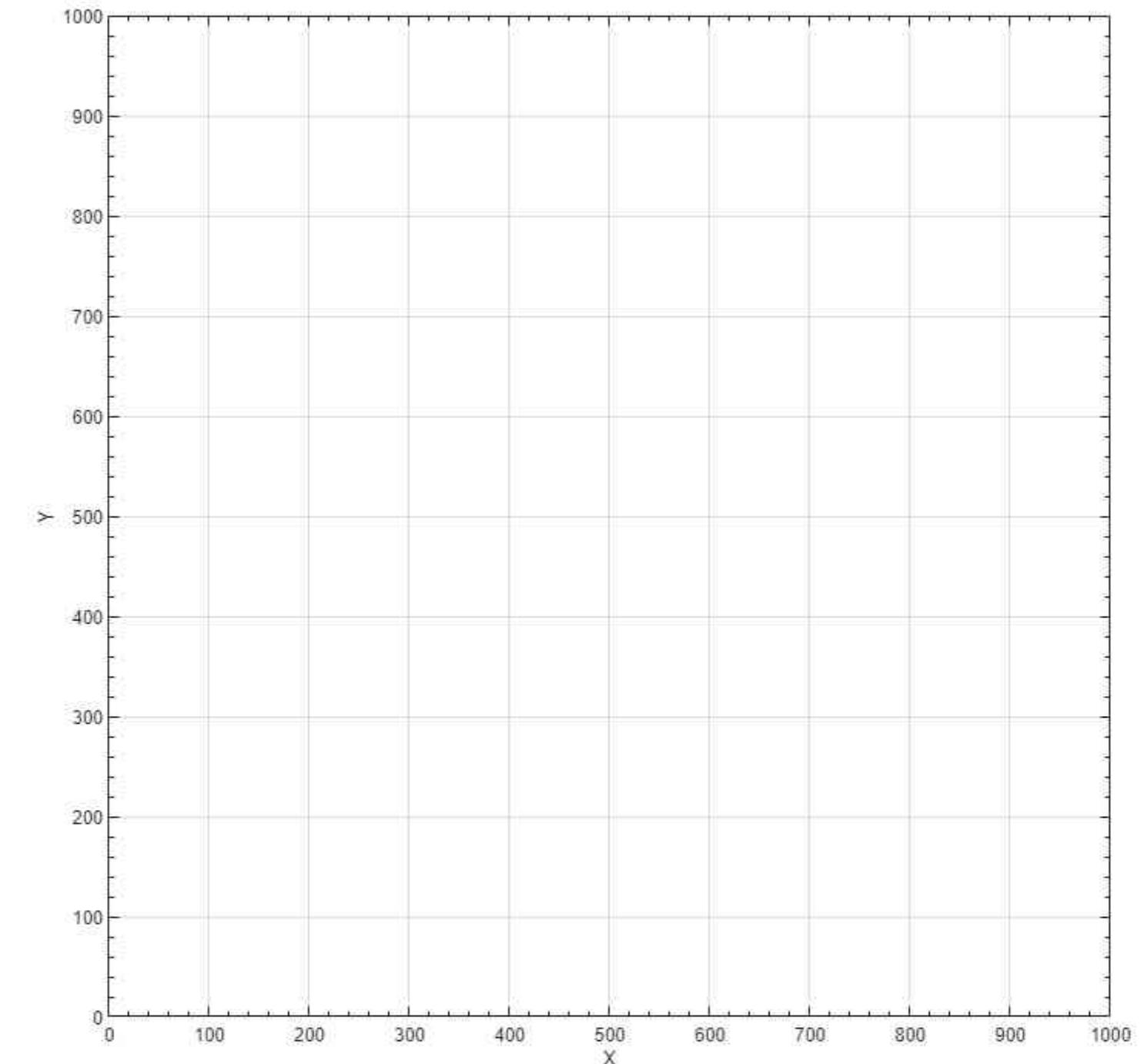
Background Image

L:

Interactive on off Target:

scale factor: Scale Image

Interactive Area



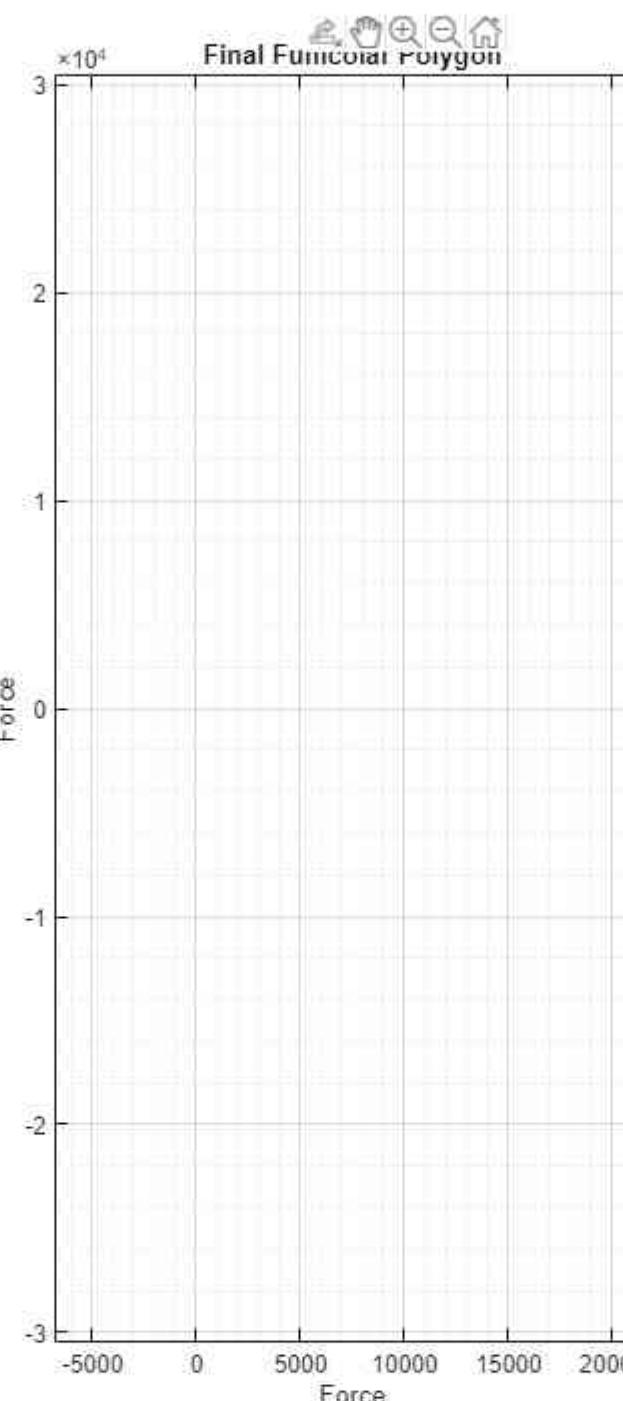
Current units: [m] [kg] [N] [Pa]

Graphics Save/Load Example Blocks properties Units

Save to folder Example Save as: FileName_Example

Load Examples folder Example: .. Open Example

Force Polygon



Graphics Tab2

Force shrink factor:

Arch Definition Thrust Line Mechanism

Arch definition

by Blocks Circular by Sketch Lo >

Add rectangular block

Add irregular Block N. of points

Thickness

Block data

N.	Area	Weight	Xg
----	------	--------	----

N:

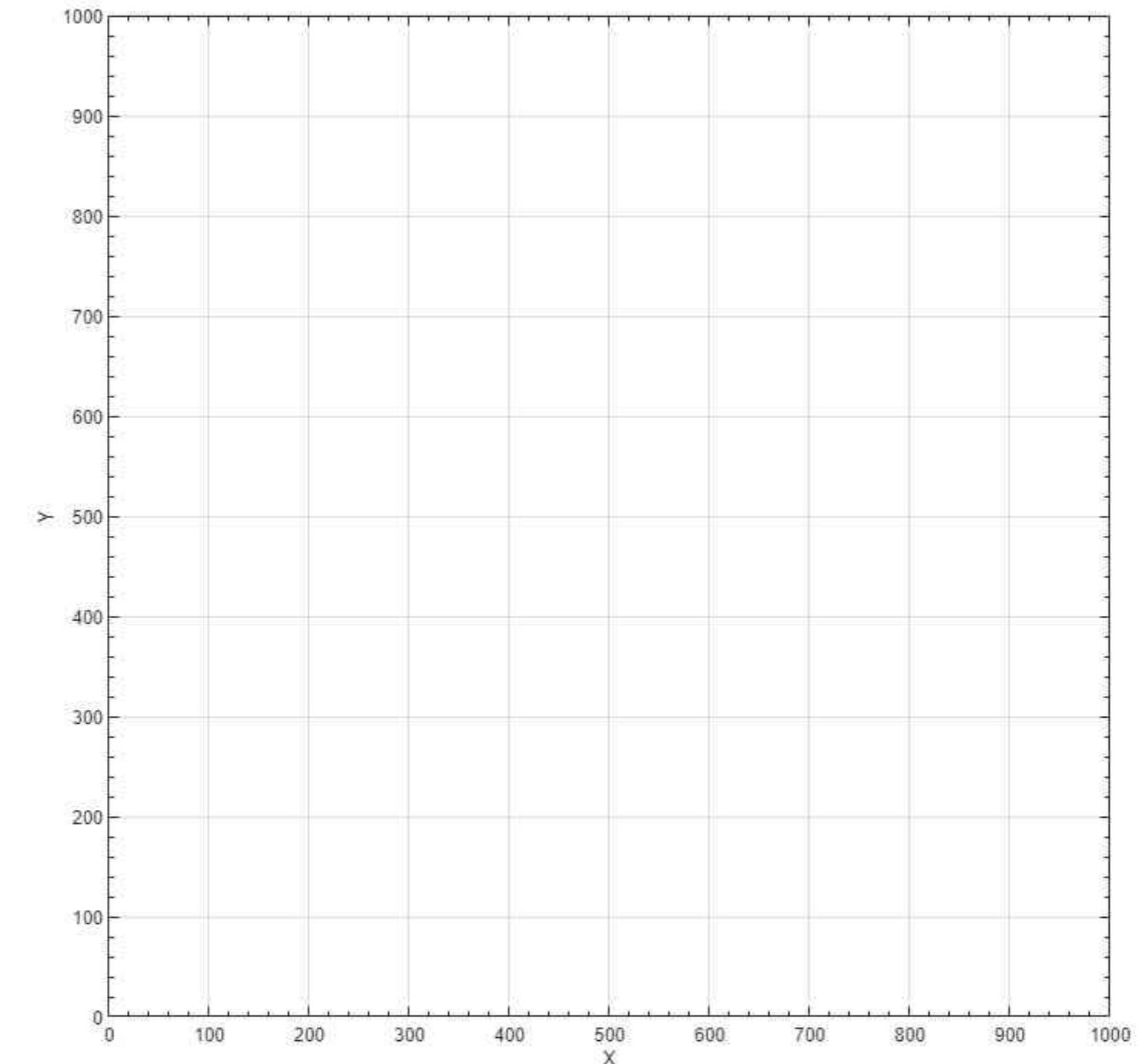
Background Image

L:

Interactive on off Target:

scale factor: Scale Image

Interactive Area



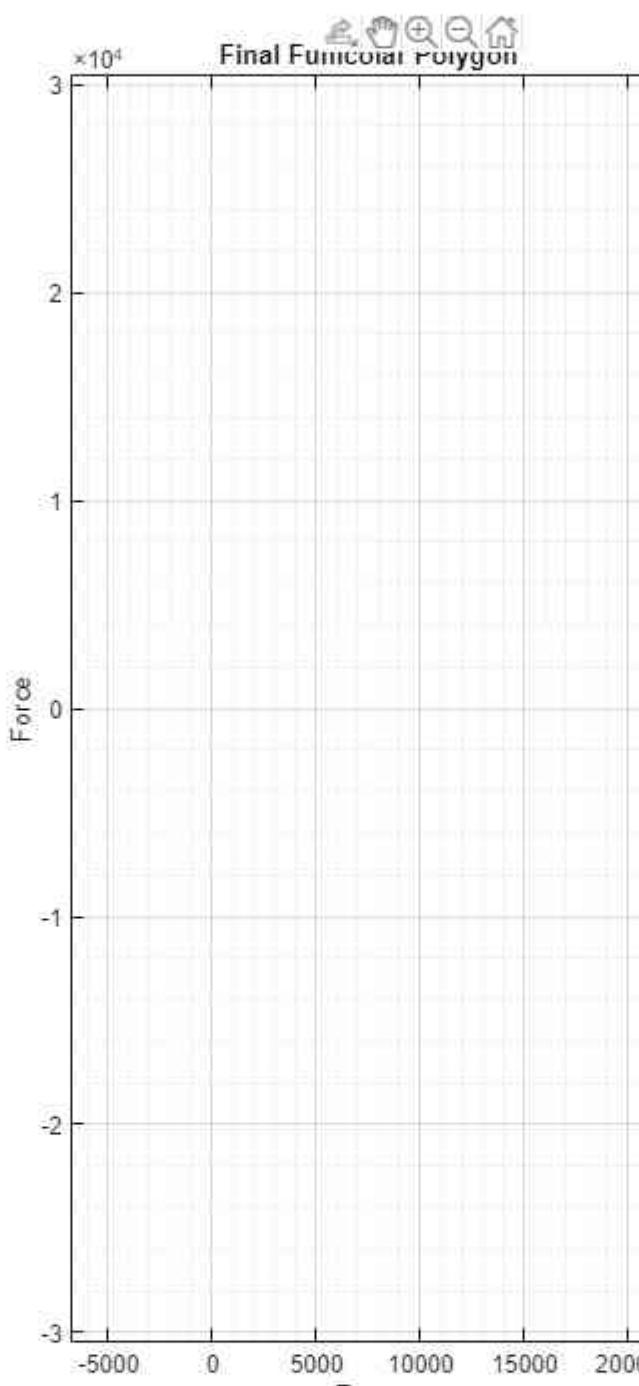
Current units: [m] [kg] [N] [Pa]

Graphics Save/Load Example Blocks properties Units

Save to folder Example Save as: FileName_Example

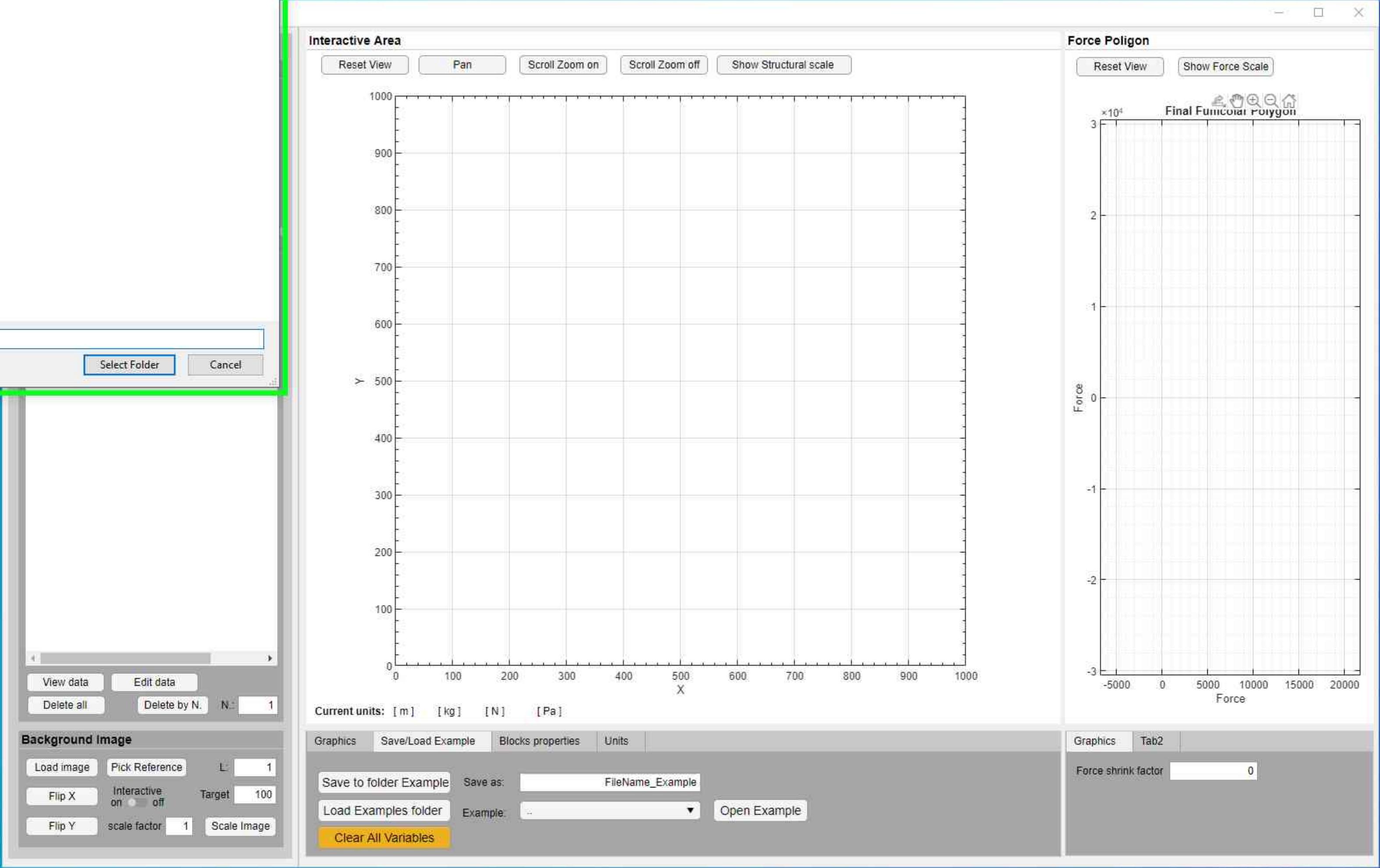
Load Examples folder Example: Open Example

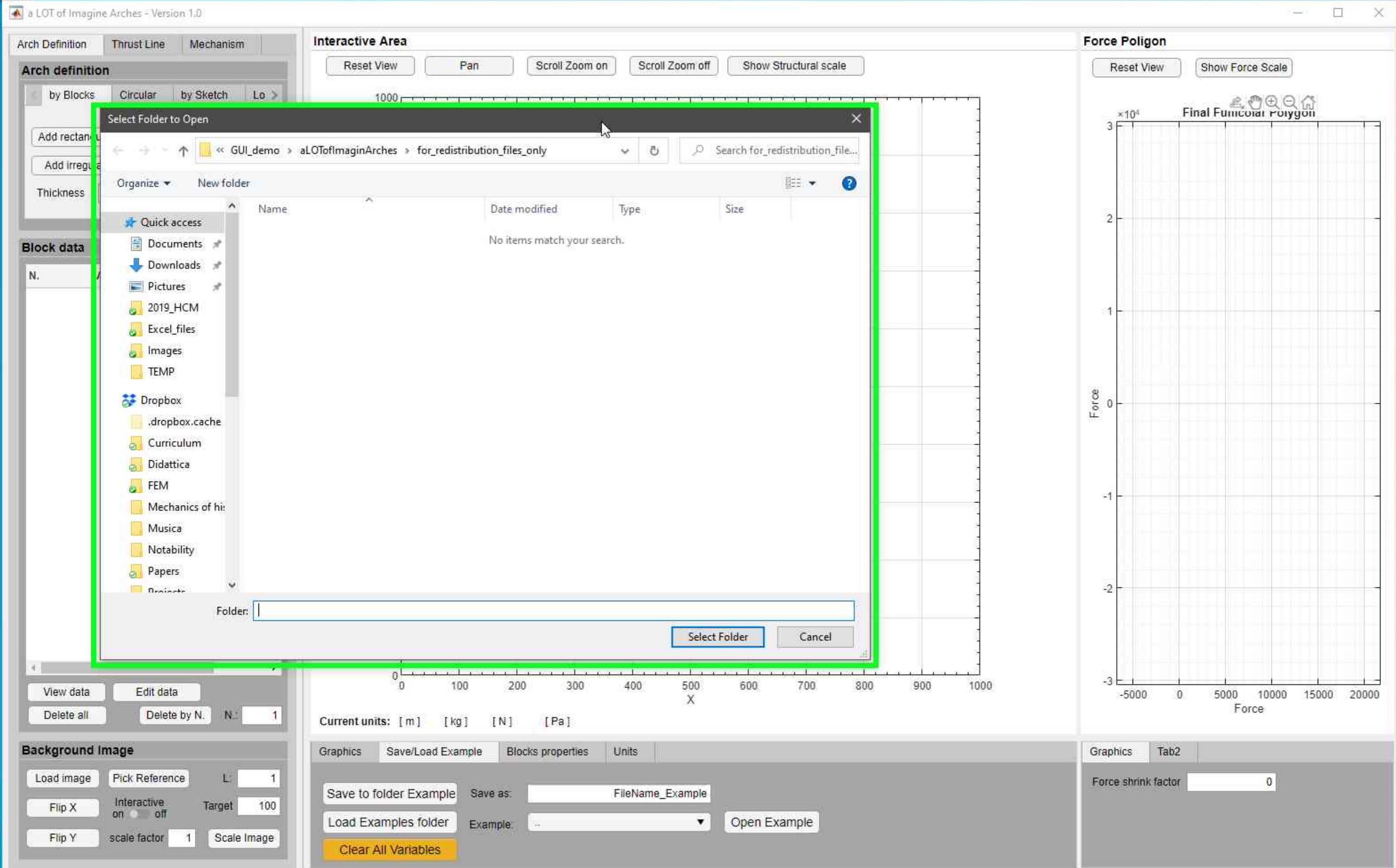
Force Polygon

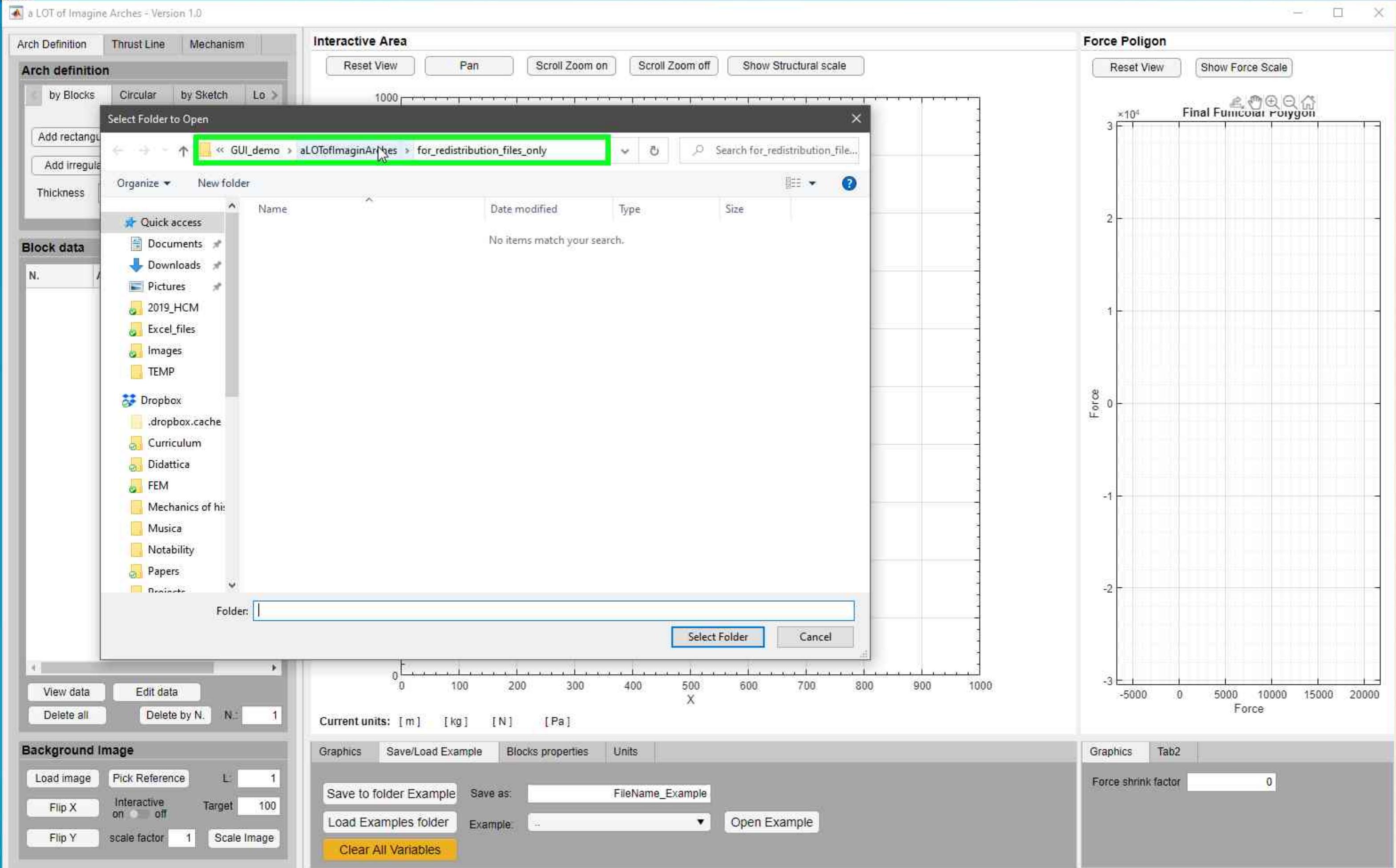


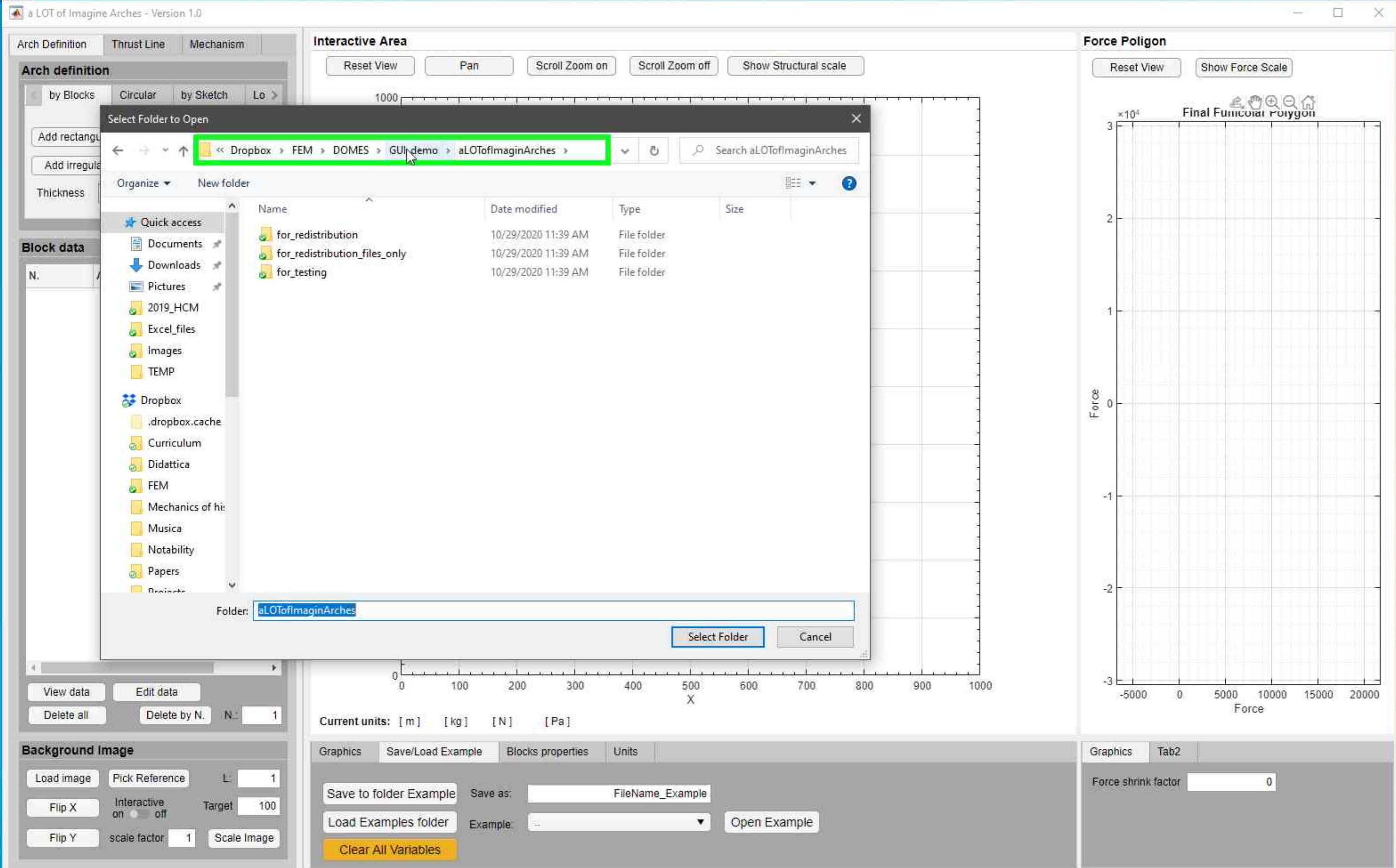
Graphics Tab2

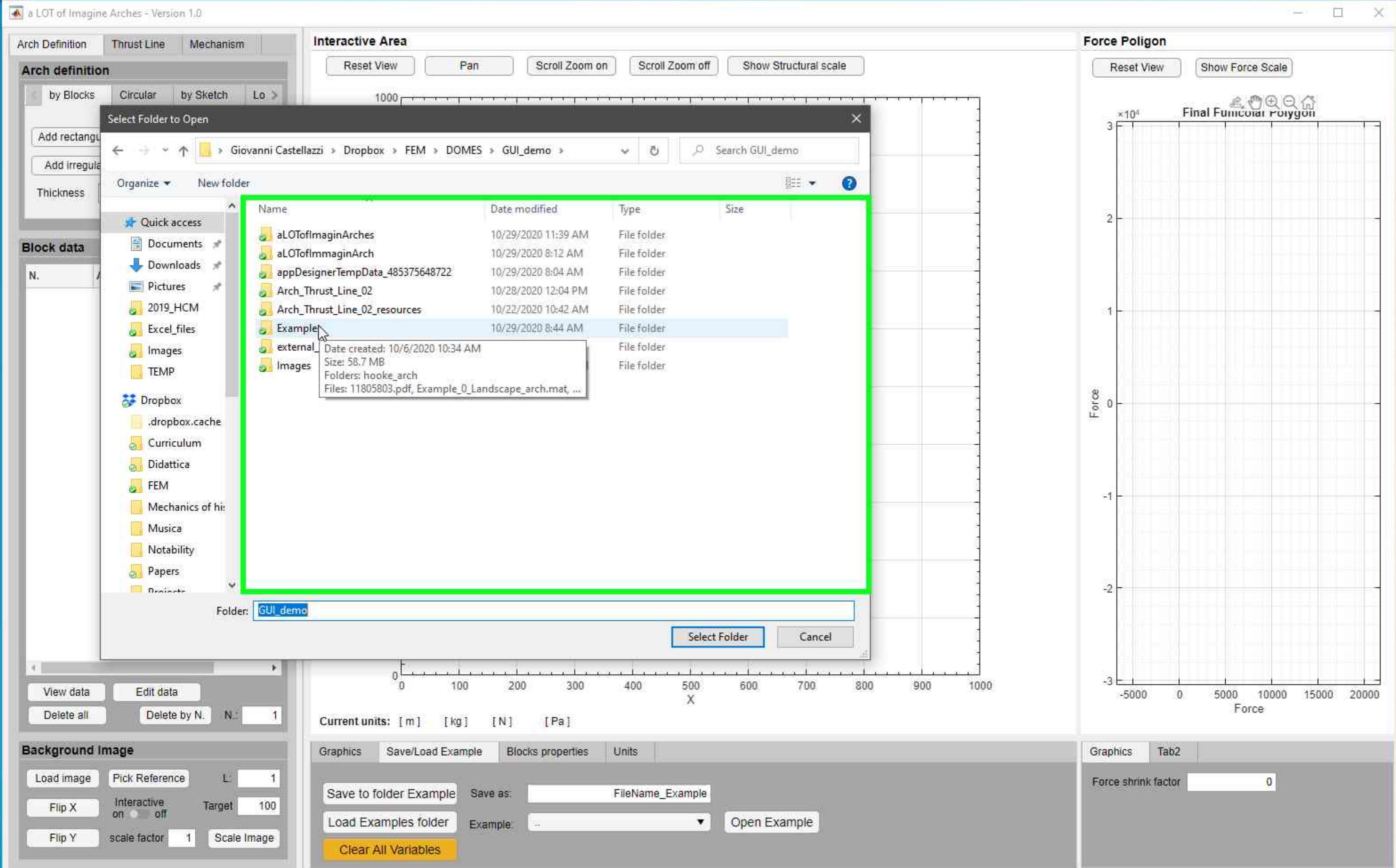
Force shrink factor:

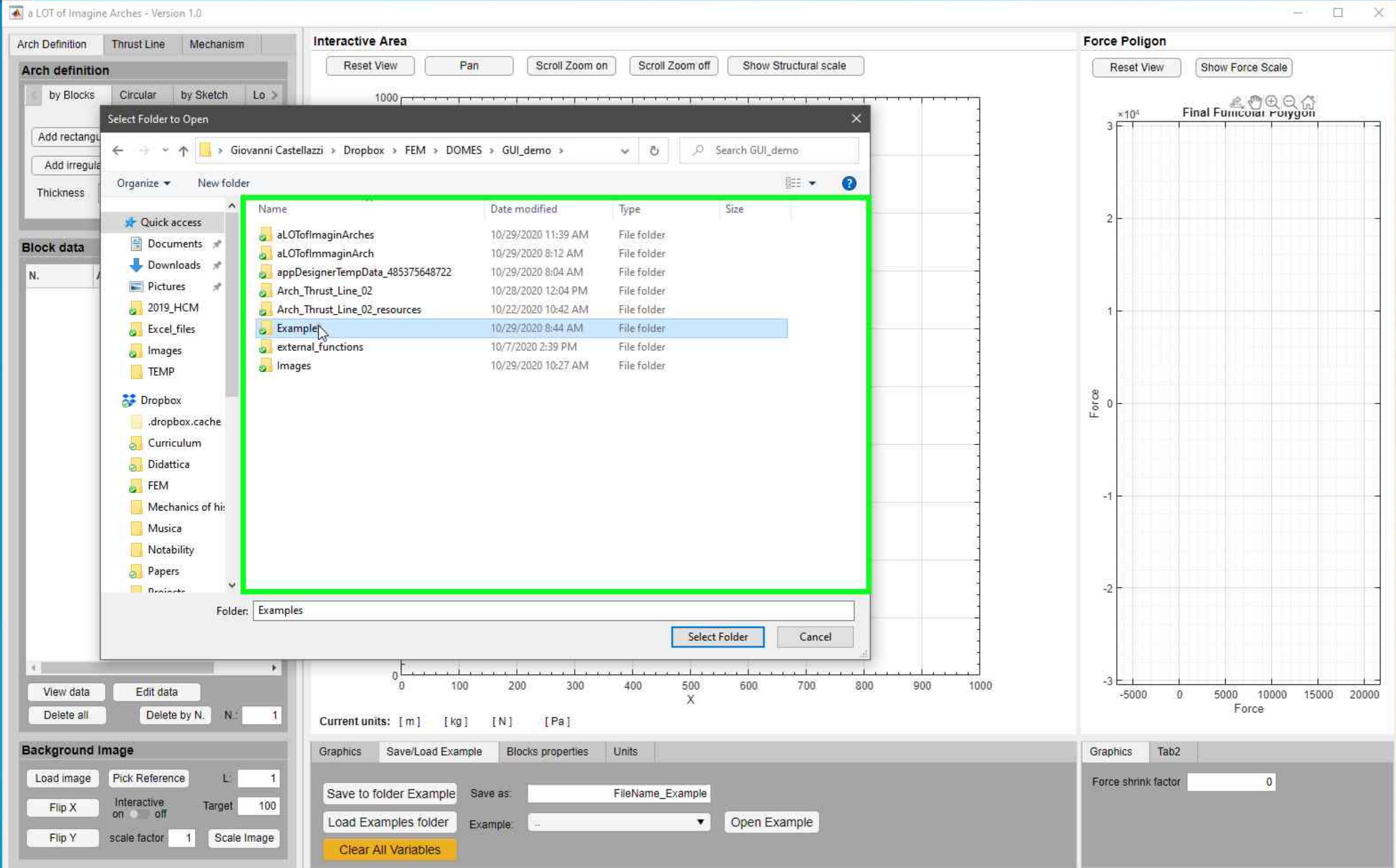


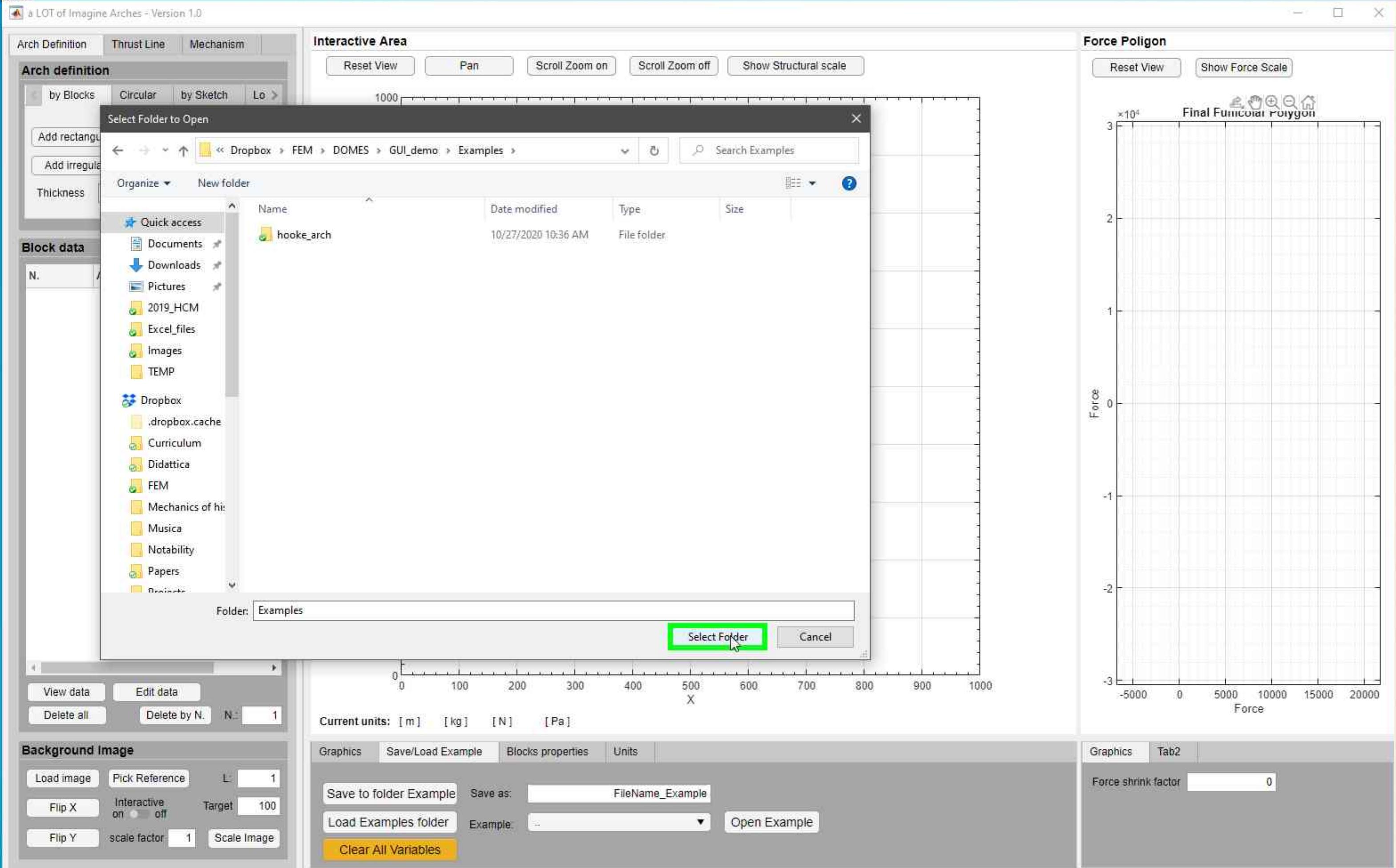












Arch Definition Thrust Line Mechanism

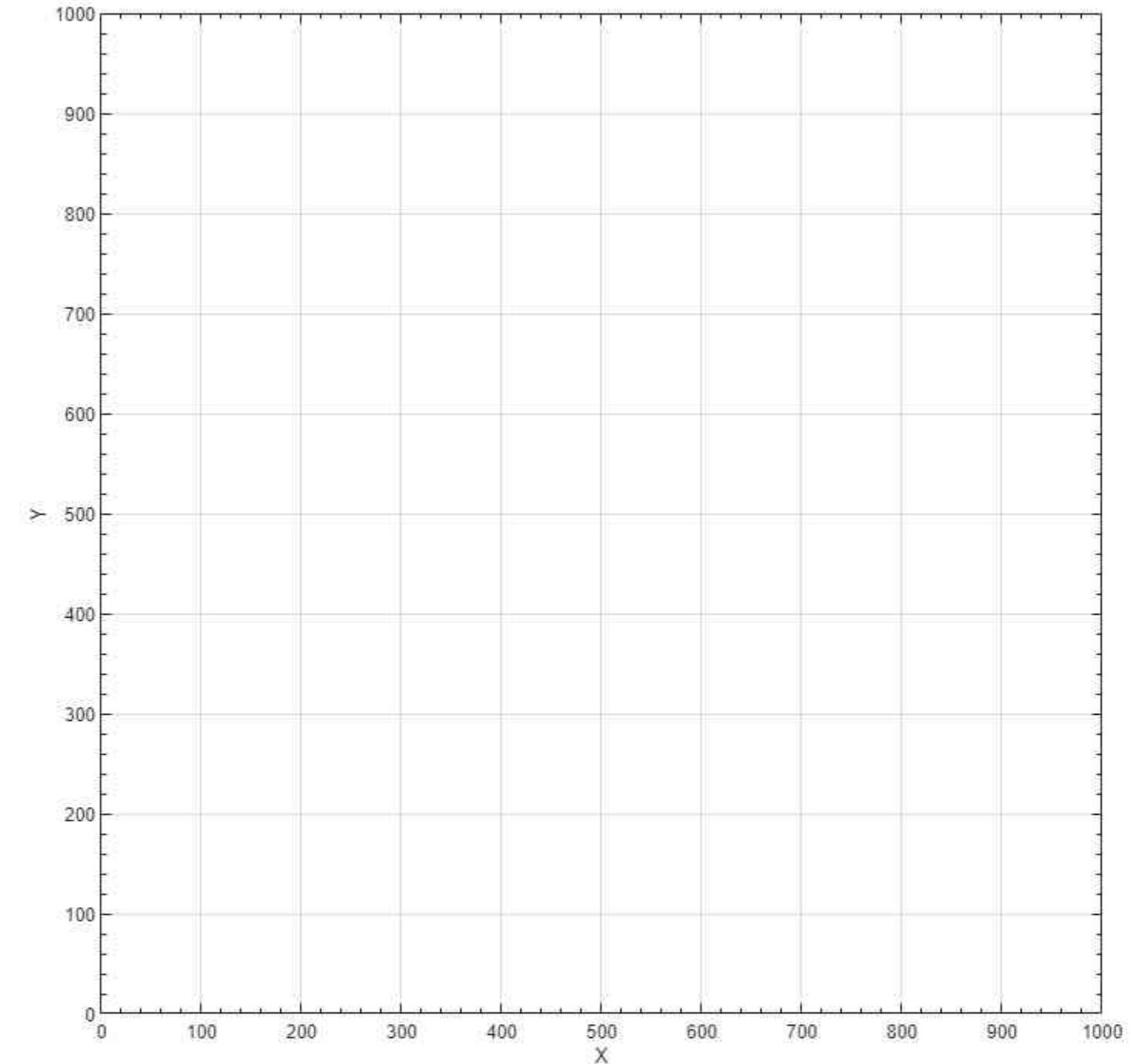
Arch definition
 by Blocks Circular by Sketch Lo >

Add rectangular block

Add irregular Block N. of points Thickness **Block data**

N.	Area	Weight	Xg
----	------	--------	----

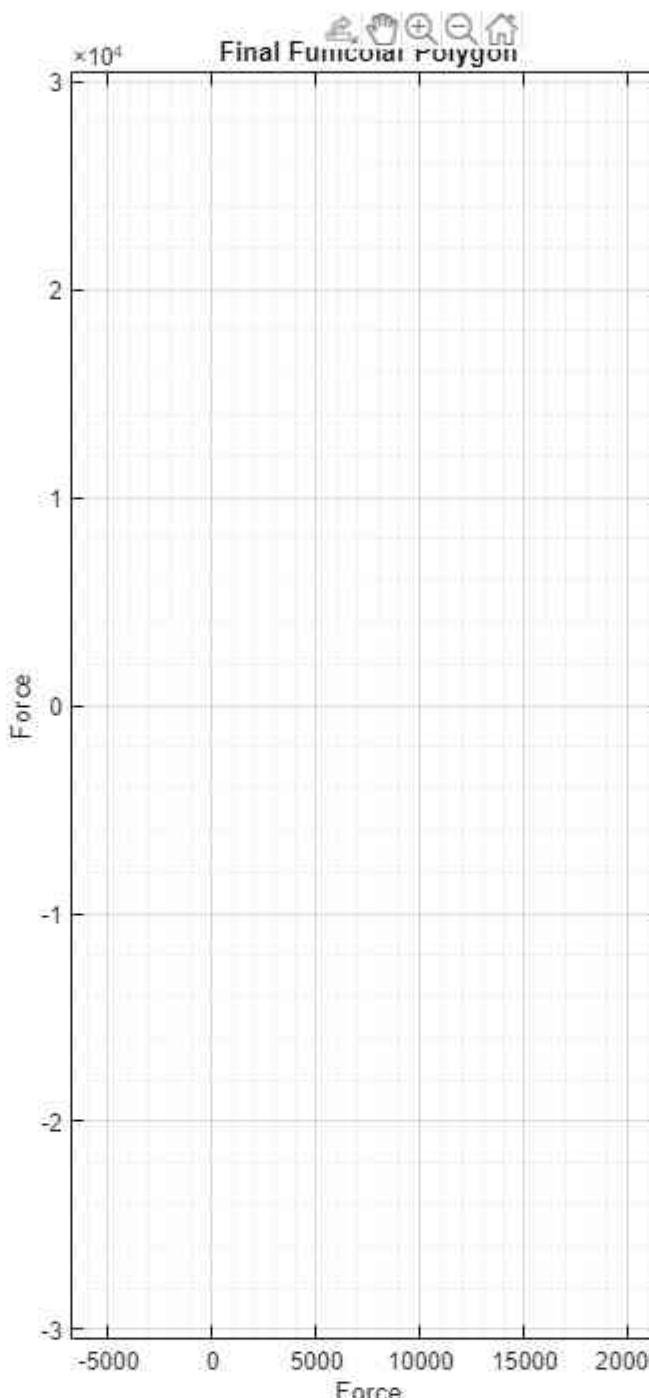
 N:
Background Image
 L:
 Interactive on off Target:
 scale factor:
Interactive Area



Current units: [m] [kg] [N] [Pa]

Save to folder Example Save as:
 Example:

Force Polygon



Force shrink factor

Arch Definition Thrust Line Mechanism

Arch definition

by Blocks Circular by Sketch Lo >

Add rectangular block

Add irregular Block N. of points

Thickness

Block data

N.	Area	Weight	Xg
----	------	--------	----

N:

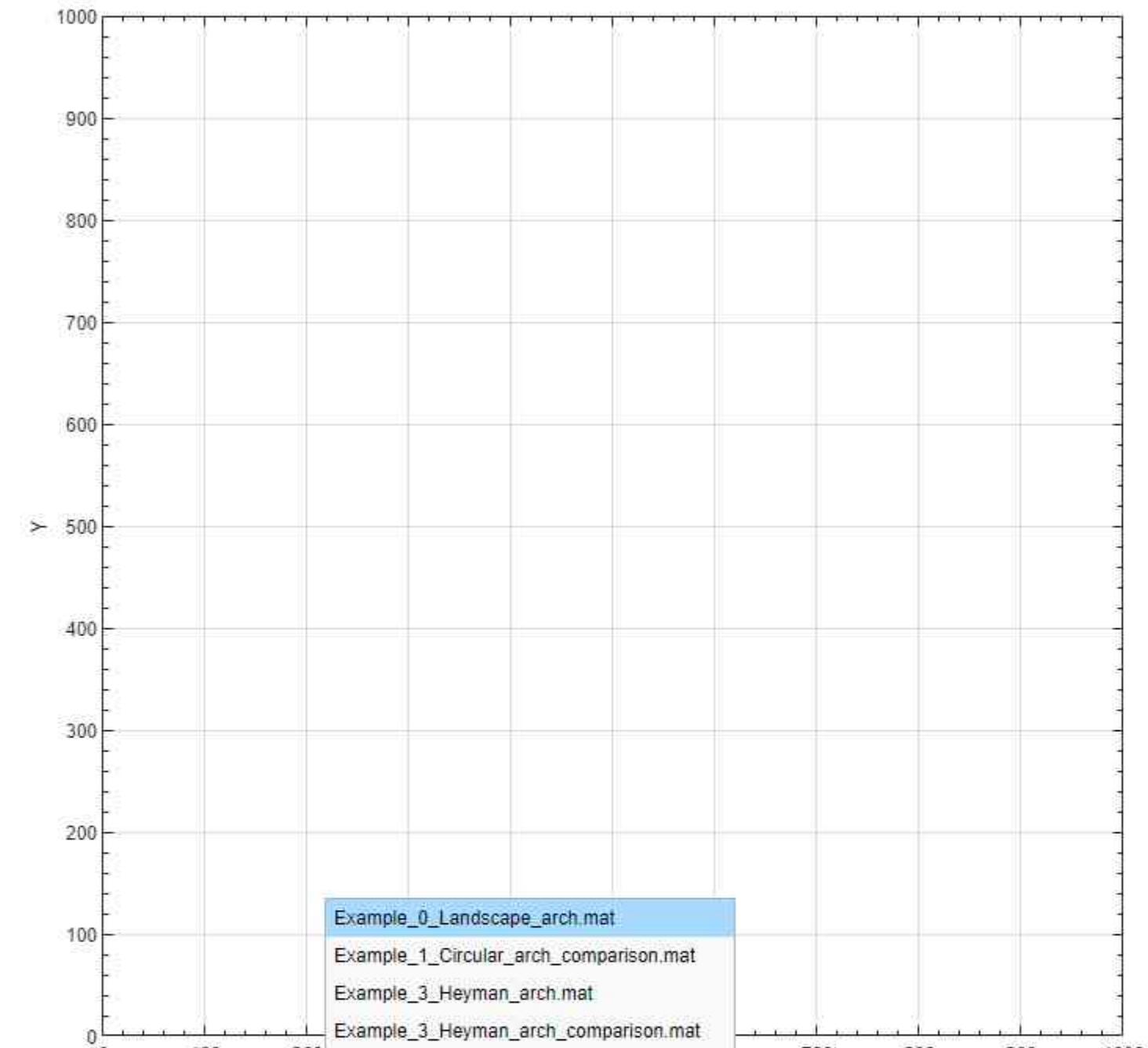
Background Image

L:

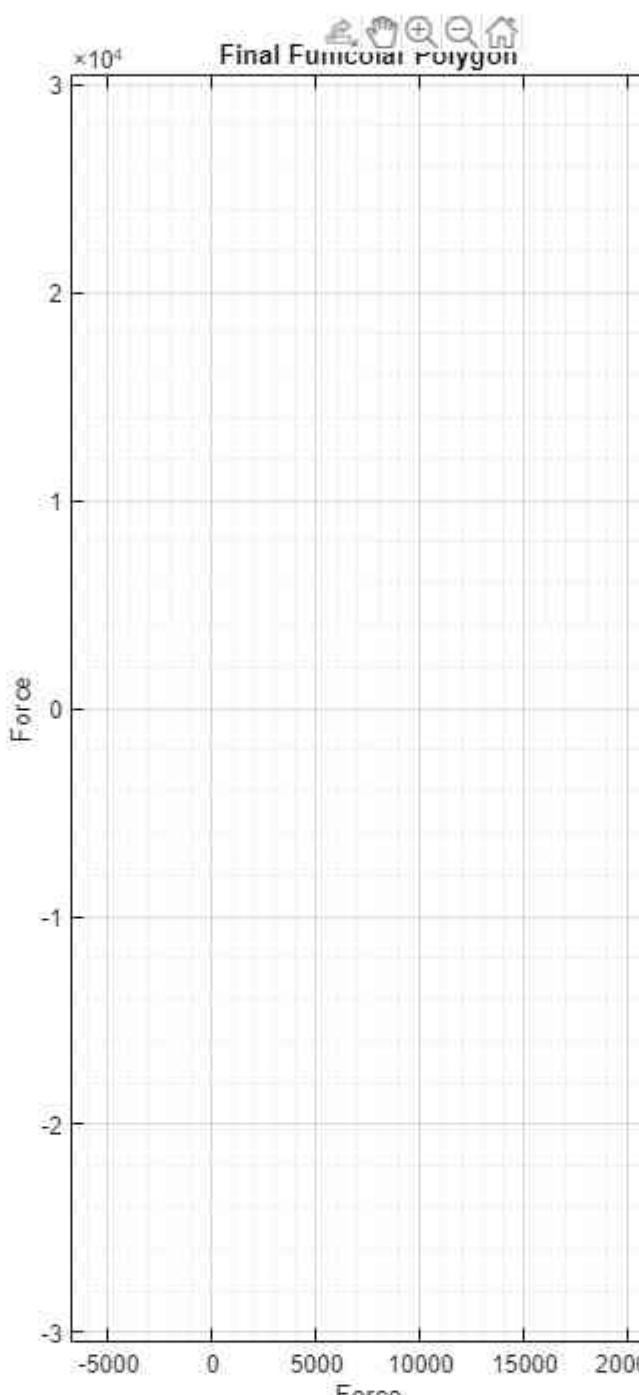
Interactive on off Target:

scale factor: Scale Image

Interactive Area



Force Polygon



Force shrink factor:

Arch Definition Thrust Line Mechanism

Arch definition

by Blocks Circular by Sketch Lo >

Add rectangular block

Add irregular Block N. of points

Thickness

Block data

N.	Area	Weight	Xg
----	------	--------	----

N:

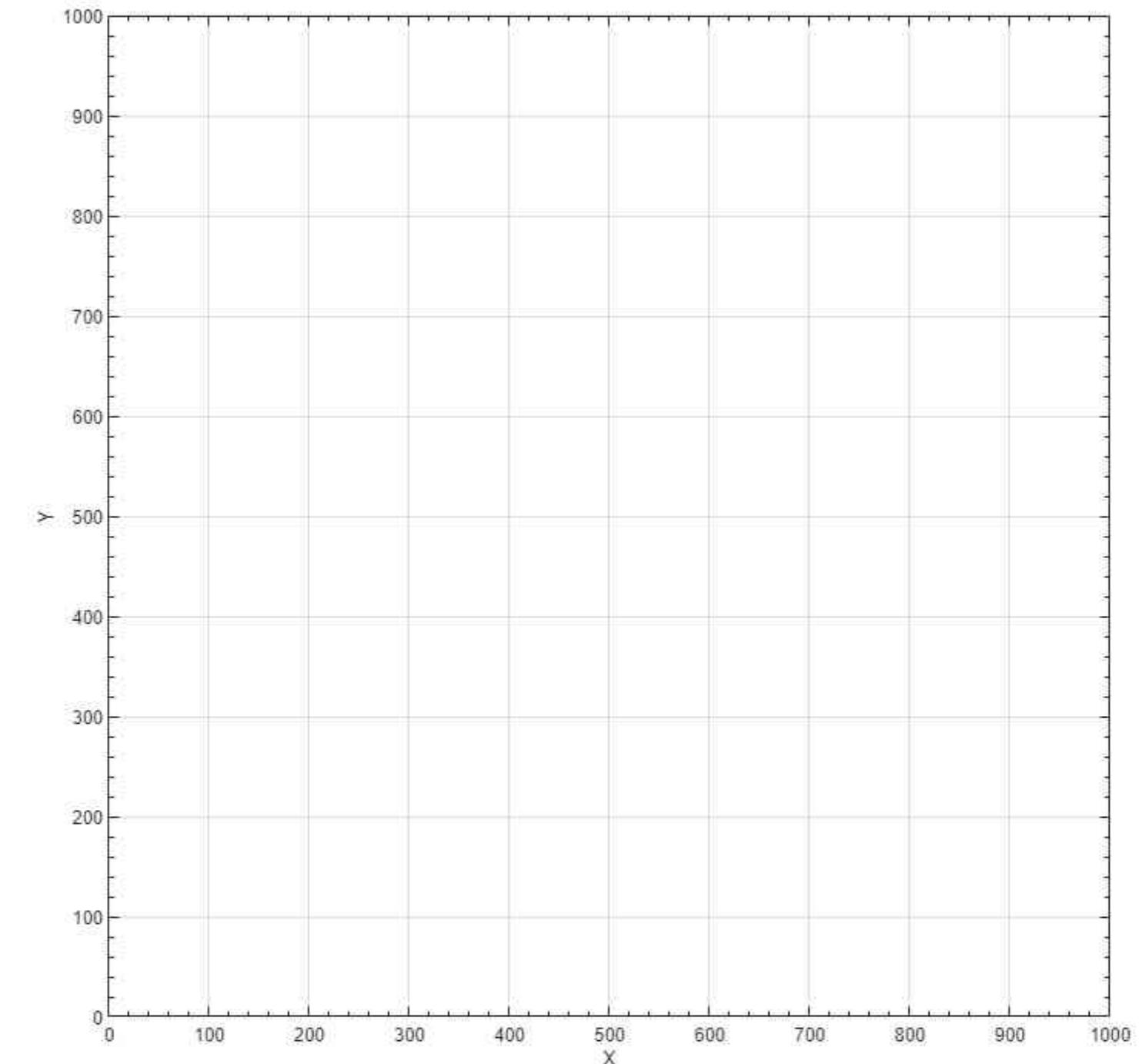
Background Image

L:

Interactive on off Target:

scale factor: Scale Image

Interactive Area



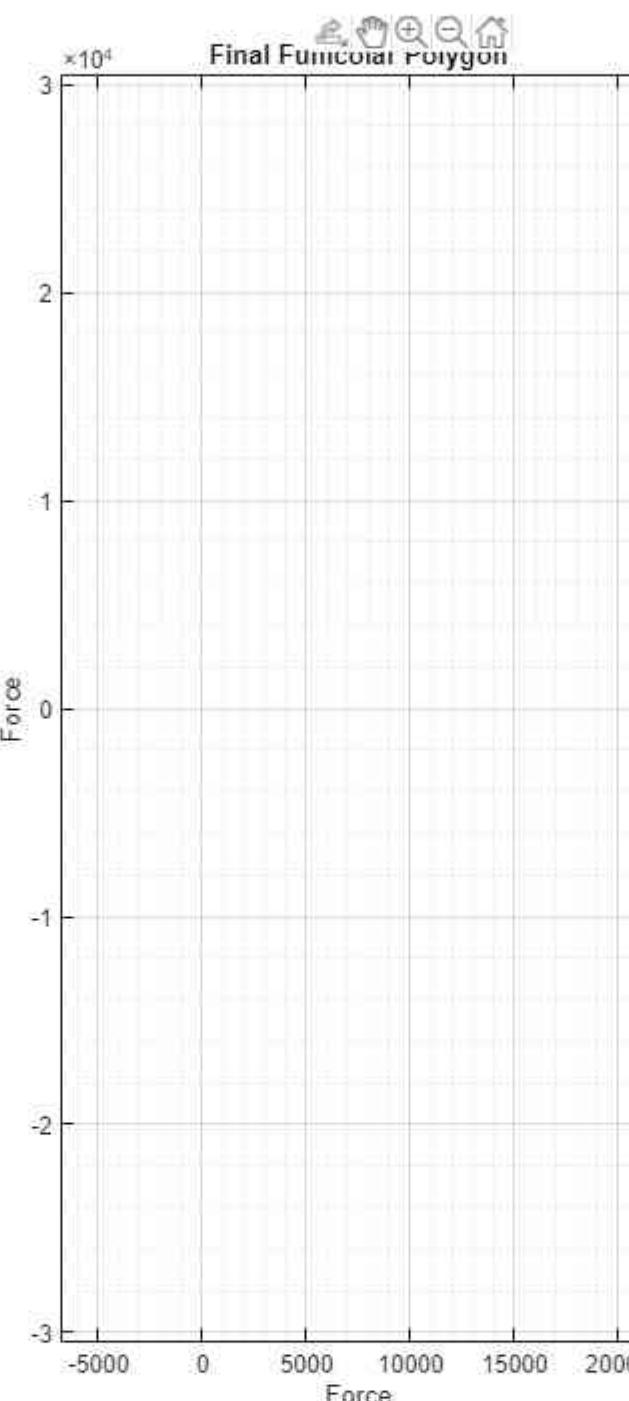
Current units: [m] [kg] [N] [Pa]

Graphics Save/Load Example Blocks properties Units

Save to folder Example Save as: FileName_Example

Load Examples folder Example: Example_0_Landscape_arch...

Force Polygon



Graphics Tab2

Force shrink factor:

Arch Definition Thrust Line Mechanism

Arch definition

by Blocks Circular by Sketch Lo >

Add rectangular block

Add irregular Block N. of points 6

Thickness 0

Block data

N.	Area	Weight	Xg
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N: 1

Background Image

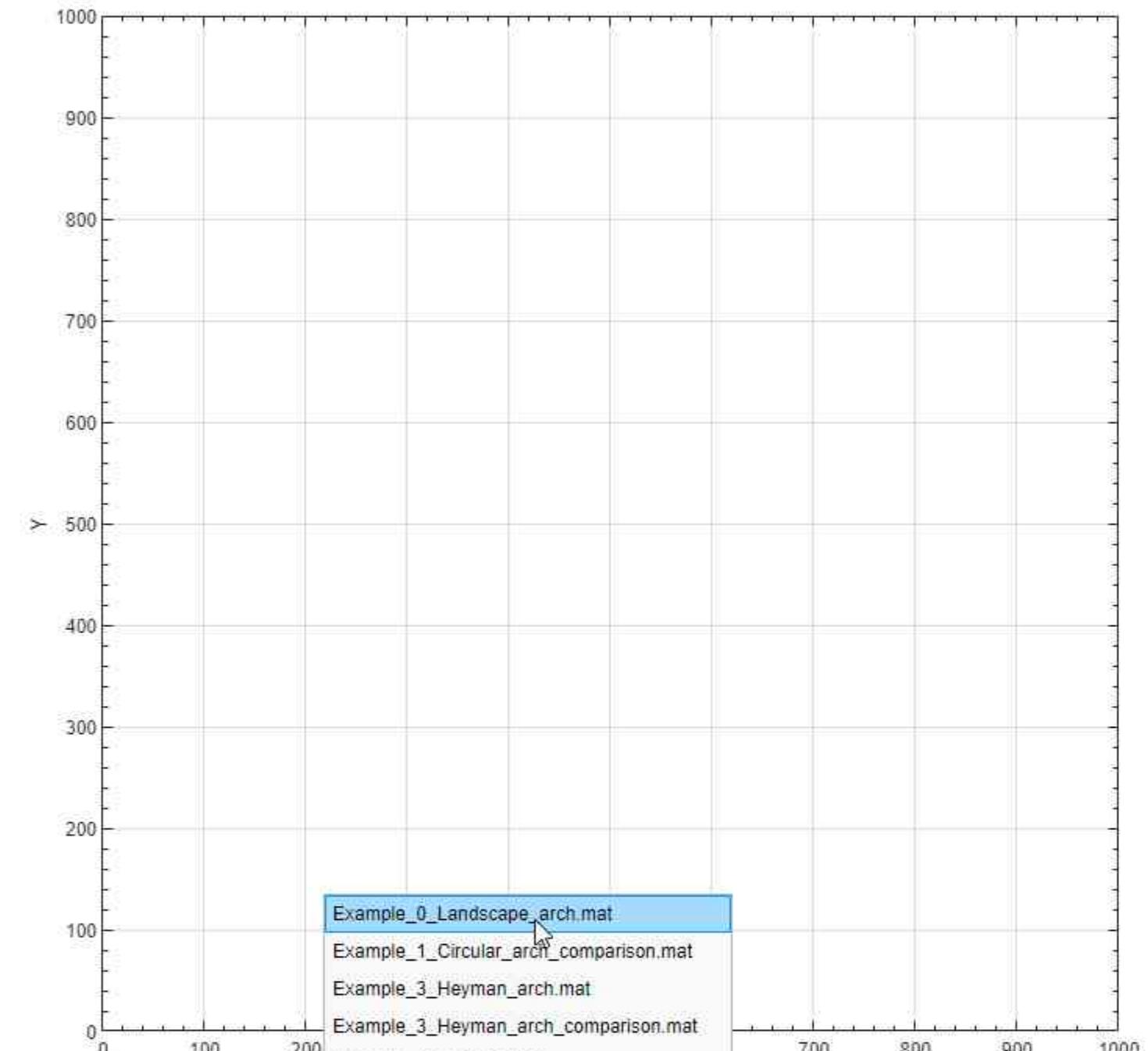
L: 1

Interactive on off Target 100

scale factor 1

Interactive Area

Reset View Pan Scroll Zoom on Scroll Zoom off Show Structural scale



Graphics Save/Load Example Bloc

Save to folder Example Save as:

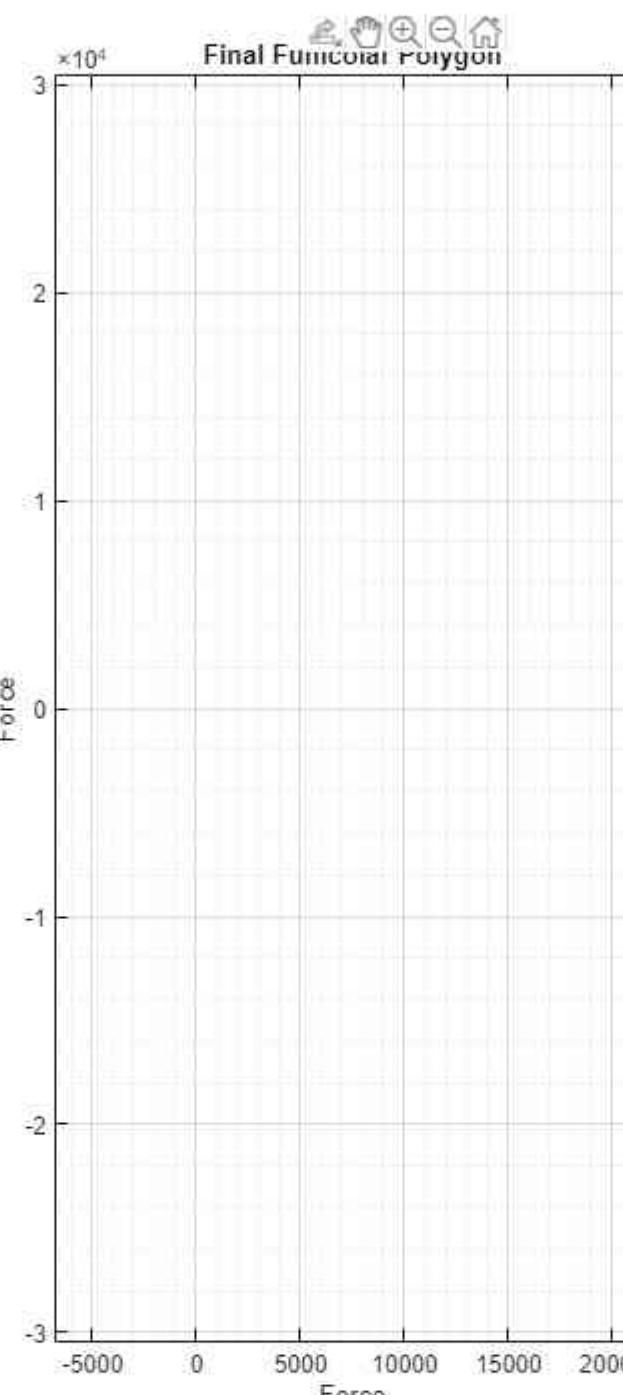
Load Examples folder Example:

Open Example

Clear All Variables

Force Polygon

Reset View Show Force Scale



Graphics Tab2

Arch Definition Thrust Line Mechanism

Arch definition

by Blocks Circular by Sketch Lo >

Add rectangular block

Add irregular Block N. of points

Thickness

Block data

N.	Area	Weight	Xg
----	------	--------	----

N:

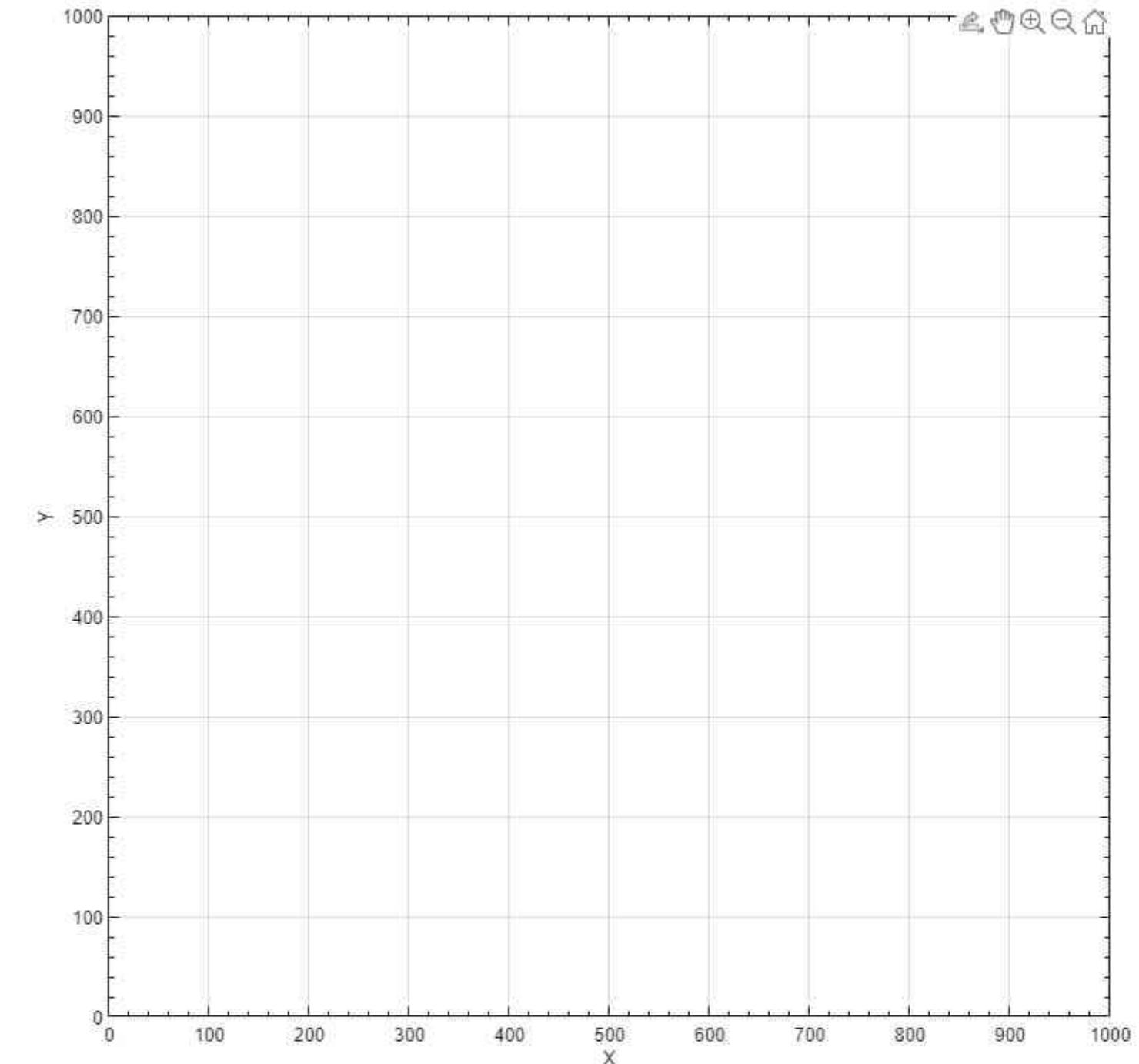
Background Image

L:

Interactive on off Target:

scale factor: Scale Image

Interactive Area



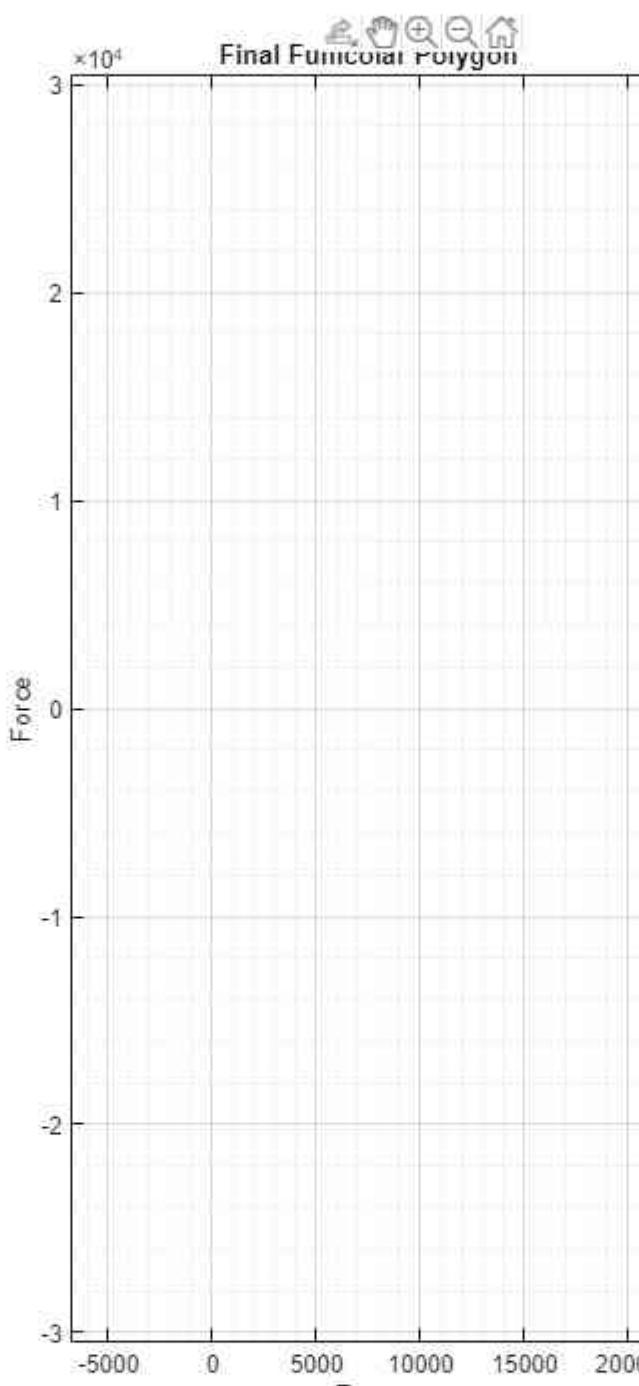
Current units: [m] [kg] [N] [Pa]

Graphics Save/Load Example Blocks properties Units

Save to folder Example Save as: FileName_Example

Load Examples folder Example: Example_0_Landscape_arch... ▾ Open Example

Force Polygon



Graphics Tab2

Force shrink factor:

Arch Definition Thrust Line Mechanism

Arch definition

by Blocks Circular by Sketch Lo >

Add rectangular block

Add irregular Block N. of points

Thickness

Block data

N.	Area	Weight	Xg
1	6.0294e+03	120.5889	930
2	4.3021e+03	86.0429	892
3	3.1257e+03	62.5145	857
4	2.2505e+03	45.0095	825
5	1.6523e+03	33.0455	791
6	1.1450e+03	22.8998	757
7	827.1138	16.5423	724
8	763.6198	15.2724	689
9	939.2885	18.7858	656
10	1.1240e+03	22.4798	622
11	1.2240e+03	24.4806	589
12	1.3187e+03	26.3740	556
13	1.4024e+03	28.0487	521
14	1.4680e+03	29.7597	487
15	1.7222e+03	34.4443	452
16	2.1110e+03	42.2203	417
17	2.4604e+03	49.2085	382
18	2.6982e+03	53.9230	347
19	2.7406e+03	54.8113	313
20	2.6075e+03	52.1504	278
21	2.4810e+03	49.6195	244

N:

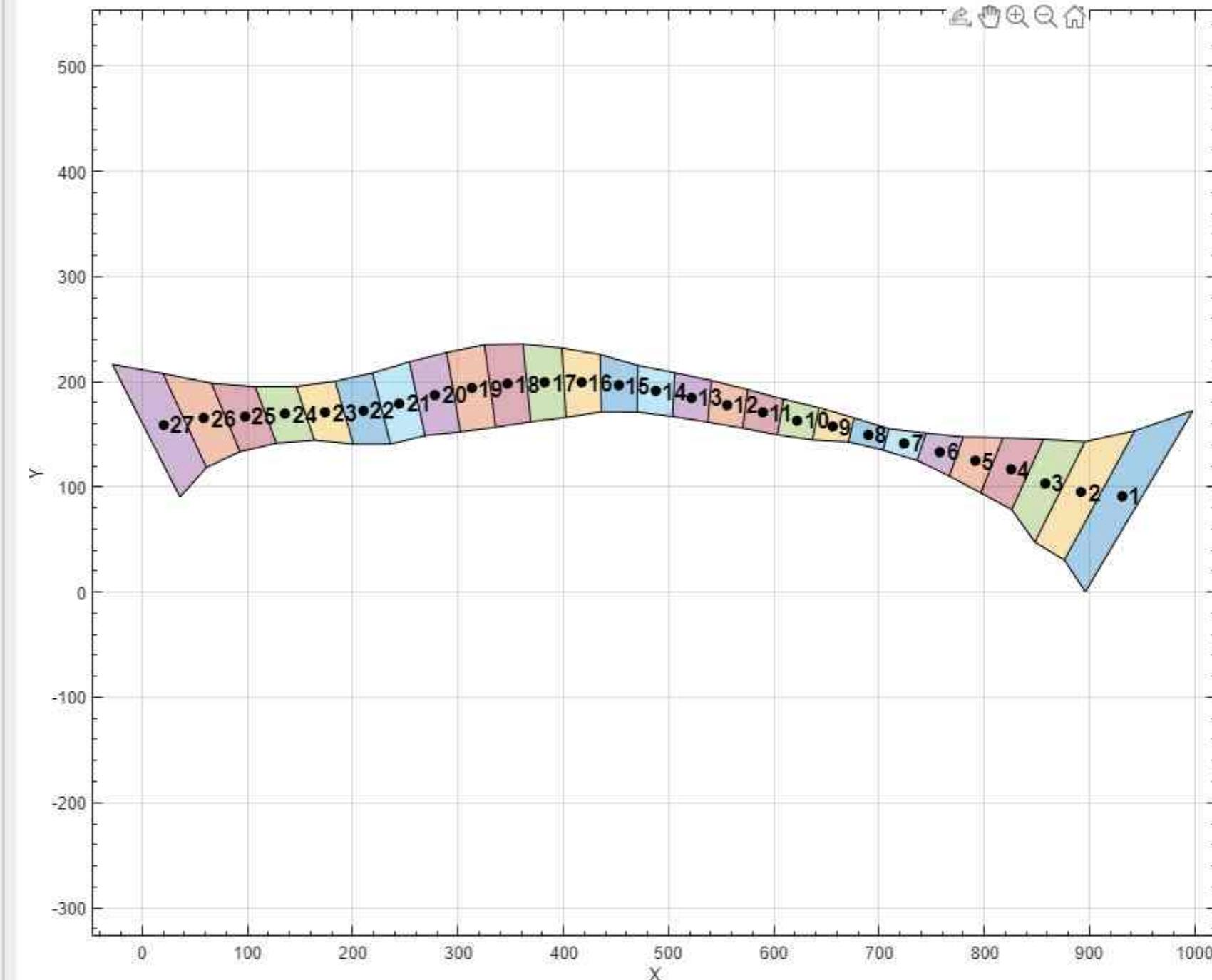
Background Image

L:

Interactive on off Target:

scale factor: Scale Image

Interactive Area



Current units: [mm] [tons] [N] [MPa]

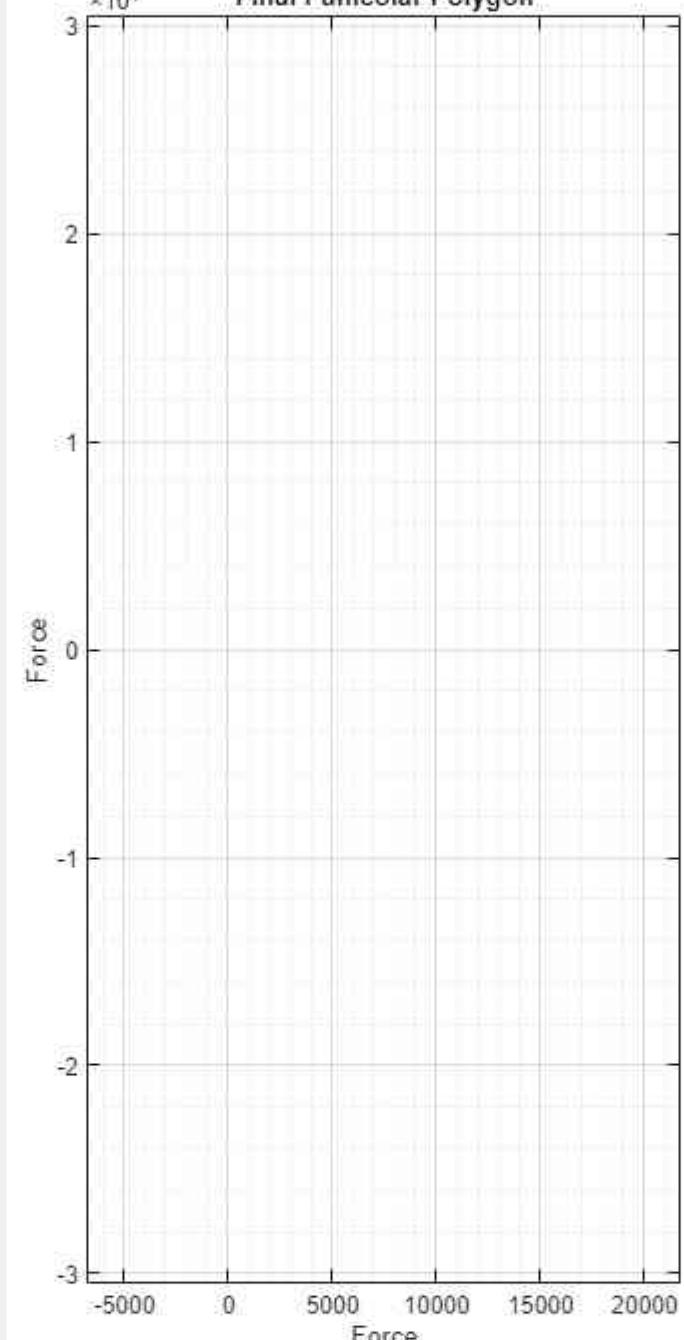
Save as:

Example:

Force Polygon



Final Funicular Polygon $\times 10^4$



Force shrink factor:

Arch Definition Thrust Line Mechanism

Arch definition

by Blocks Circular by Sketch Lo >

Add rectangular block

Add irregular Block N. of points

Thickness

Block data

N.	Area	Weight	Xg
1	6.0294e+03	120.5889	930
2	4.3021e+03	86.0429	892
3	3.1257e+03	62.5145	857
4	2.2505e+03	45.0095	825
5	1.6523e+03	33.0455	791
6	1.1450e+03	22.8998	757
7	827.1138	16.5423	724
8	763.6198	15.2724	689
9	939.2885	18.7858	656
10	1.1240e+03	22.4798	622
11	1.2240e+03	24.4806	589
12	1.3187e+03	26.3740	556
13	1.4024e+03	28.0487	521
14	1.4680e+03	29.7597	487
15	1.7222e+03	34.4443	452
16	2.1110e+03	42.2203	417
17	2.4604e+03	49.2085	382
18	2.6982e+03	53.9230	347
19	2.7406e+03	54.8113	313
20	2.6075e+03	52.1504	278
21	2.4810e+03	49.6195	244

 N:

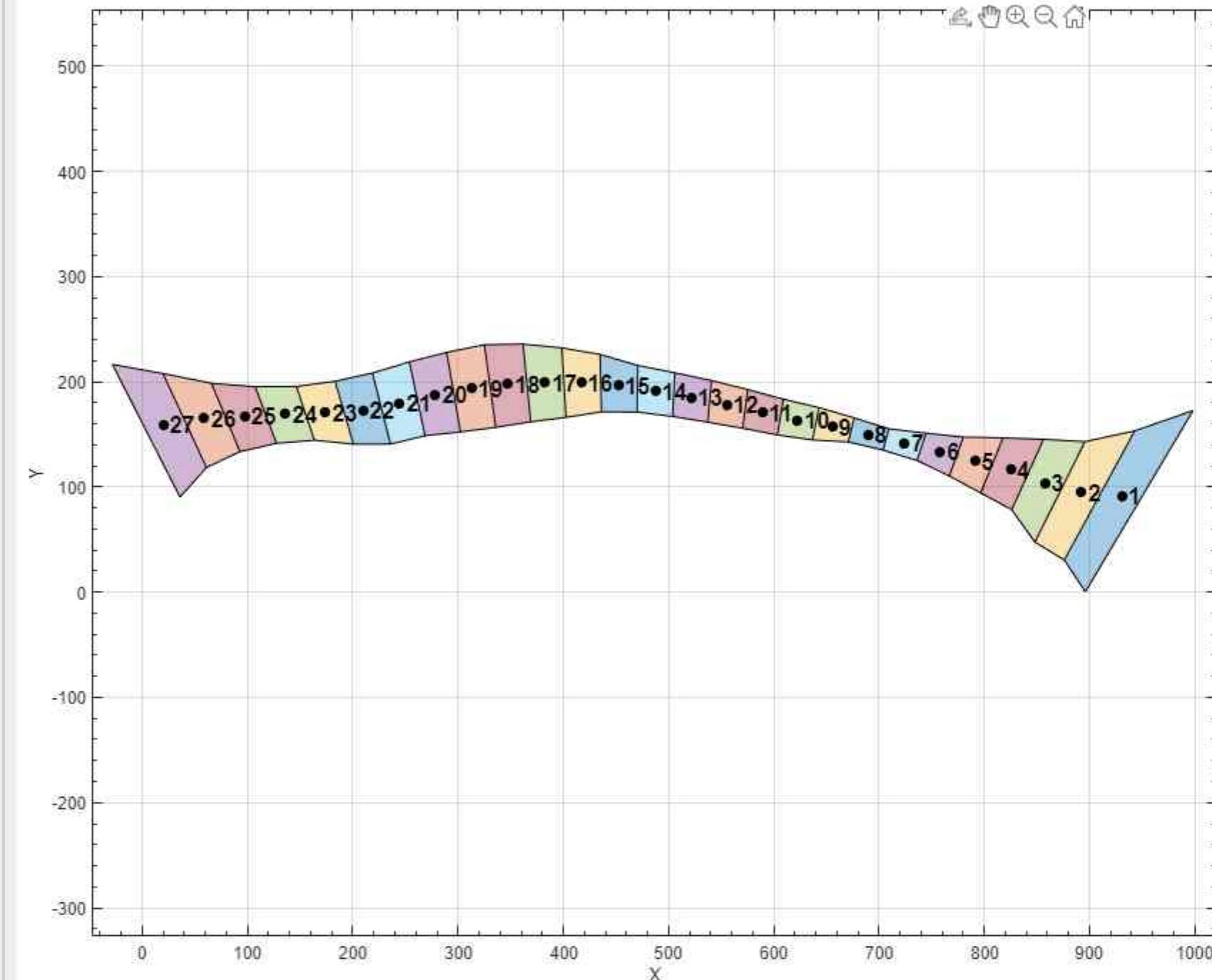
Background Image

 L:

 Interactive on off Target:

 scale factor:

Interactive Area



Current units: [mm] [tons] [N] [MPa]

 forces factor: Force Magnitude Off On

 alpha W: Background Image Off On

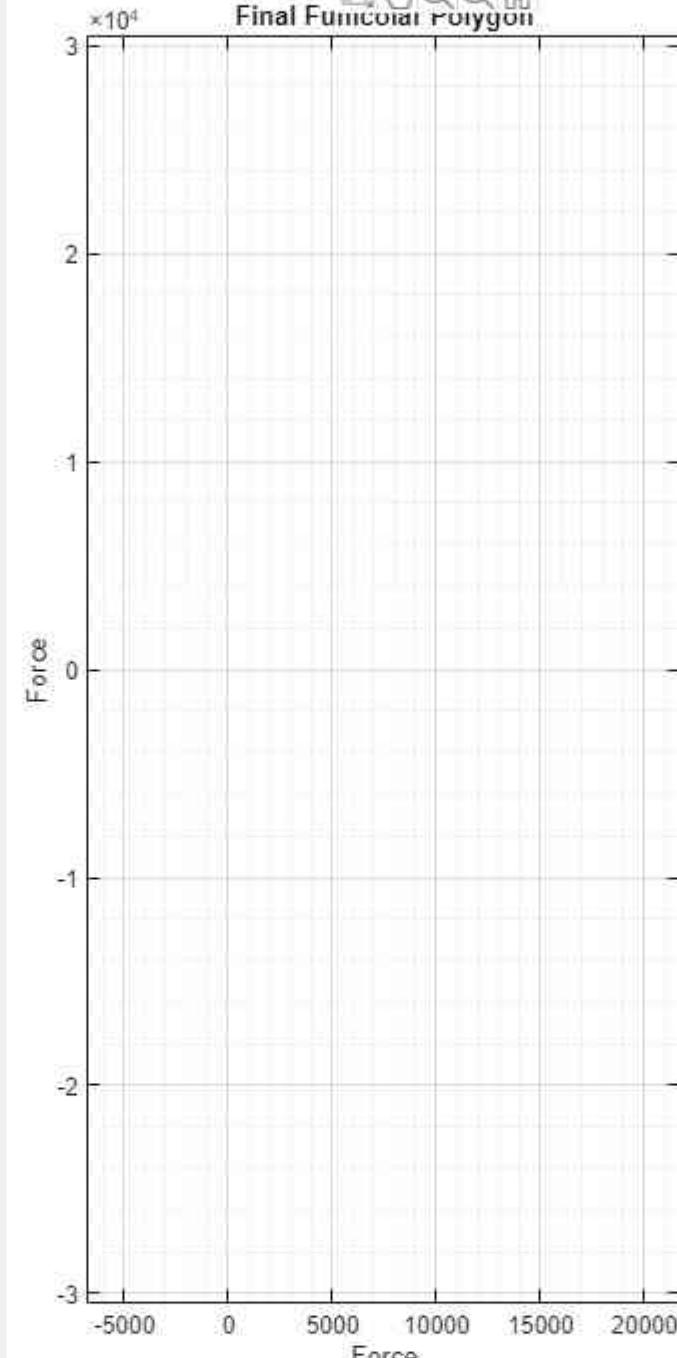
 Sketched Geometry Off On

Text / Labels Off On

Force Polygon



Final Funicular Polygon



Force shrink factor:

Arch Definition Thrust Line Mechanism

Arch definition

by Blocks Circular by Sketch Lo >

Add rectangular block

Add irregular Block N. of points

Thickness

Block data

N.	Area	Weight	Xg
1	6.0294e+03	120.5889	930
2	4.3021e+03	86.0429	892
3	3.1257e+03	62.5145	857
4	2.2505e+03	45.0095	825
5	1.6523e+03	33.0455	791
6	1.1450e+03	22.8998	757
7	827.1138	16.5423	724
8	763.6198	15.2724	689
9	939.2885	18.7858	656
10	1.1240e+03	22.4798	622
11	1.2240e+03	24.4806	589
12	1.3187e+03	26.3740	556
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14	1.4680e+03	29.7597	487
15	1.7222e+03	34.4443	452
16	2.1110e+03	42.2203	417
17	2.4604e+03	49.2085	382
18	2.6982e+03	53.9230	347
19	2.7406e+03	54.8113	313
20	2.6075e+03	52.1504	278
21	2.4810e+03	49.6195	244

 N:

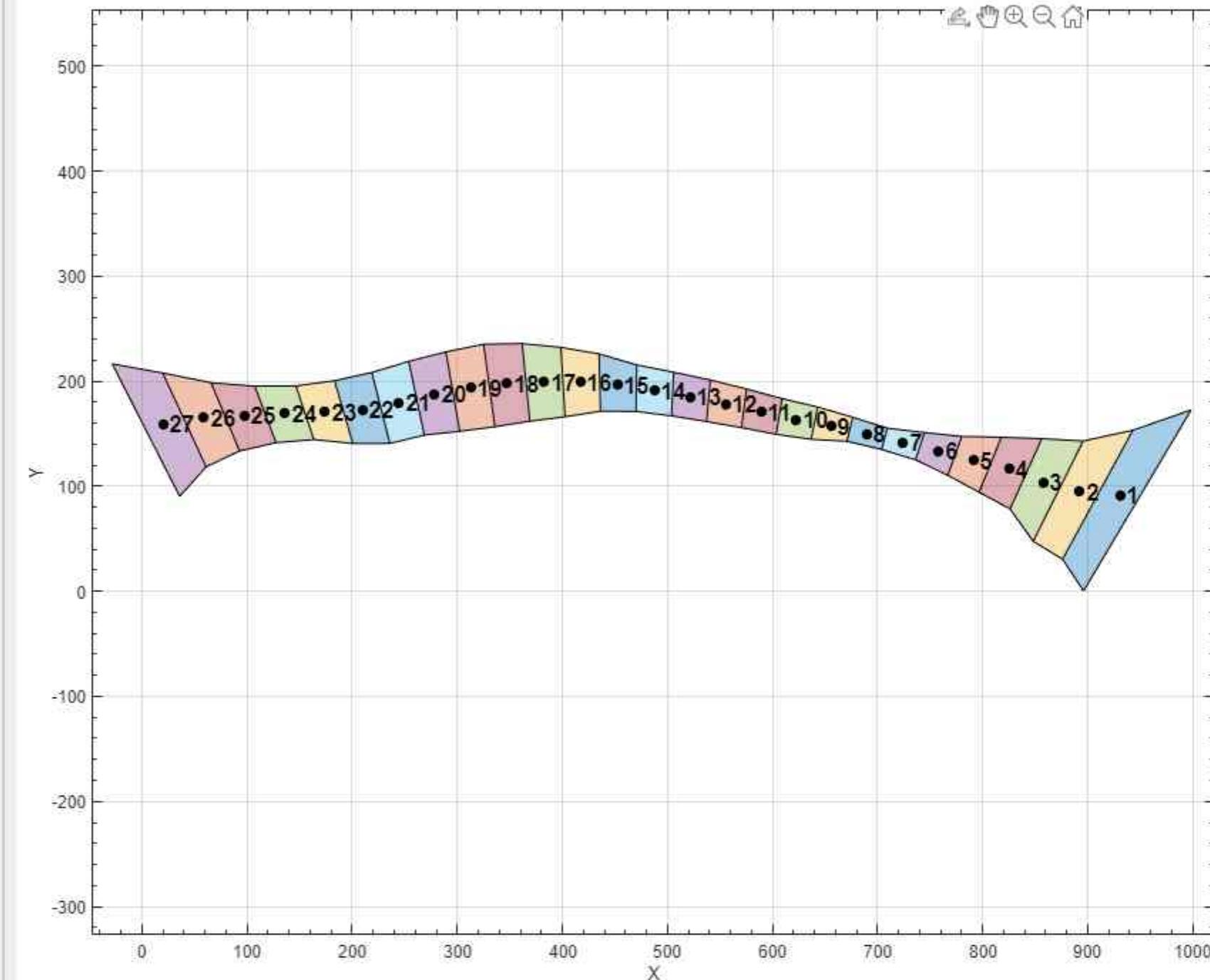
Background Image

 L:

 Interactive on off Target:

 scale factor:

Interactive Area



Current units: [mm] [tons] [N] [MPa]

Graphics Save/Load Example Blocks properties Units

 forces factor: Force Magnitude Off On

 alpha W: Background Image Off On

 Sketched Geometry Off On

Text / Labels Off On

Force Polygon



Final Funicular Polygon $\times 10^4$

Graphics Tab2

Force shrink factor:

Arch Definition Thrust Line Mechanism

Arch definition

by Blocks Circular by Sketch Lo >

Add rectangular block

Add irregular Block N. of points 6

Thickness 0

Block data

N.	Area	Weight	Xg
1	6.0294e+03	120.5889	930
2	4.3021e+03	86.0429	892
3	3.1257e+03	62.5145	857
4	2.2505e+03	45.0095	825
5	1.6523e+03	33.0455	791
6	1.1450e+03	22.8998	751
7	827.1138	16.5423	724
8	763.6198	15.2724	689
9	939.2885	18.7858	656
10	1.1240e+03	22.4798	622
11	1.2240e+03	24.4806	589
12	1.3187e+03	26.3740	556
13	1.4024e+03	28.0487	521
14	1.4680e+03	29.7597	487
15	1.7222e+03	34.4443	452
16	2.1110e+03	42.2203	417
17	2.4604e+03	49.2085	382
18	2.6982e+03	53.9230	341
19	2.7406e+03	54.8113	313
20	2.8075e+03	52.1504	278
21	2.4810e+03	49.6195	244

View data Edit data

Delete all Delete by N. N: 1

Background Image

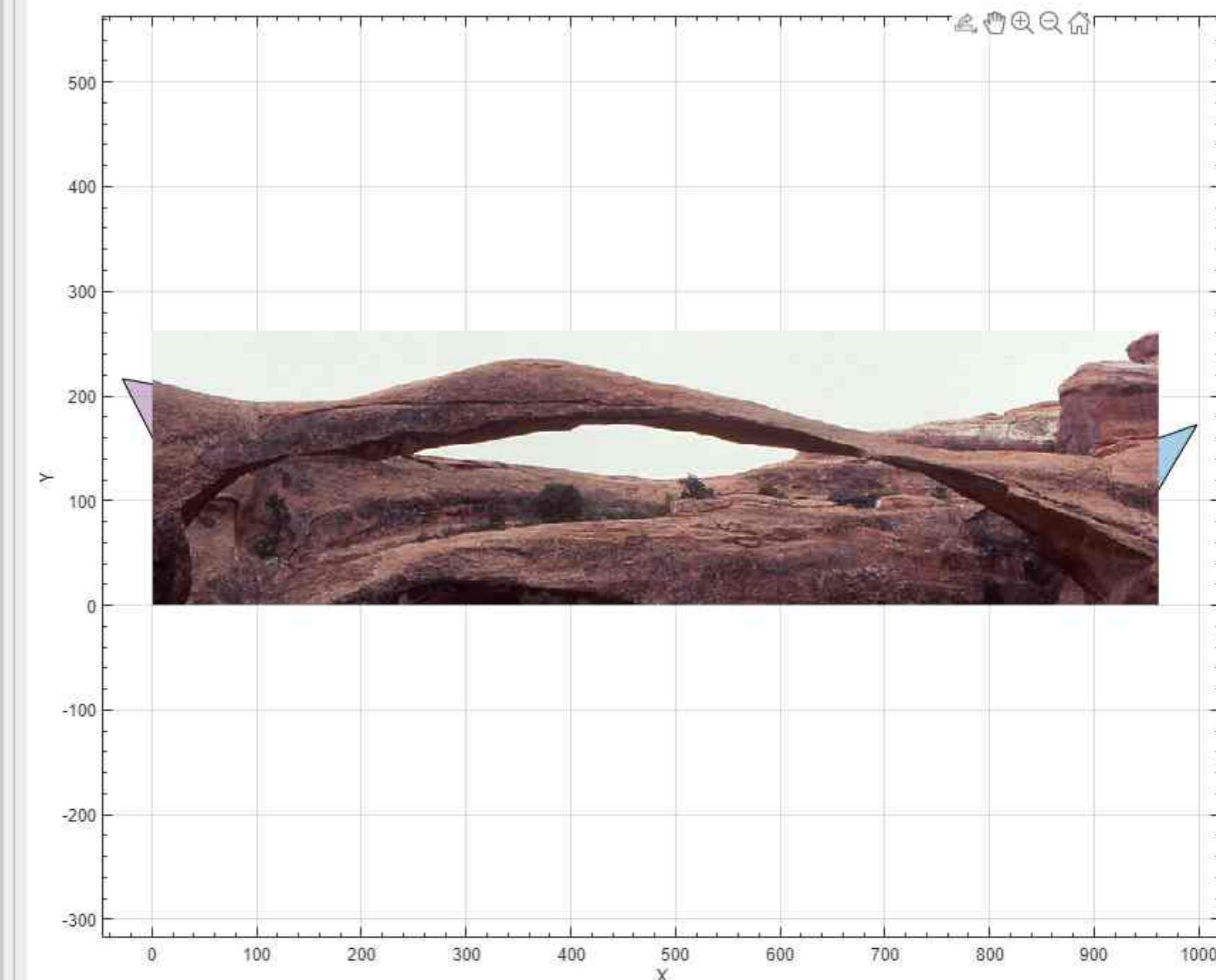
Load image Pick Reference L: 1

Flip X Interactive on off Target: 100

Flip Y scale factor: 1 Scale Image

Interactive Area

Reset View Pan Scroll Zoom on Scroll Zoom off Show Structural scale



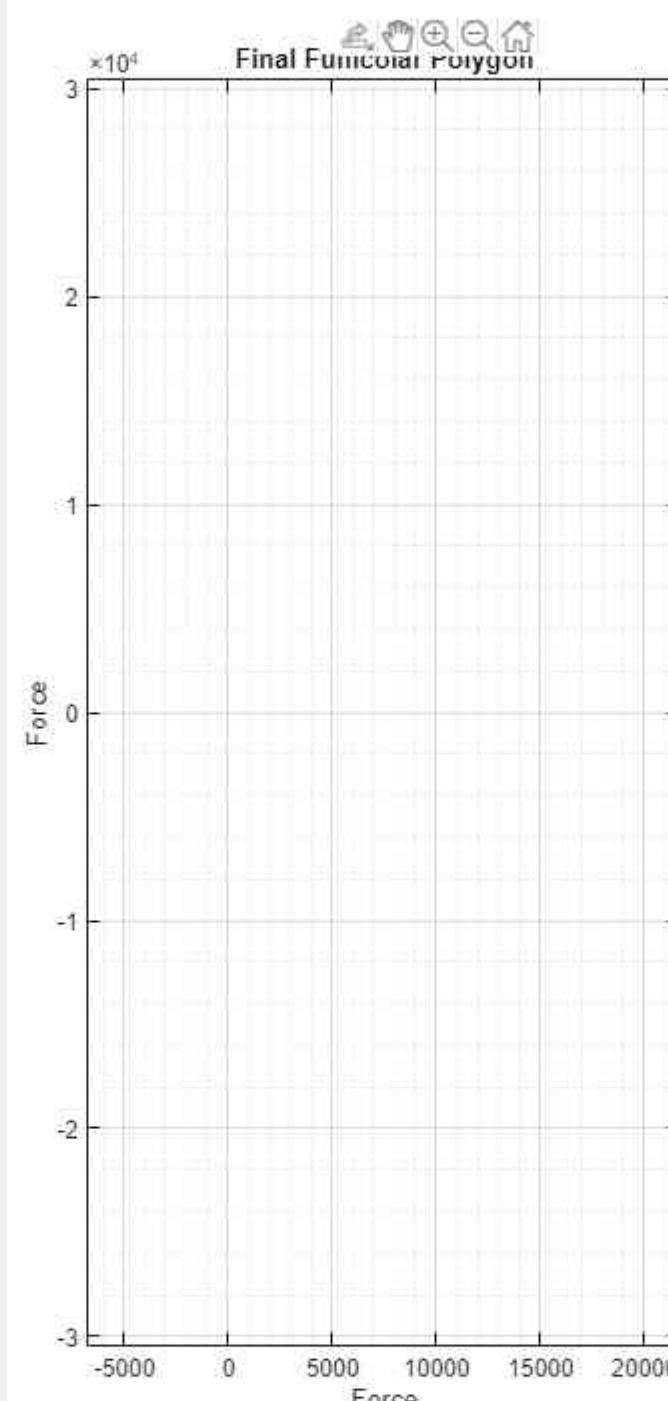
Current units: [mm] [tons] [N] [MPa]

Graphics Save/Load Example Blocks properties Units

Plot blocks Plot Forces Plot Reactions forces factor: 3 Force Magnitude Off On
 Plot Sketch Plot Background Image Flip Y axis alpha W: 0 Background Image Off On
 Clear Interactive Area Clear Sketch Sketched Geometry Off On
Text / Labels Off On

Force Polygon

Reset View Show Force Scale



Graphics Tab2

Force shrink factor: 0

Arch Definition Thrust Line Mechanism

Arch definition

by Blocks Circular by Sketch Lo >

Add rectangular block

Add irregular Block N. of points

Thickness

Block data

N.	Area	Weight	Xg
1	6.0294e+03	120.5889	930
2	4.3021e+03	86.0429	892
3	3.1257e+03	62.5145	857
4	2.2505e+03	45.0095	825
5	1.6523e+03	33.0455	791
6	1.1450e+03	22.8998	757
7	827.1138	16.5423	724
8	763.6198	15.2724	689
9	939.2885	18.7858	656
10	1.1240e+03	22.4798	622
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13	1.4024e+03	28.0487	521
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15	1.7222e+03	34.4443	452
16	2.1110e+03	42.2203	417
17	2.4604e+03	49.2085	382
18	2.6982e+03	53.9230	347
19	2.7406e+03	54.8113	313
20	2.6075e+03	52.1504	278
21	2.4810e+03	49.6195	244

 N:

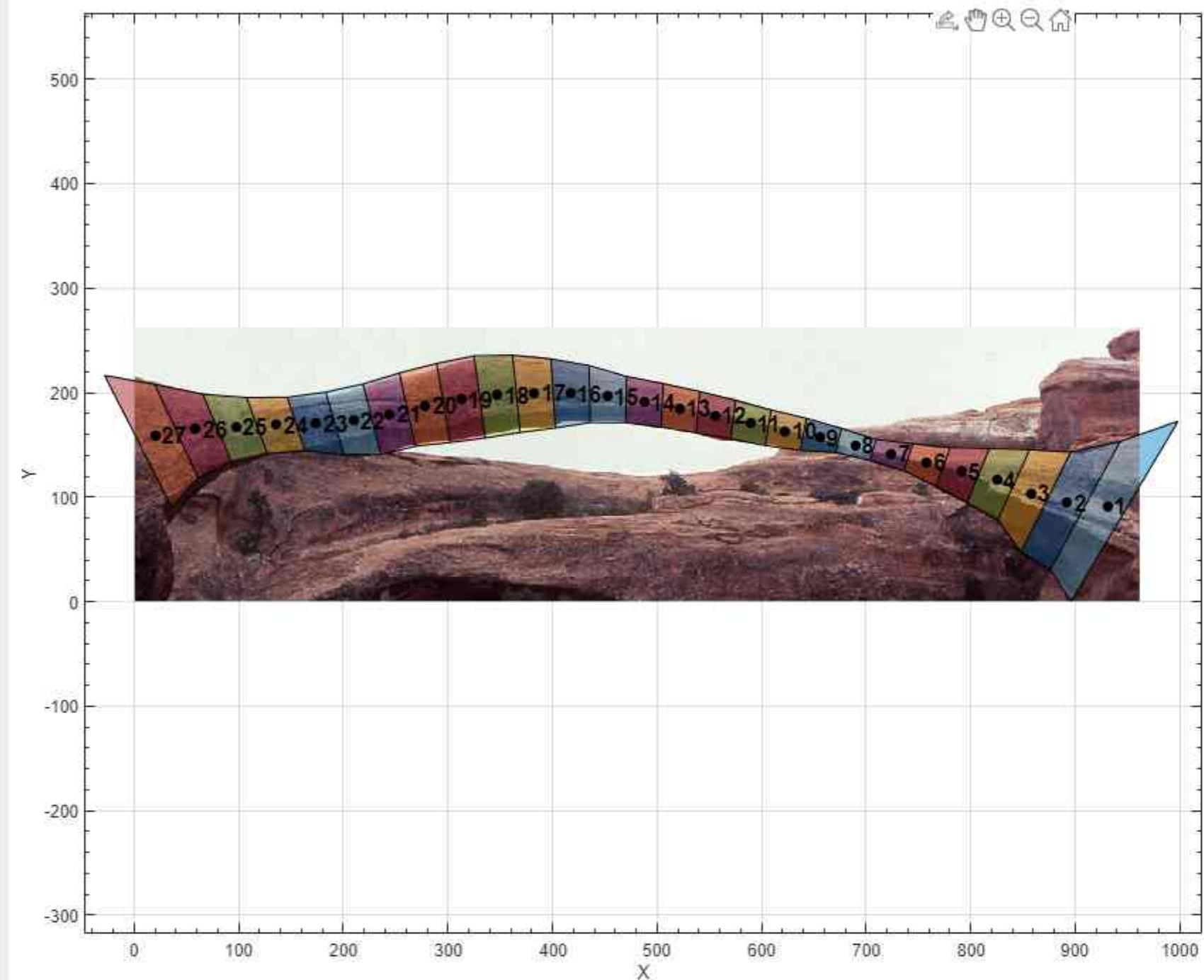
Background Image

 L:

 Interactive on off Target:

 scale factor:

Interactive Area



Current units: [mm] [tons] [N] [MPa]

Graphics

Save/Load Example

Blocks properties

Units

forces factor:

Force Magnitude Off On

alpha W:

Background Image Off On

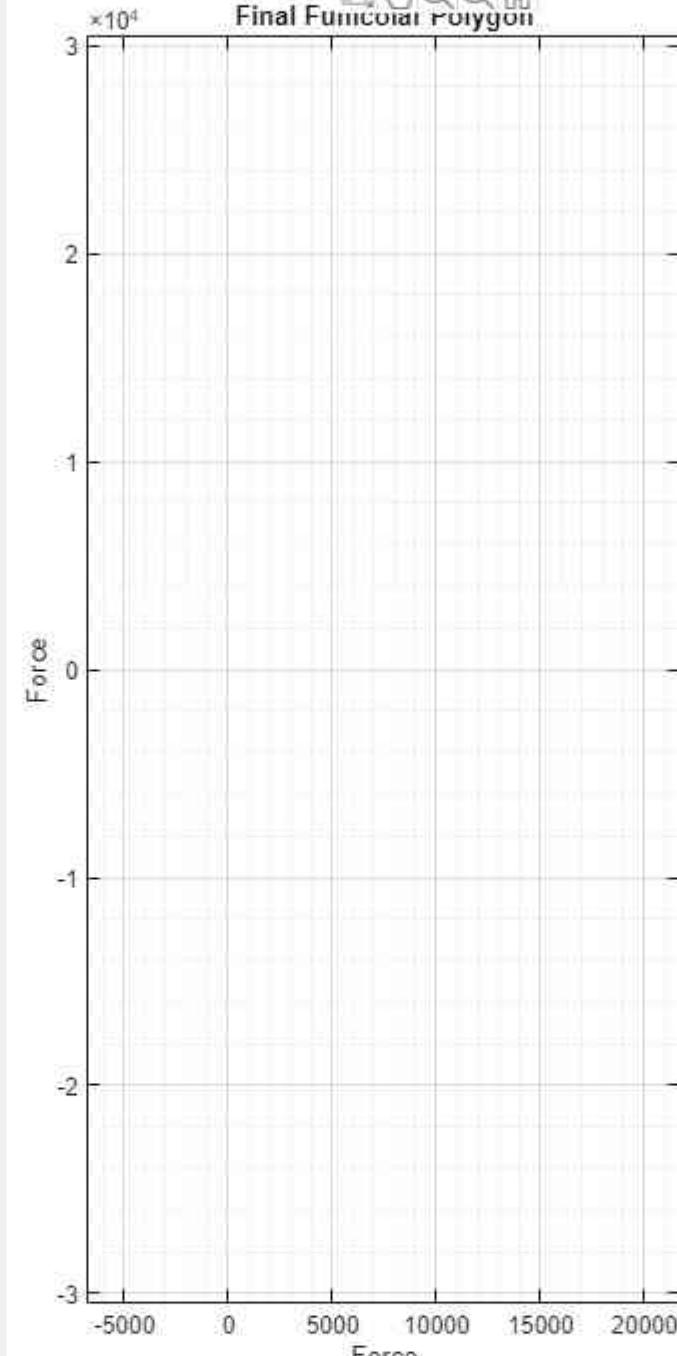
Sketched Geometry Off On

Text / Labels Off On

Force Polygon



Final Funicular Polygon



Graphics

Tab2

Force shrink factor:

Arch Definition Thrust Line Mechanism

Arch definition

by Blocks Circular by Sketch Lo >

Add rectangular block

Add irregular Block N. of points

Thickness

Block data

N.	Area	Weight	Xg
1	6.0294e+03	120.5889	930
2	4.3021e+03	86.0429	892
3	3.1257e+03	62.5145	857
4	2.2505e+03	45.0095	825
5	1.6523e+03	33.0455	791
6	1.1450e+03	22.8998	751
7	827.1138	16.5423	724
8	763.6198	15.2724	689
9	939.2885	18.7858	656
10	1.1240e+03	22.4798	622
11	1.2240e+03	24.4806	589
12	1.3187e+03	26.3740	556
13	1.4024e+03	28.0487	521
14	1.4680e+03	29.7597	487
15	1.7222e+03	34.4443	452
16	2.1110e+03	42.2203	417
17	2.4604e+03	49.2085	382
18	2.6982e+03	53.9230	347
19	2.7406e+03	54.8113	313
20	2.6075e+03	52.1504	278
21	2.4810e+03	49.6195	244

N:

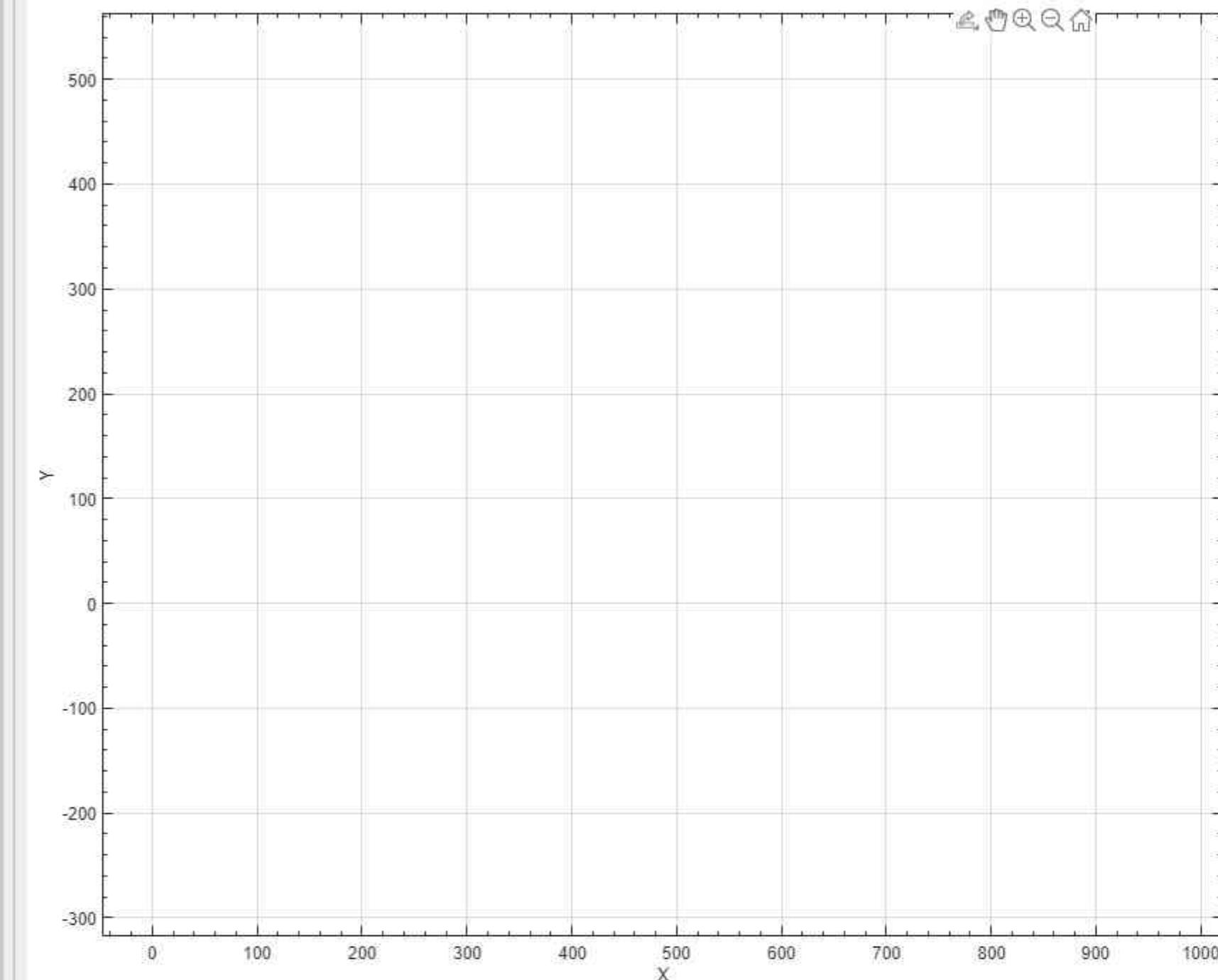
Background Image

L:

Interactive on off Target:

scale factor: Scale Image

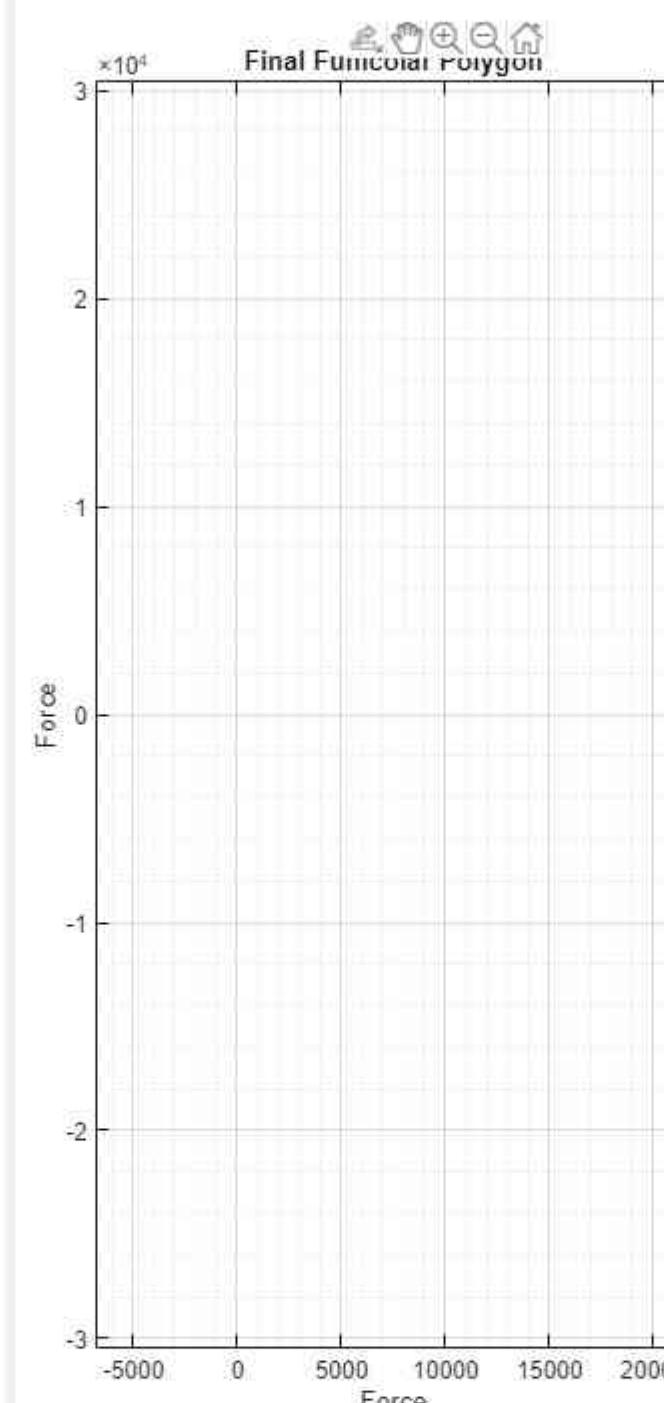
Interactive Area



Current units: [mm] [tons] [N] [MPa]

forces factor: Force Magnitude Off On
 alpha W: Background Image Off On
 Sketched Geometry Off On
Text / Labels Off On

Force Polygon



Force shrink factor:

Arch Definition Thrust Line Mechanism

Arch definition

by Blocks Circular by Sketch Lo >

Add rectangular block

Add irregular Block N. of points

Thickness

Block data

N.	Area	Weight	Xg
1	6.0294e+03	120.5889	930
2	4.3021e+03	86.0429	892
3	3.1257e+03	62.5145	857
4	2.2505e+03	45.0095	825
5	1.6523e+03	33.0455	791
6	1.1450e+03	22.8998	751
7	827.1138	16.5423	724
8	763.6198	15.2724	689
9	939.2885	18.7858	656
10	1.1240e+03	22.4798	622
11	1.2240e+03	24.4806	589
12	1.3187e+03	26.3740	556
13	1.4024e+03	28.0487	521
14	1.4680e+03	29.7597	487
15	1.7222e+03	34.4443	452
16	2.1110e+03	42.2203	417
17	2.4604e+03	49.2085	382
18	2.6982e+03	53.9230	347
19	2.7406e+03	54.8113	313
20	2.6075e+03	52.1504	278
21	2.4810e+03	49.6195	244

 N:

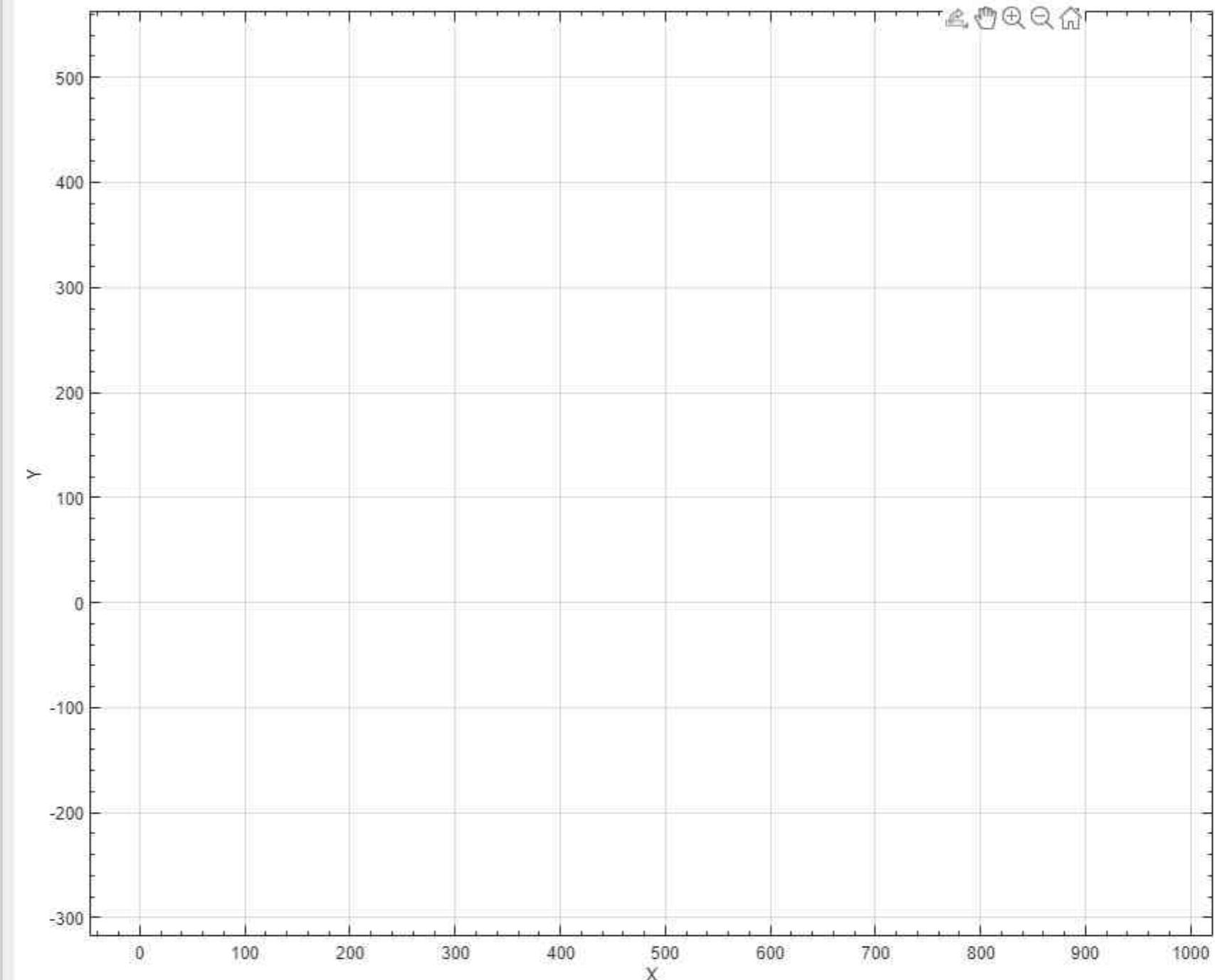
Background Image

 L:

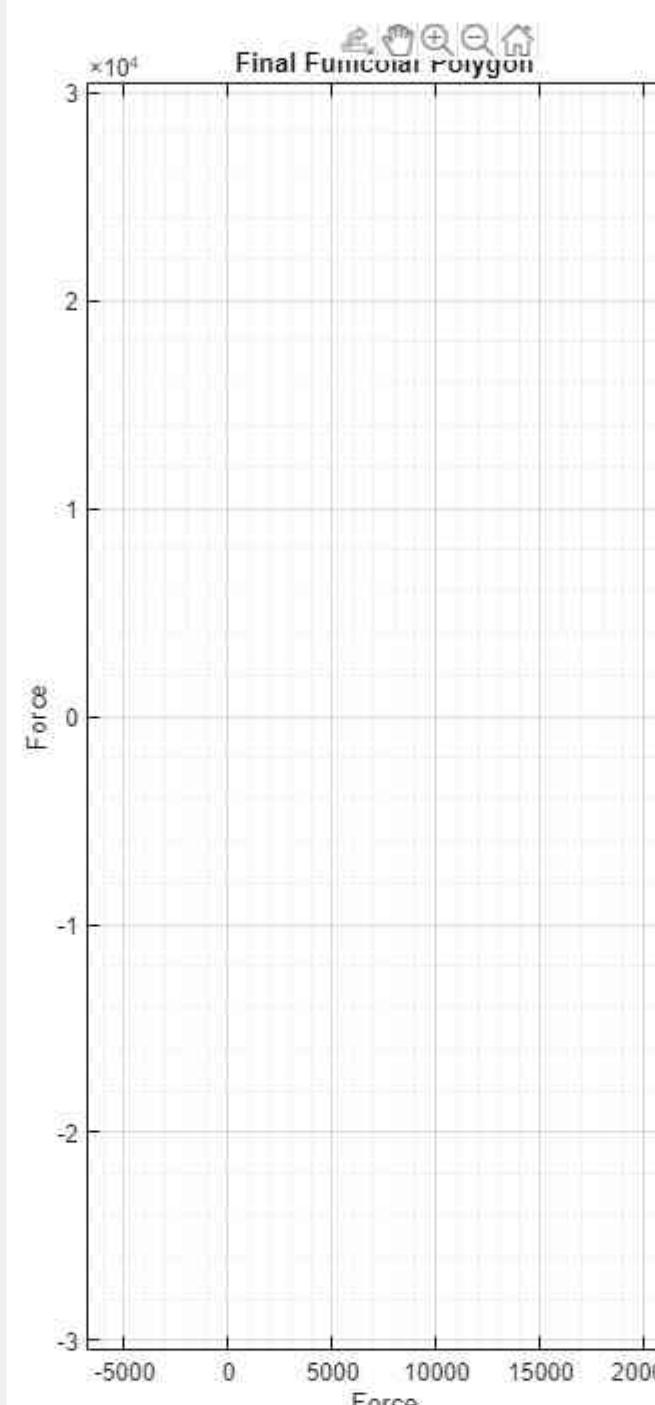
 Interactive on off Target:

 scale factor:

Interactive Area



Force Polygon



Current units: [mm] [tons] [N] [MPa]

 forces factor: Force Magnitude Off: On

 alpha W: Background Image Off: On

 Sketched Geometry Off: On

Text / Labels Off: On

Force shrink factor:

Arch Definition Thrust Line Mechanism

Arch definition

by Blocks Circular by Sketch Lo >

Add rectangular block

Add irregular Block N. of points 6

Thickness 0

Block data

N.	Area	Weight	Xg
1	6.0294e+03	120.5889	930
2	4.3021e+03	86.0429	892
3	3.1257e+03	62.5145	857
4	2.2505e+03	45.0095	825
5	1.6523e+03	33.0455	791
6	1.1450e+03	22.8998	751
7	827.1138	16.5423	724
8	763.6198	15.2724	689
9	939.2885	18.7858	656
10	1.1240e+03	22.4798	622
11	1.2240e+03	24.4806	589
12	1.3187e+03	26.3740	556
13	1.4024e+03	28.0487	521
14	1.4680e+03	29.7597	487
15	1.7222e+03	34.4443	452
16	2.1110e+03	42.2203	417
17	2.4604e+03	49.2085	382
18	2.6982e+03	53.9230	341
19	2.7406e+03	54.8113	313
20	2.6075e+03	52.1504	278
21	2.4810e+03	49.6195	244

View data Edit data

Delete all Delete by N. N: 1

Background Image

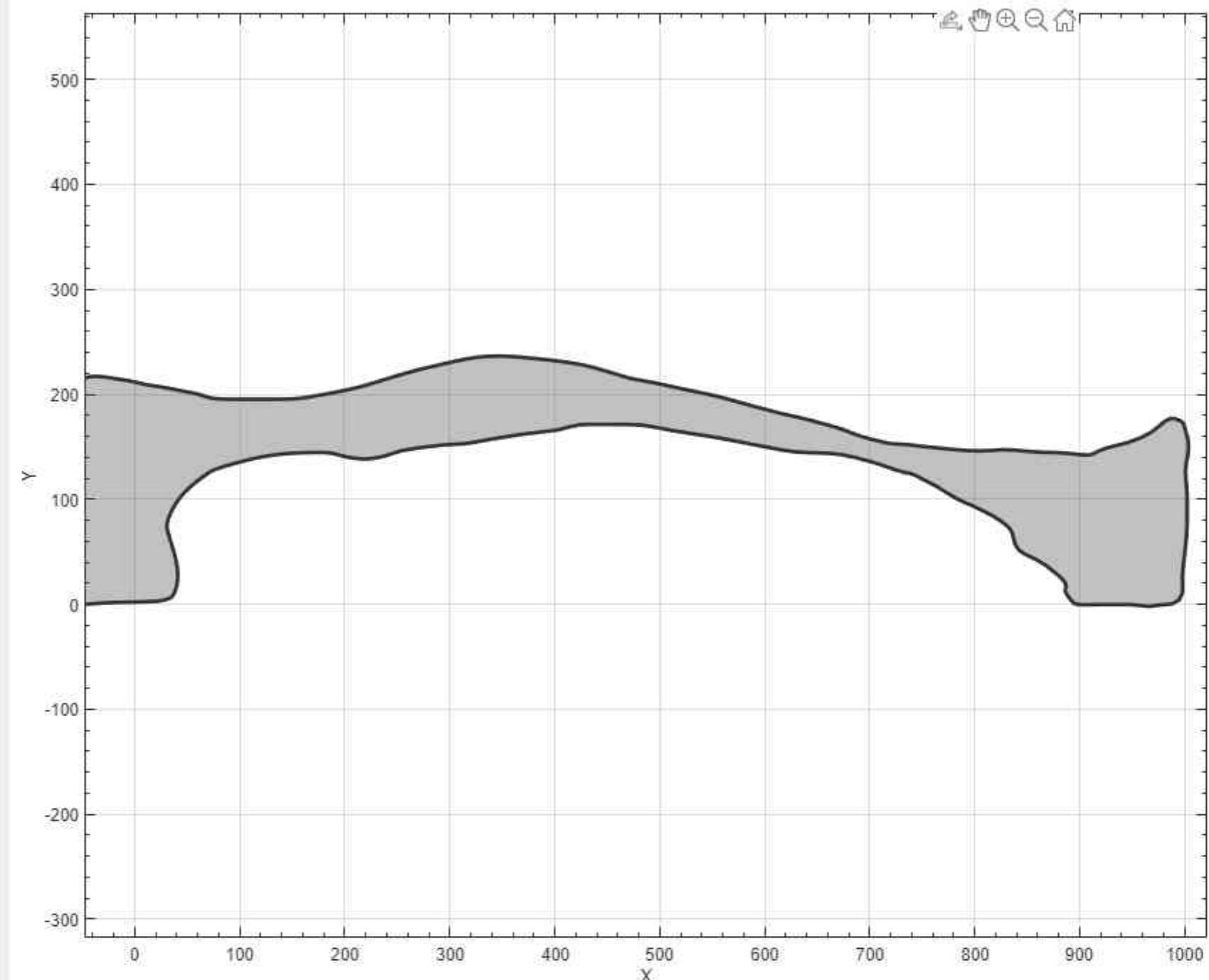
Load image Pick Reference L: 1

Flip X Interactive on off Target: 100

Flip Y scale factor: 1 Scale Image

Interactive Area

Reset View Pan Scroll Zoom on Scroll Zoom off Show Structural scale



Current units: [mm] [tons] [N] [MPa]

Graphics Save/Load Example Blocks properties Units

Plot blocks Plot Forces Plot Reactions forces factor: 3 Force Magnitude Off On

Plot Sketch Plot Background Image Flip Y axis alpha W: 0 Background Image Off On

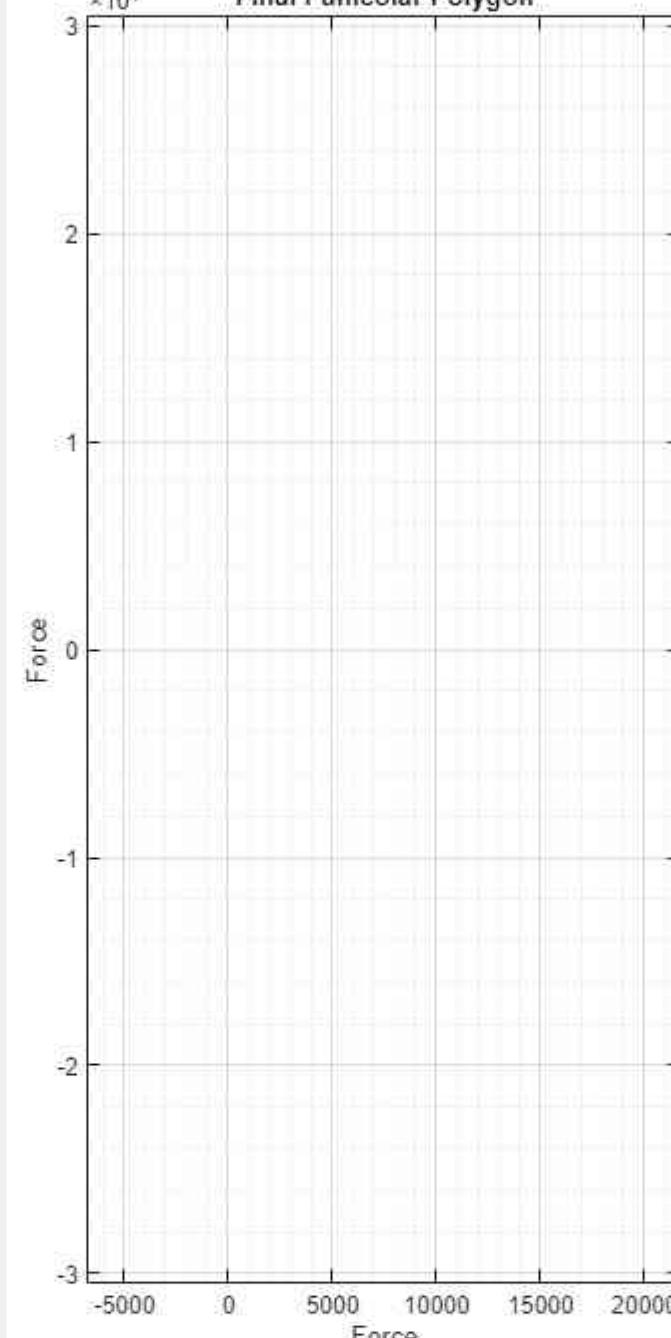
Clear Interactive Area Clear Sketch Sketched Geometry Off On

Text / Labels Off On

Force Polygon

Reset View Show Force Scale

Final Funicular Polygon $\times 10^4$



Graphics Tab2

Force shrink factor: 0

Arch Definition Thrust Line Mechanism

Arch definition

by Blocks Circular by Sketch Lo >

Add rectangular block

Add irregular Block N. of points 6

Thickness 0

Block data

N.	Area	Weight	Xg
1	6.0294e+03	120.5889	930
2	4.3021e+03	86.0429	892
3	3.1257e+03	62.5145	857
4	2.2505e+03	45.0095	825
5	1.6523e+03	33.0455	791
6	1.1450e+03	22.8998	757
7	827.1138	16.5423	724
8	763.6198	15.2724	689
9	939.2885	18.7858	656
10	1.1240e+03	22.4798	622
11	1.2240e+03	24.4806	589
12	1.3187e+03	26.3740	556
13	1.4024e+03	28.0487	521
14	1.4680e+03	29.7597	487
15	1.7222e+03	34.4443	452
16	2.1110e+03	42.2203	417
17	2.4604e+03	49.2085	382
18	2.6982e+03	53.9230	347
19	2.7406e+03	54.8113	313
20	2.8075e+03	52.1504	278
21	2.4810e+03	49.6195	244

View data Edit data

Delete all Delete by N. N: 1

Background Image

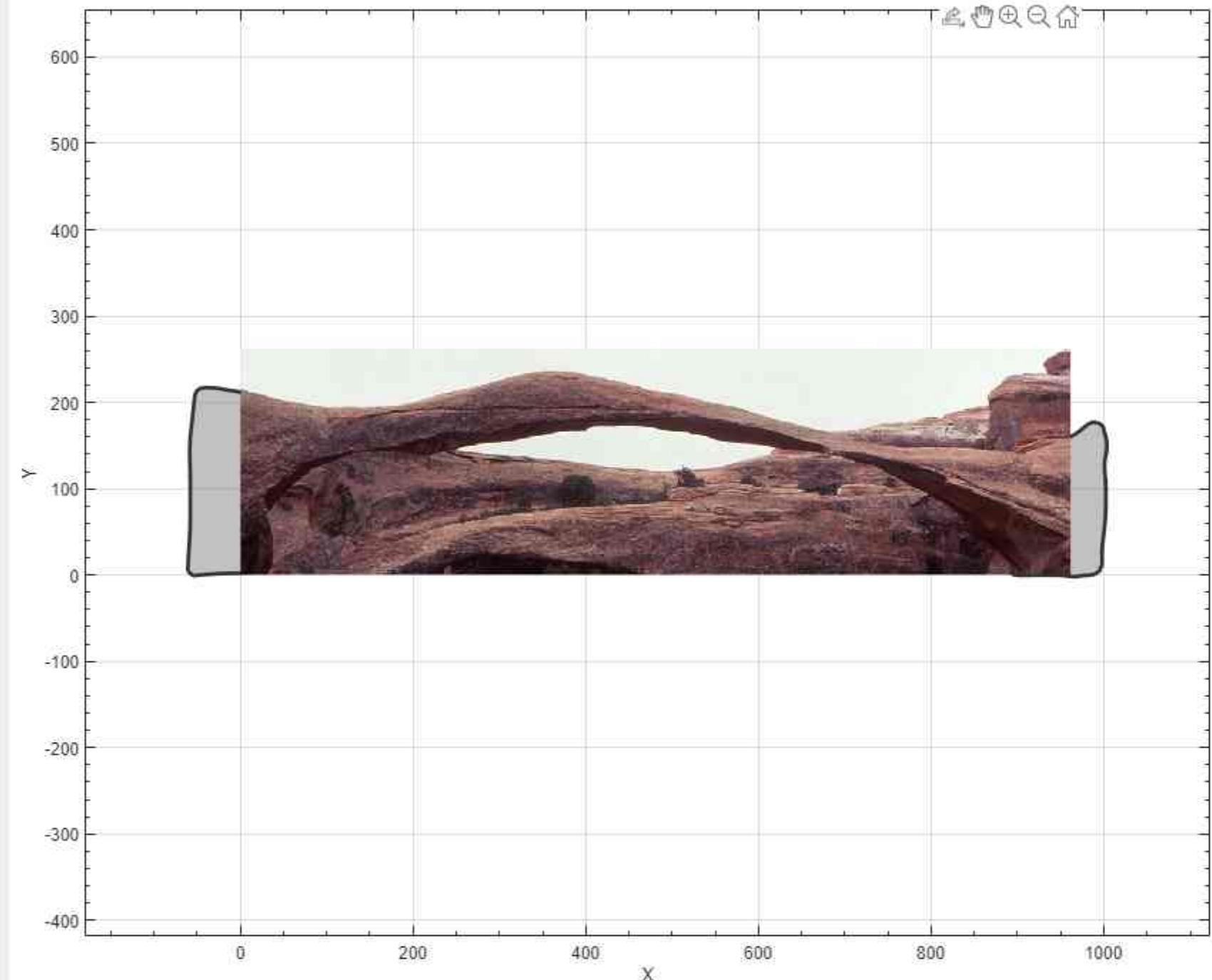
Load image Pick Reference L: 1

Flip X Interactive on off Target: 100

Flip Y scale factor: 1 Scale Image

Interactive Area

Reset View Pan Scroll Zoom on Scroll Zoom off Show Structural scale



Current units: [mm] [tons] [N] [MPa]

Graphics Save/Load Example Blocks properties Units

Plot blocks Plot Forces Plot Reactions forces factor: 3 Force Magnitude Off On

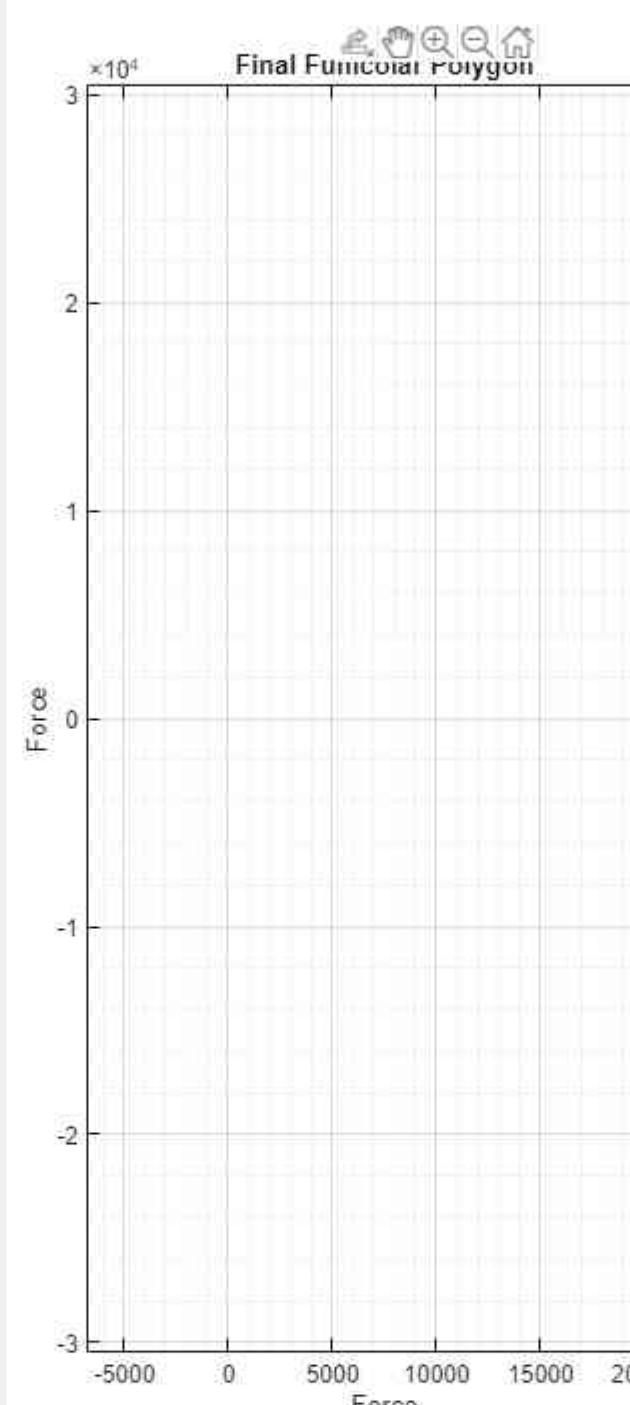
Plot Sketch Plot Background Image Flip Y axis alpha W: 0 Background Image Off On

Clear Interactive Area Clear Sketch Sketched Geometry Off On

Text / Labels Off On

Force Polygon

Reset View Show Force Scale



Graphics Tab2

Force shrink factor: 0

Arch Definition Thrust Line Mechanism

Arch definition

by Blocks Circular by Sketch Lo >

Add rectangular block

Add irregular Block N. of points

Thickness

Block data

N.	Area	Weight	Xg
1	6.0294e+03	120.5889	930
2	4.3021e+03	86.0429	892
3	3.1257e+03	62.5145	857
4	2.2505e+03	45.0095	825
5	1.6523e+03	33.0455	791
6	1.1450e+03	22.8998	757
7	827.1138	16.5423	724
8	763.6198	15.2724	689
9	939.2885	18.7858	656
10	1.1240e+03	22.4798	622
11	1.2240e+03	24.4806	589
12	1.3187e+03	26.3740	556
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15	1.7222e+03	34.4443	452
16	2.1110e+03	42.2203	417
17	2.4604e+03	49.2085	382
18	2.6982e+03	53.9230	347
19	2.7406e+03	54.8113	313
20	2.6075e+03	52.1504	278
21	2.4810e+03	49.6195	244

View data Edit data

Delete all Delete by N. N:

Background Image

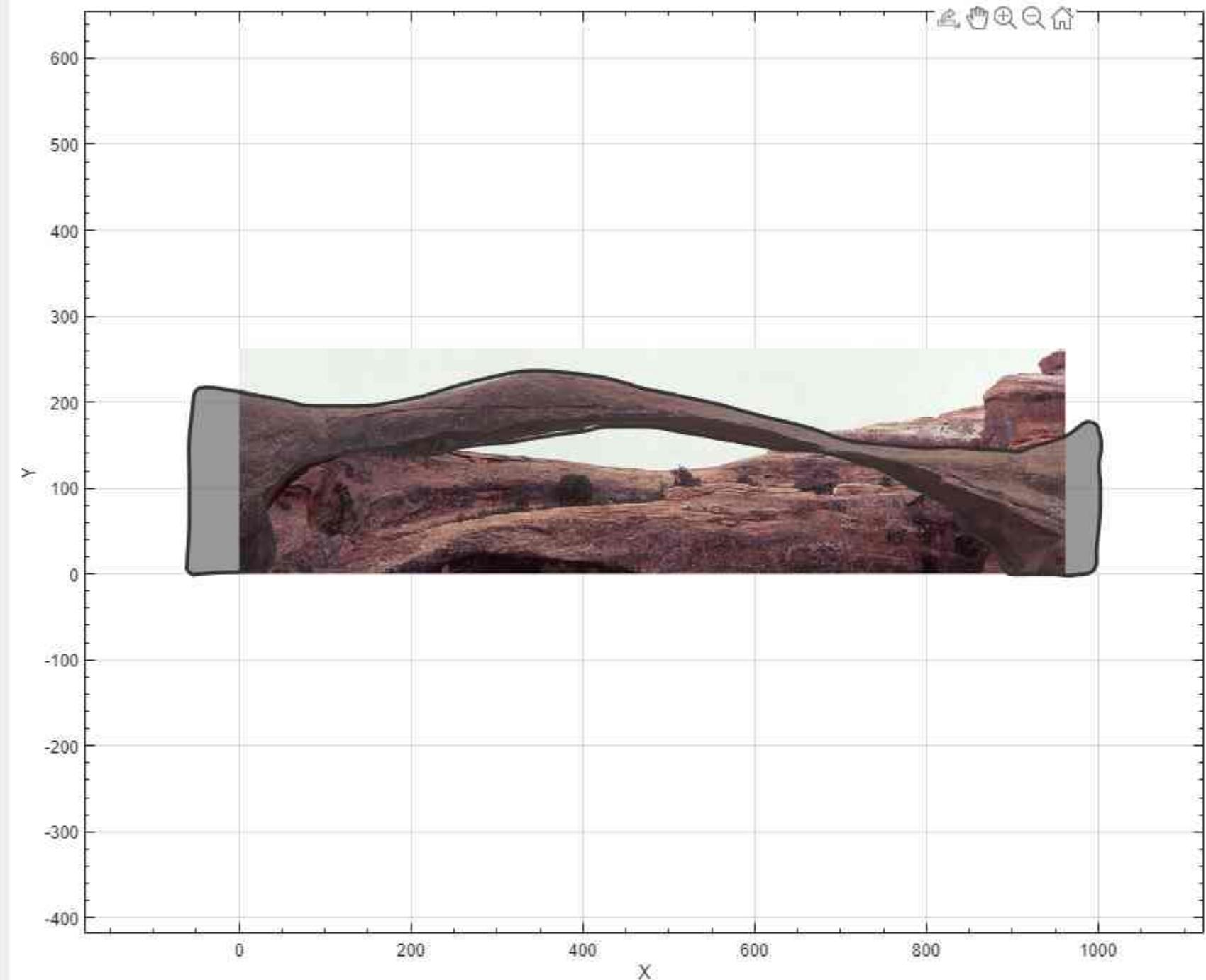
Load image Pick Reference L:

Flip X Interactive on off Target:

Flip Y scale factor: Scale Image

Interactive Area

Reset View Pan Scroll Zoom on Scroll Zoom off Show Structural scale



Current units: [mm] [tons] [N] [MPa]

Graphics Save/Load Example Blocks properties Units

Plot blocks Plot Forces Plot Reactions forces factor: Force Magnitude Off On

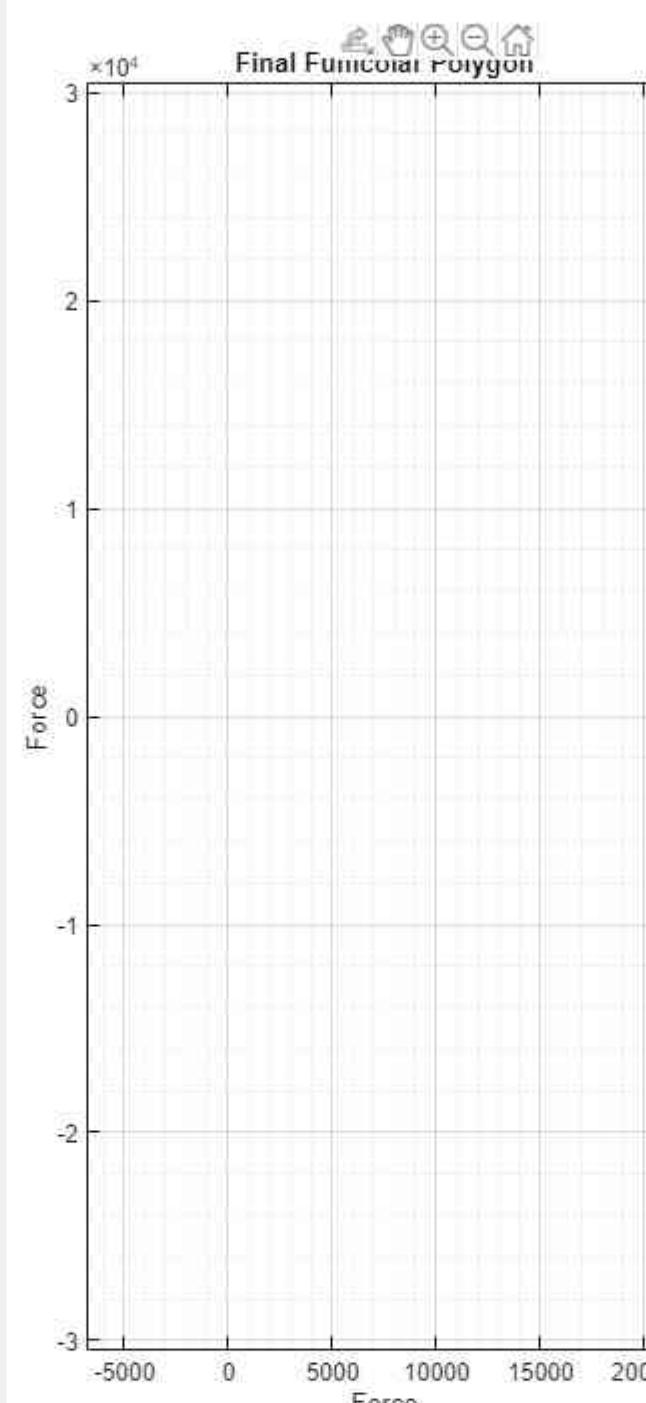
Plot Sketch Plot Background Image Flip Y axis alpha W: Background Image Off On

Clear Interactive Area Clear Sketch Sketched Geometry Off On

Text / Labels Off On

Force Polygon

Reset View Show Force Scale



Graphics Tab2

Force shrink factor:

Arch Definition Thrust Line Mechanism

Arch definition

by Blocks Circular by Sketch Lo >

Add rectangular block

Add irregular Block N. of points

Thickness

Block data

N.	Area	Weight	Xg
1	6.0294e+03	120.5889	930
2	4.3021e+03	86.0429	892
3	3.1257e+03	62.5145	857
4	2.2505e+03	45.0095	825
5	1.6523e+03	33.0455	791
6	1.1450e+03	22.8998	757
7	827.1138	16.5423	724
8	763.6198	15.2724	689
9	939.2885	18.7858	656
10	1.1240e+03	22.4798	622
11	1.2240e+03	24.4806	589
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15	1.7222e+03	34.4443	452
16	2.1110e+03	42.2203	417
17	2.4604e+03	49.2085	382
18	2.6982e+03	53.9230	347
19	2.7406e+03	54.8113	313
20	2.8075e+03	52.1504	278
21	2.4810e+03	49.6195	244

 N:

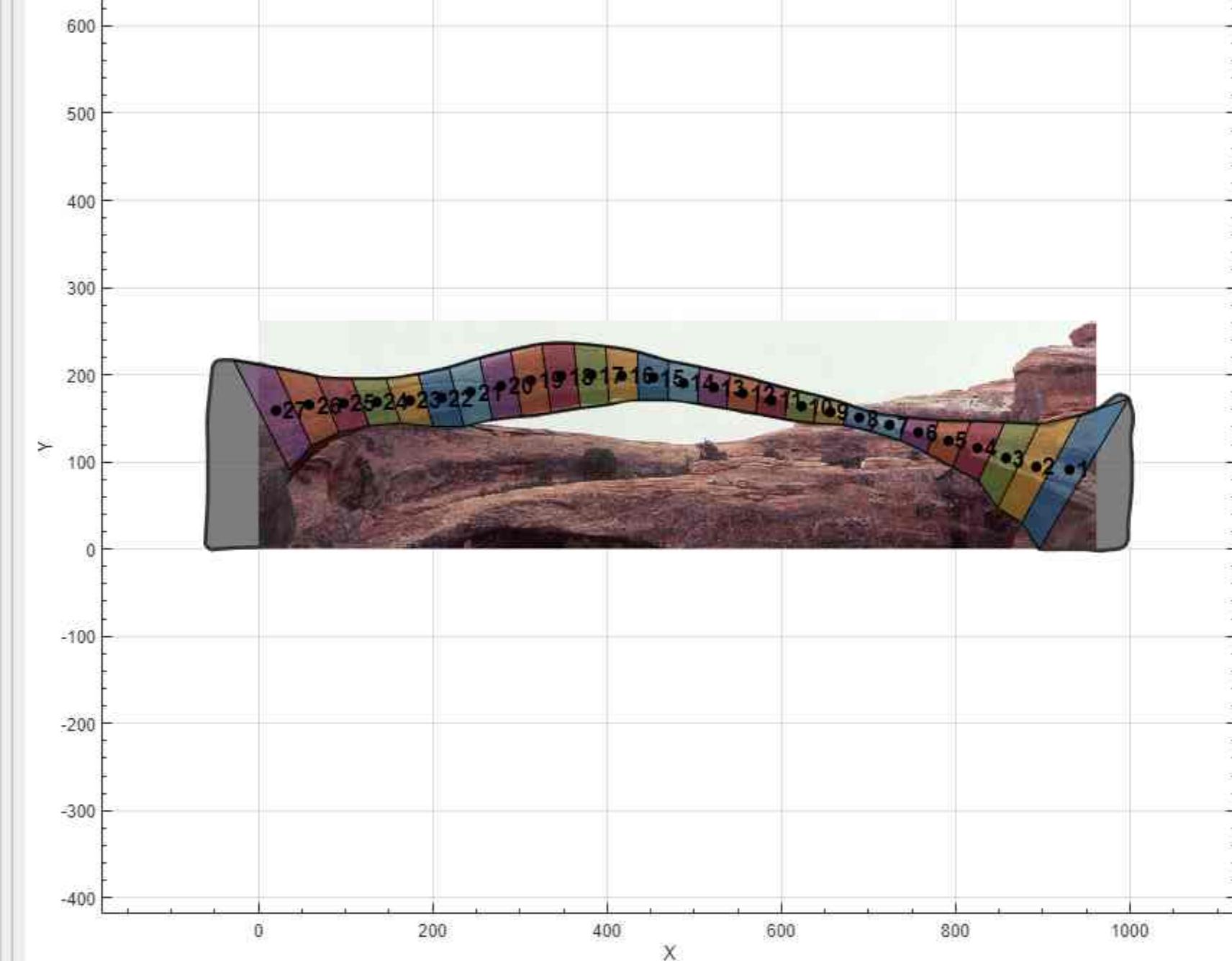
Background Image

 L:

 Interactive on off Target:

 scale factor:

Interactive Area



Current units: [mm] [tons] [N] [MPa]

Graphics

Save/Load Example

Blocks properties

Units

forces factor:

Force Magnitude Off On

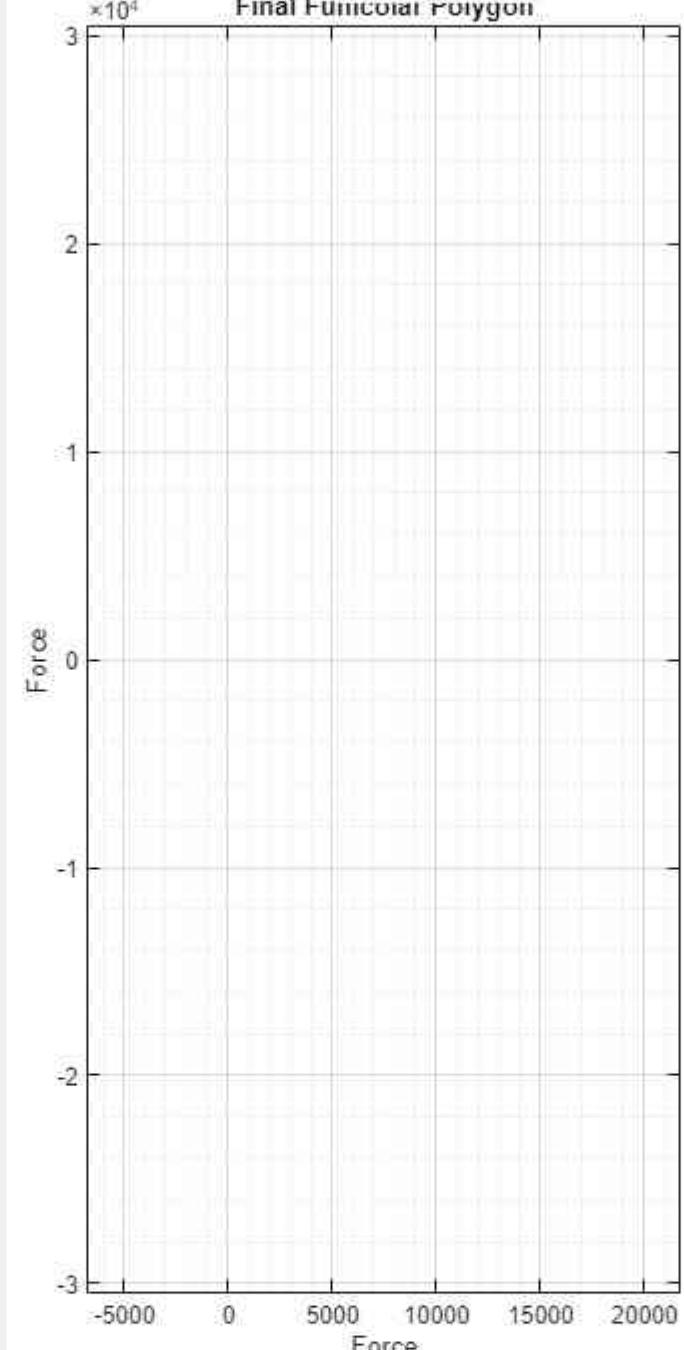
alpha W:

Background Image Off On

Sketched Geometry Off On

Text / Labels Off On

Force Polygon



Graphics

Tab2

Force shrink factor:

Arch Definition Thrust Line Mechanism

Arch definition

by Blocks Circular by Sketch Lo >

Add rectangular block

Add irregular Block N. of points

Thickness

Block data

N.	Area	Weight	Xg
1	6.0294e+03	120.5889	930
2	4.3021e+03	86.0429	892
3	3.1257e+03	62.5145	857
4	2.2505e+03	45.0095	825
5	1.6523e+03	33.0455	791
6	1.1450e+03	22.8998	751
7	827.1138	16.5423	724
8	763.6198	15.2724	689
9	939.2885	18.7858	656
10	1.1240e+03	22.4798	622
11	1.2240e+03	24.4806	589
12	1.3187e+03	26.3740	556
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15	1.7222e+03	34.4443	452
16	2.1110e+03	42.2203	417
17	2.4604e+03	49.2085	382
18	2.6982e+03	53.9230	341
19	2.7406e+03	54.8113	313
20	2.6075e+03	52.1504	278
21	2.4810e+03	49.6195	244

View data Edit data

Delete all Delete by N. N:

Background Image

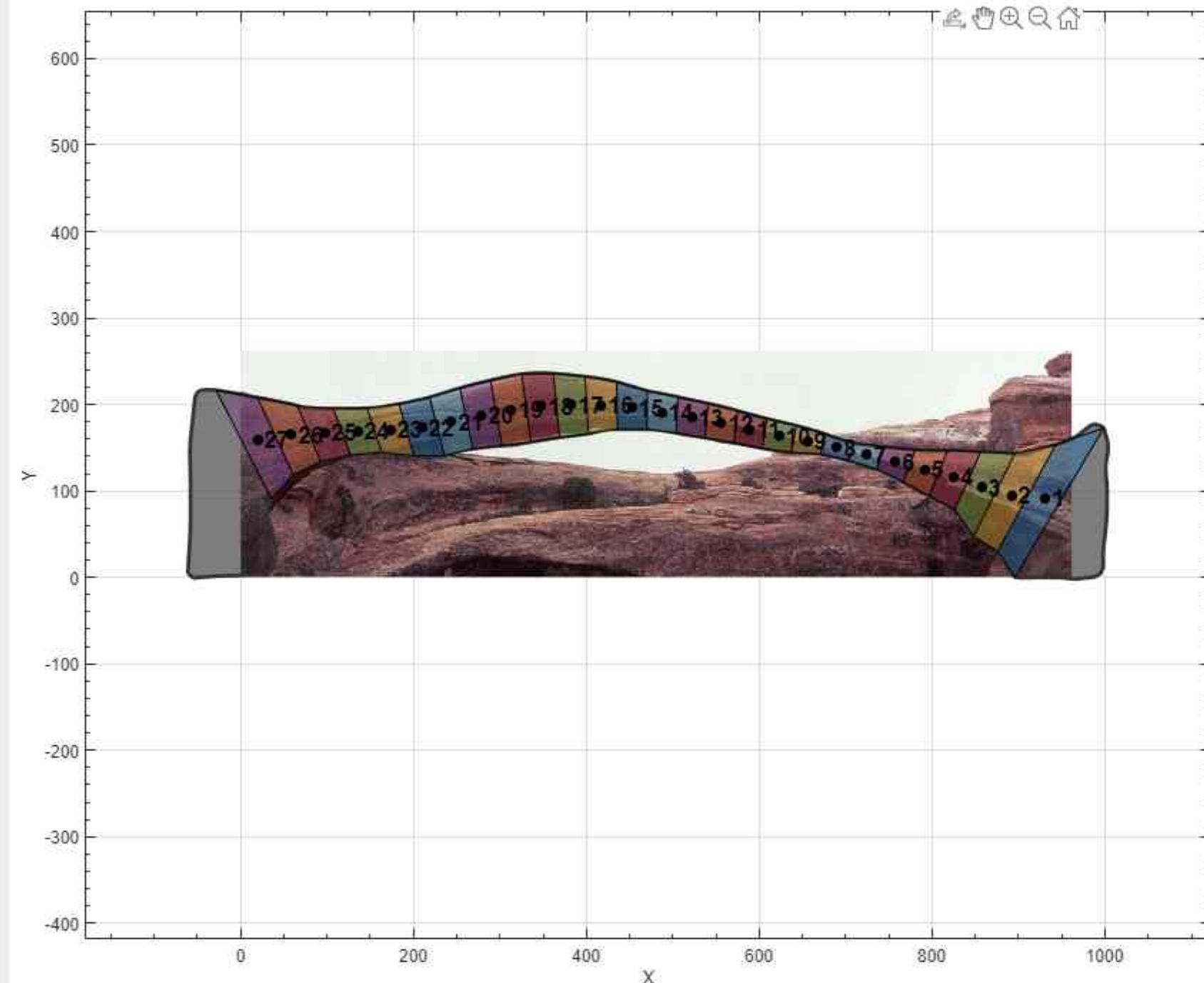
Load image Pick Reference L:

Flip X Interactive on off Target:

Flip Y scale factor: Scale Image

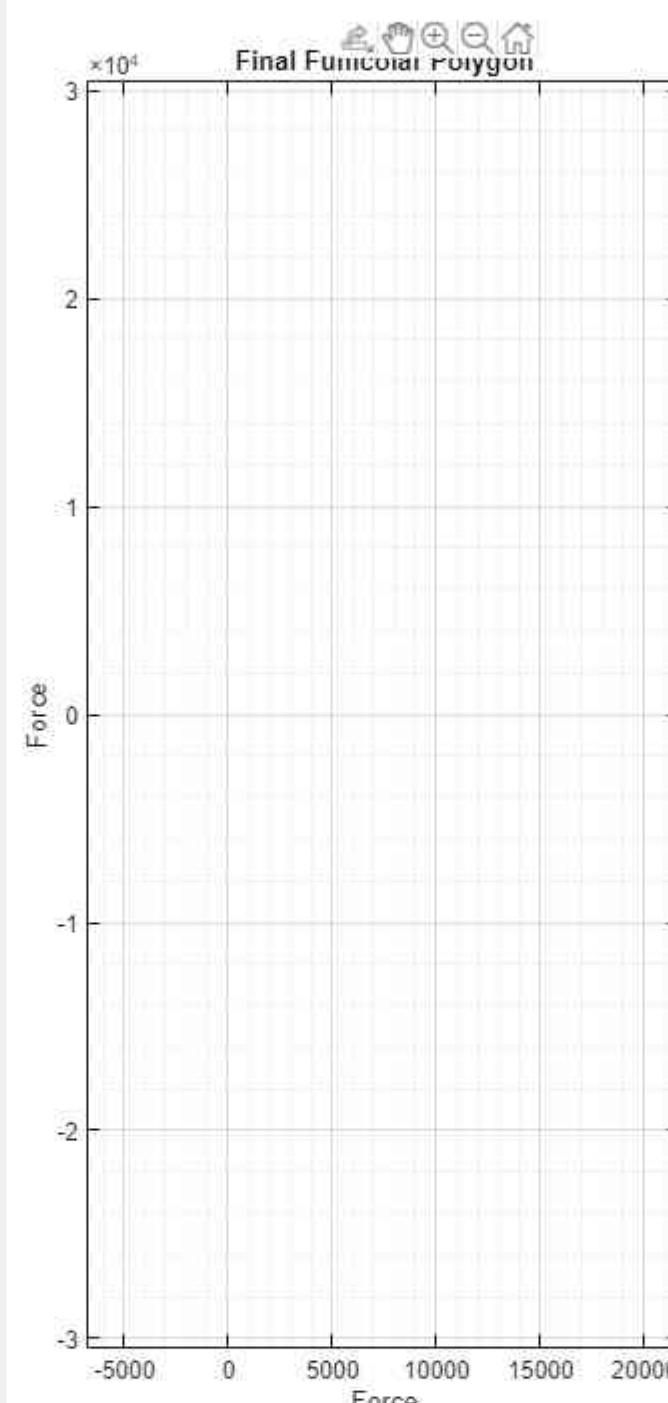
Interactive Area

Reset View Pan Scroll Zoom on Scroll Zoom off Show Structural scale



Force Polygon

Reset View Show Force Scale



Current units: [mm] [tons] [N] [MPa]

Graphics Save/Load Example Blocks properties Units

Block Thickness: Specific Weight:

Graphics Tab2

Force shrink factor:

Arch Definition Thrust Line Mechanism

Arch definition

by Blocks Circular by Sketch Lo >

Add rectangular block

Add irregular Block N. of points

Thickness

Block data

N.	Area	Weight	Xg
1	6.0294e+03	120.5889	930
2	4.3021e+03	86.0429	892
3	3.1257e+03	62.5145	857
4	2.2505e+03	45.0095	825
5	1.6523e+03	33.0455	791
6	1.1450e+03	22.8998	751
7	827.1138	16.5423	724
8	763.6198	15.2724	689
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10	1.1240e+03	22.4798	622
11	1.2240e+03	24.4806	589
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15	1.7222e+03	34.4443	452
16	2.1110e+03	42.2203	417
17	2.4604e+03	49.2085	382
18	2.6982e+03	53.9230	341
19	2.7406e+03	54.8113	313
20	2.6075e+03	52.1504	278
21	2.4810e+03	49.6195	244

View data Edit data

Delete all Delete by N. N:

Background Image

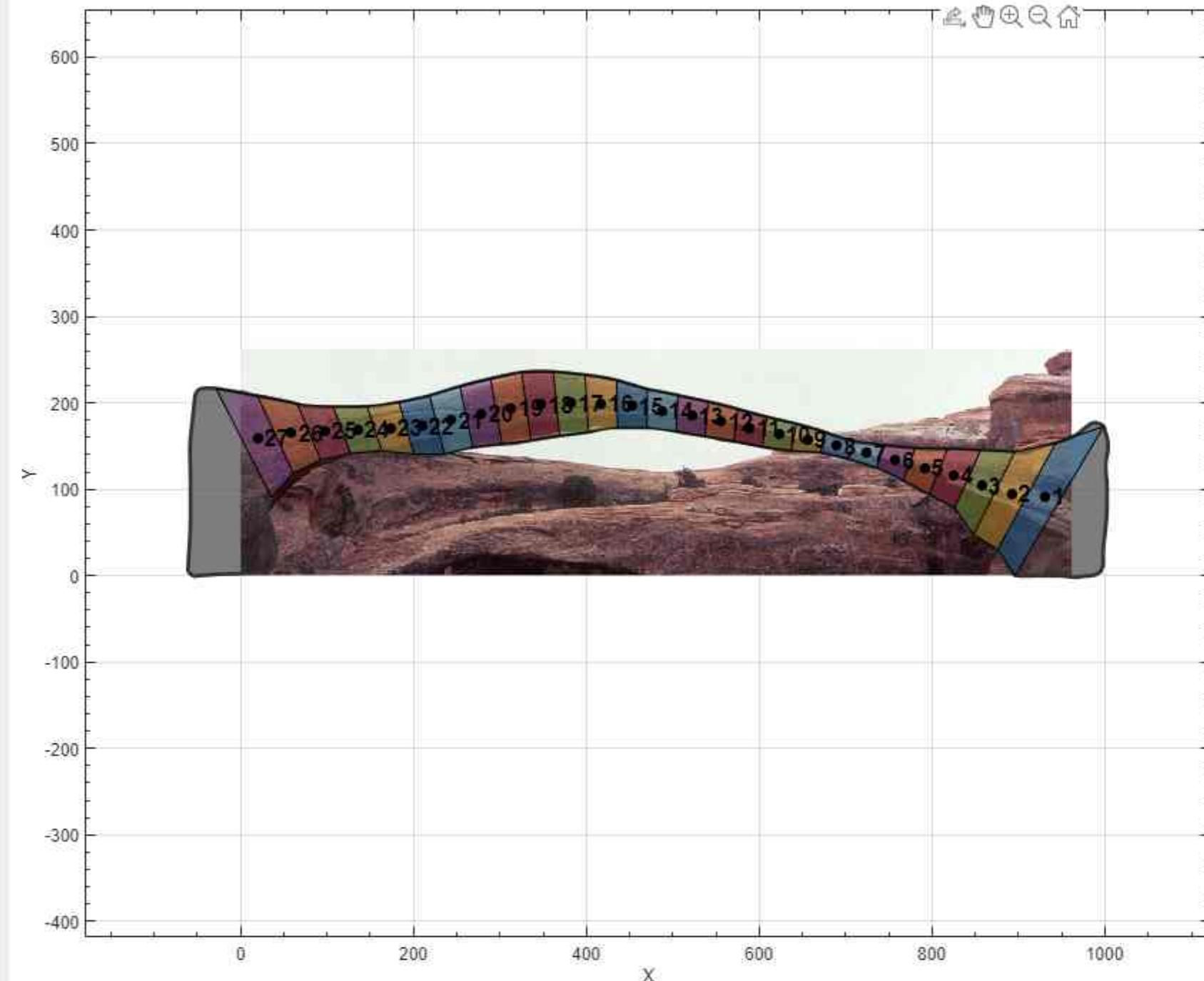
Load image Pick Reference L:

Flip X Interactive on off Target:

Flip Y scale factor: Scale Image

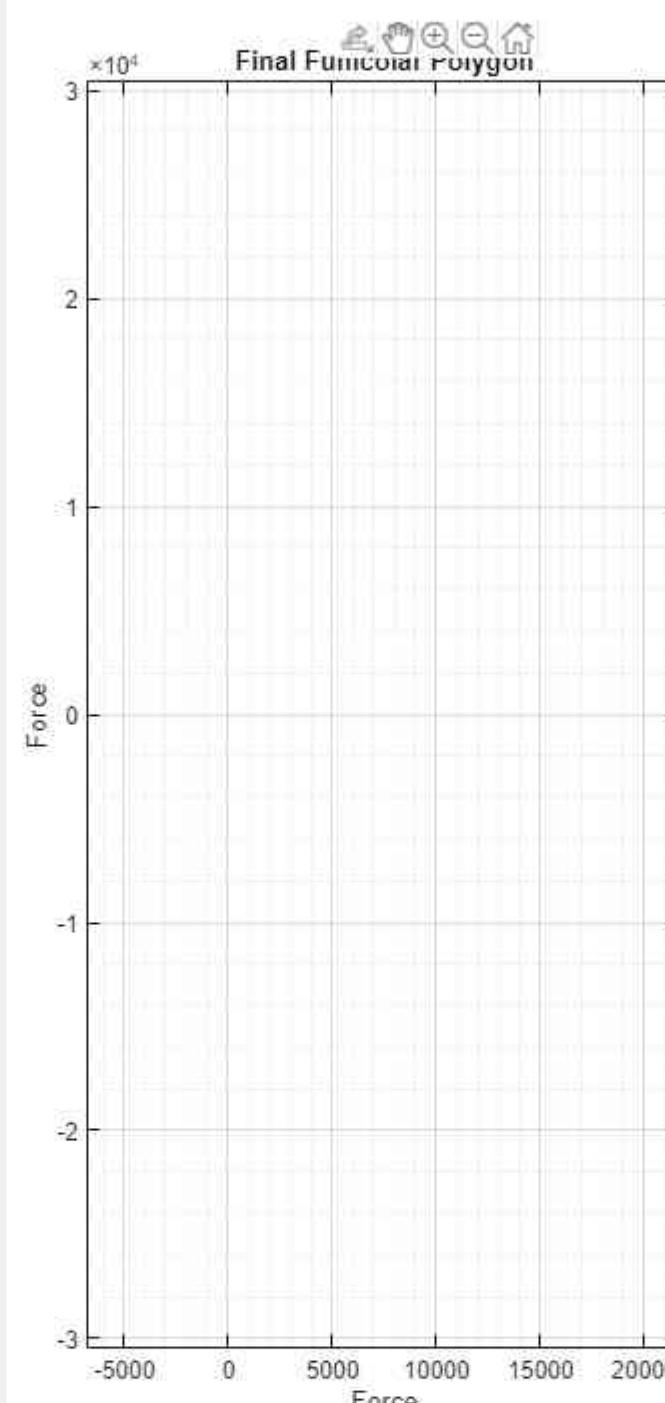
Interactive Area

Reset View Pan Scroll Zoom on Scroll Zoom off Show Structural scale



Force Polygon

Reset View Show Force Scale



Current units: [mm] [tons] [N] [MPa]

Graphics Save/Load Example Blocks properties Units

Block Thickness: Specific Weight:

Graphics Tab2

Force shrink factor:

Arch Definition Thrust Line Mechanism

Arch definition

by Blocks Circular by Sketch Lo >

Add rectangular block

Add irregular Block N. of points

Thickness

Block data

N.	Area	Weight	Xg
1	6.0294e+03	120.5889	930
2	4.3021e+03	86.0429	892
3	3.1257e+03	62.5145	857
4	2.2505e+03	45.0095	825
5	1.6523e+03	33.0455	791
6	1.1450e+03	22.8998	757
7	827.1138	16.5423	724
8	763.6198	15.2724	689
9	939.2885	18.7858	656
10	1.1240e+03	22.4798	622
11	1.2240e+03	24.4806	589
12	1.3187e+03	26.3740	556
13	1.4024e+03	28.0487	521
14	1.4680e+03	29.7597	487
15	1.7222e+03	34.4443	452
16	2.1110e+03	42.2203	417
17	2.4604e+03	49.2085	382
18	2.6982e+03	53.9230	347
19	2.7406e+03	54.8113	313
20	2.6075e+03	52.1504	278
21	2.4810e+03	49.6195	244

View data Edit data

Delete all Delete by N. N:

Background Image

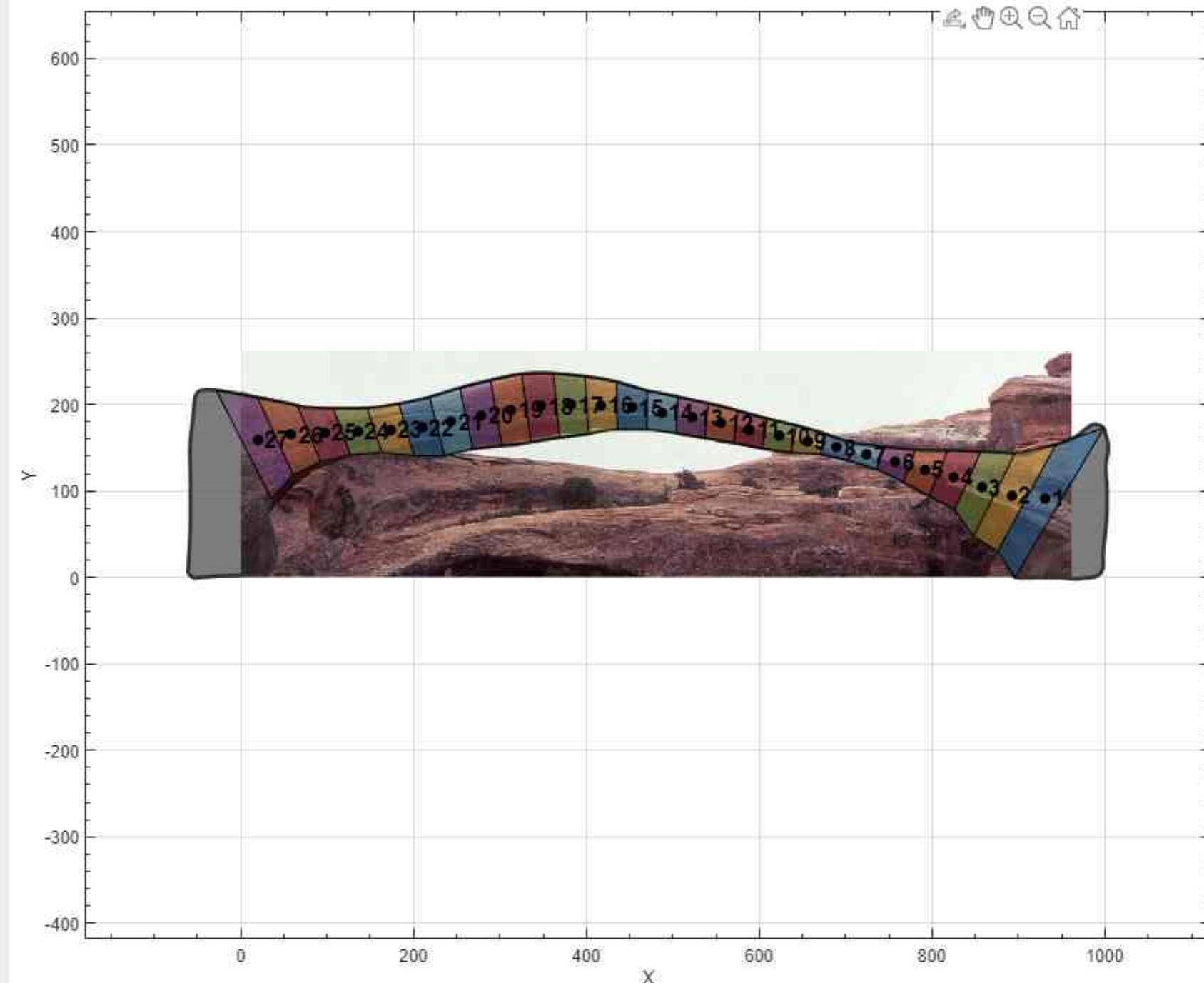
Load image Pick Reference L:

Flip X Interactive on off Target:

Flip Y scale factor: Scale Image

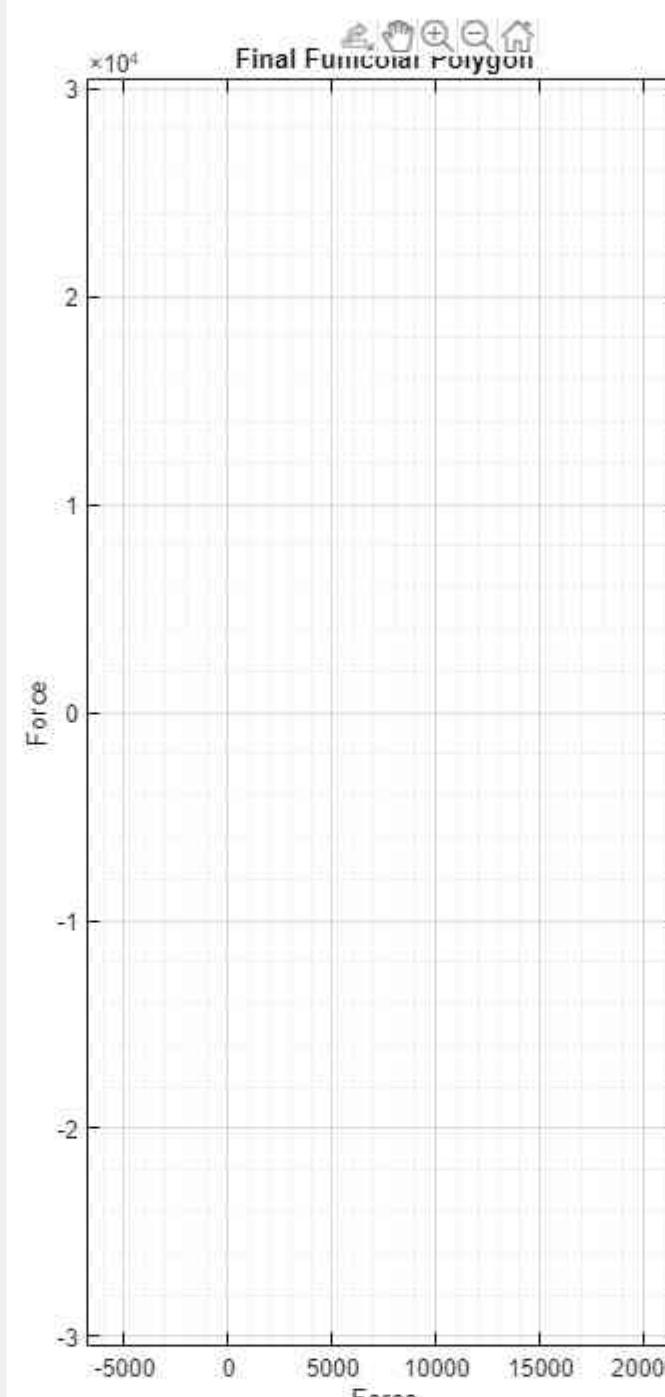
Interactive Area

Reset View Pan Scroll Zoom on Scroll Zoom off Show Structural scale



Force Polygon

Reset View Show Force Scale



Current units: [mm] [tons] [N] [MPa]

Graphics Save/Load Example Blocks properties Units

Block Thickness: Specific Weight:

Graphics Tab2

Force shrink factor:

Arch Definition Thrust Line Mechanism

Arch definition

by Blocks Circular by Sketch Lo >

Add rectangular block

Add irregular Block N. of points

Thickness

Block data

N.	Area	Weight	Xg
1	6.0294e+03	120.5889	930
2	4.3021e+03	86.0429	892
3	3.1257e+03	62.5145	857
4	2.2505e+03	45.0095	825
5	1.6523e+03	33.0455	791
6	1.1450e+03	22.8998	757
7	827.1138	16.5423	724
8	763.6198	15.2724	689
9	939.2885	18.7858	656
10	1.1240e+03	22.4798	622
11	1.2240e+03	24.4806	589
12	1.3187e+03	26.3740	556
13	1.4024e+03	28.0487	521
14	1.4680e+03	29.7597	487
15	1.7222e+03	34.4443	452
16	2.1110e+03	42.2203	417
17	2.4604e+03	49.2085	382
18	2.6982e+03	53.9230	347
19	2.7406e+03	54.8113	313
20	2.6075e+03	52.1504	278
21	2.4810e+03	49.6195	244

View data Edit data

Delete all Delete by N. N:

Background Image

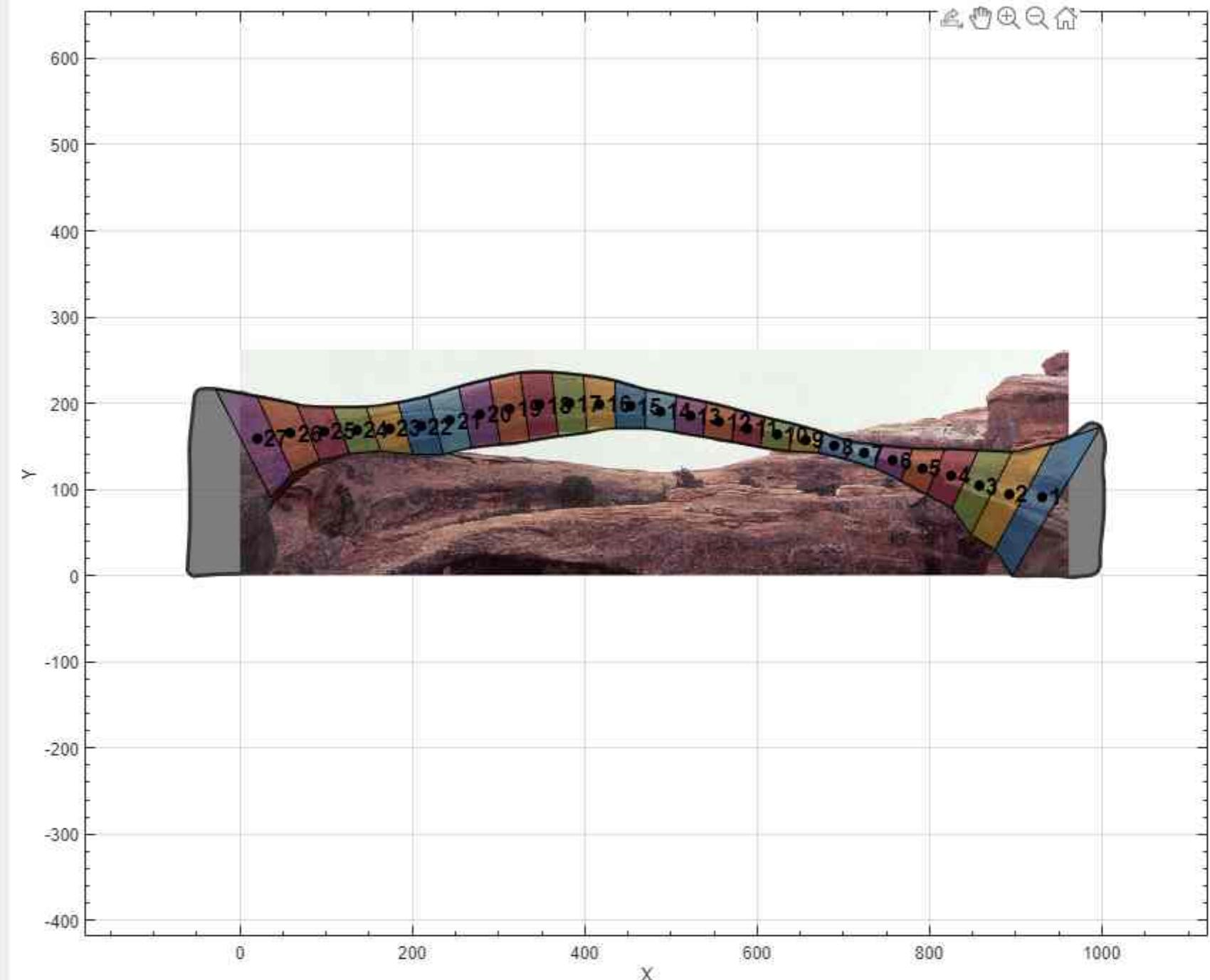
Load image Pick Reference L:

Flip X Interactive on off Target:

Flip Y scale factor: Scale Image

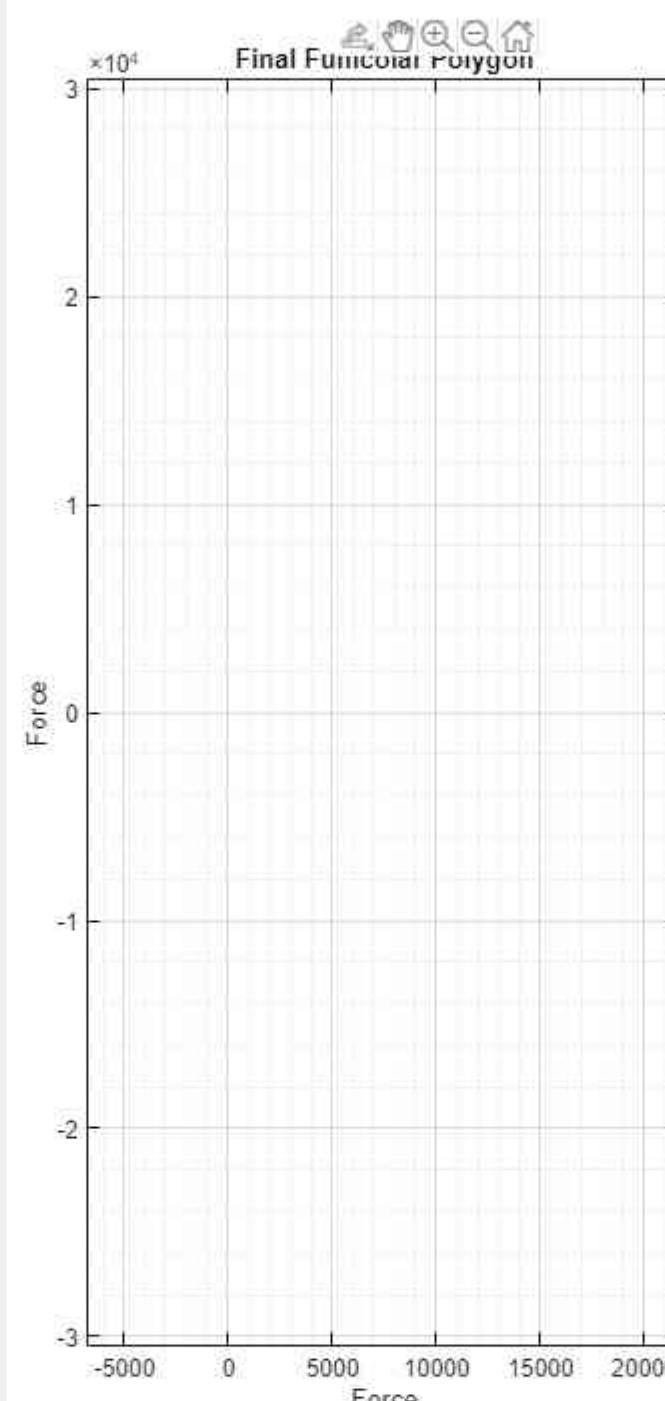
Interactive Area

Reset View Pan Scroll Zoom on Scroll Zoom off Show Structural scale



Force Polygon

Reset View Show Force Scale



Current units: [mm] [tons] [N] [MPa]

Graphics Save/Load Example Blocks properties Units

Block Thickness: Specific Weight:

Graphics Tab2

Force shrink factor:

Arch Definition Thrust Line Mechanism

Arch definition

by Blocks Circular by Sketch Lo >

Add rectangular block

Add irregular Block N. of points

Thickness

Block data

N.	Area	Weight	Xg
1	6.0294e+03	120.5889	930
2	4.3021e+03	86.0429	892
3	3.1257e+03	62.5145	857
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6	1.1450e+03	22.8998	757
7	827.1138	16.5423	724
8	763.6198	15.2724	689
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11	1.2240e+03	24.4806	589
12	1.3187e+03	26.3740	556
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15	1.7222e+03	34.4443	452
16	2.1110e+03	42.2203	417
17	2.4604e+03	49.2085	382
18	2.6982e+03	53.9230	347
19	2.7406e+03	54.8113	313
20	2.6075e+03	52.1504	278
21	2.4810e+03	49.6195	244

View data Edit data

Delete all Delete by N. N:

Background Image

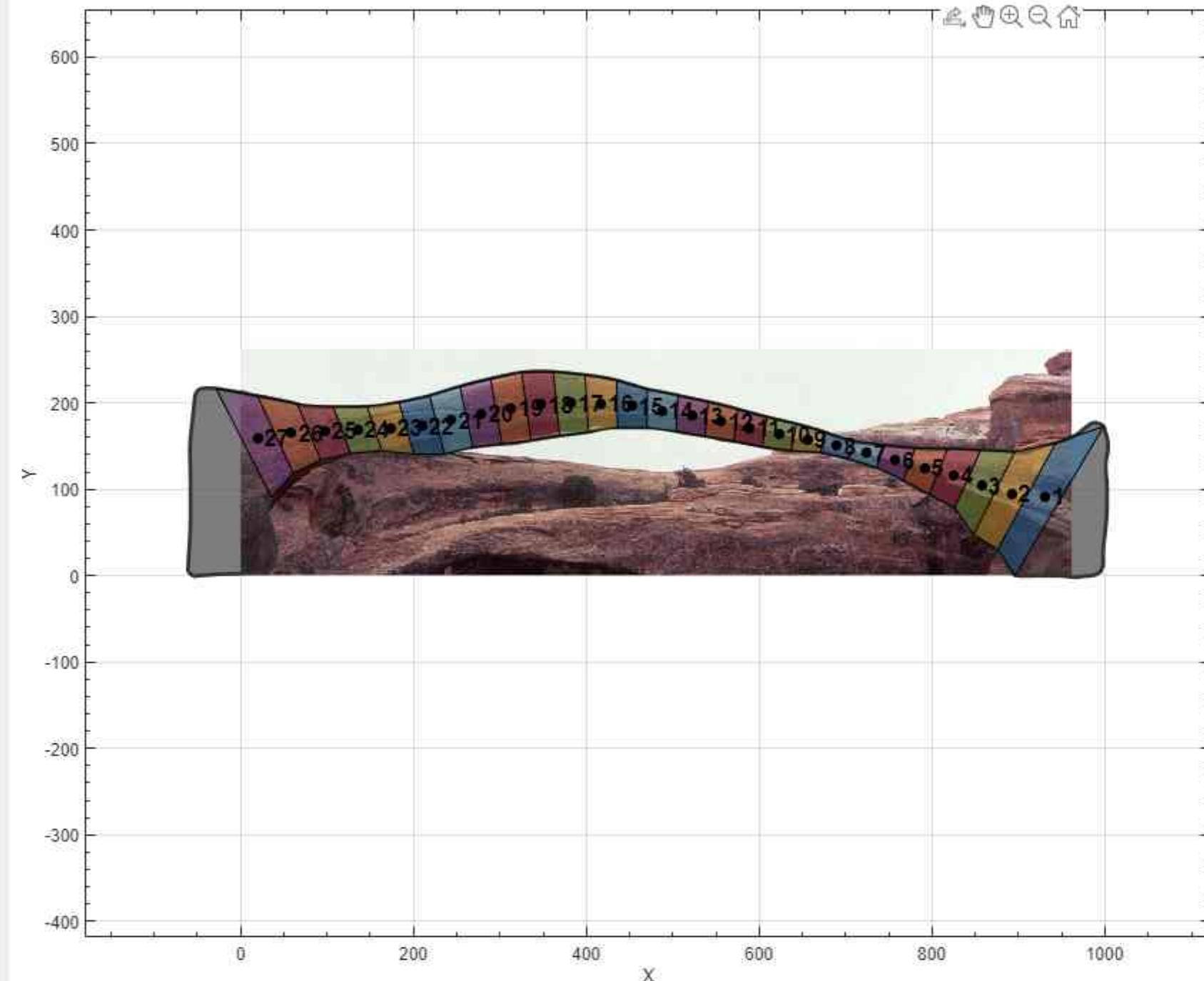
Load image Pick Reference L:

Flip X Interactive on off Target:

Flip Y scale factor: Scale Image

Interactive Area

Reset View Pan Scroll Zoom on Scroll Zoom off Show Structural scale



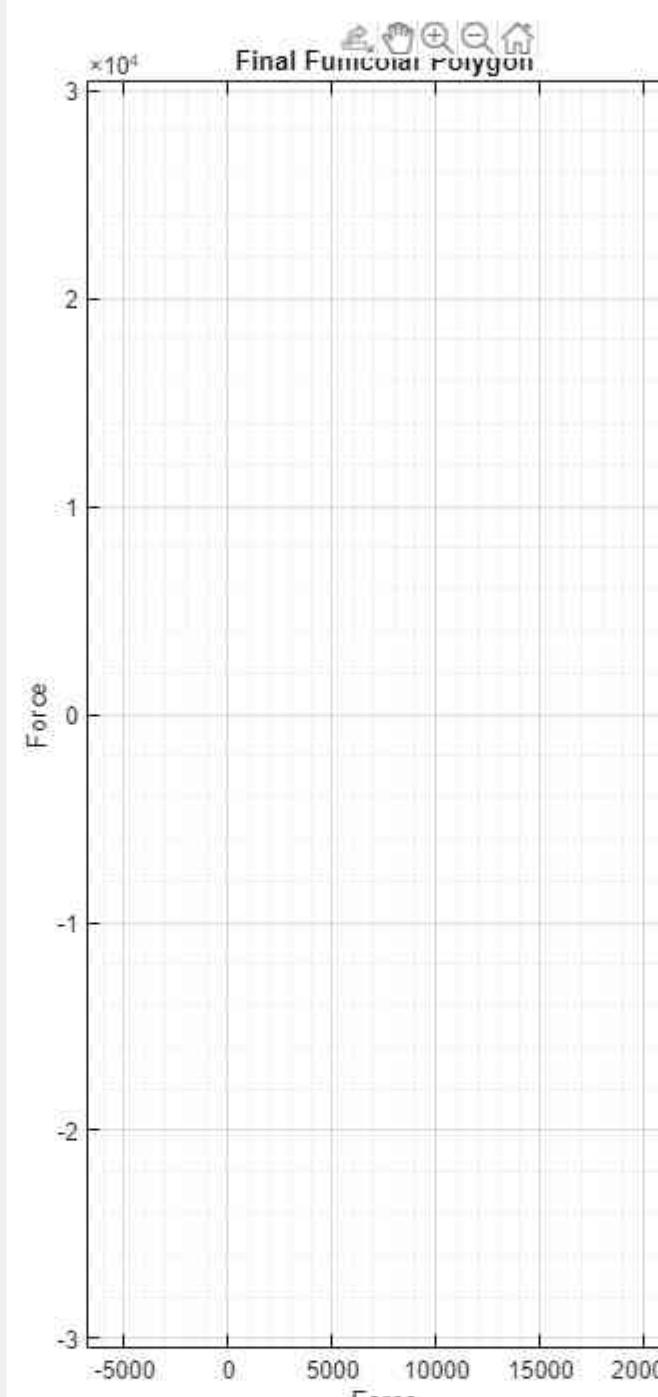
Current units: [mm] [tons] [N] [MPa]

Graphics Save/Load Example Blocks properties Units

Block Thickness: Specific Weight:

Force Polygon

Reset View Show Force Scale



Graphics Tab2

Force shrink factor:

Arch Definition Thrust Line Mechanism

Arch definition

by Blocks Circular by Sketch Lo >

Add rectangular block

Add irregular Block N. of points

Thickness

Block data

N.	Area	Weight	Xg
1	6.0294e+03	120.5889	930
2	4.3021e+03	86.0429	892
3	3.1257e+03	62.5145	857
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6	1.1450e+03	22.8998	757
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15	1.7222e+03	34.4443	452
16	2.1110e+03	42.2203	417
17	2.4604e+03	49.2085	382
18	2.6982e+03	53.9230	347
19	2.7406e+03	54.8113	313
20	2.6075e+03	52.1504	278
21	2.4810e+03	49.6195	244

View data Edit data

Delete all Delete by N. N:

Background Image

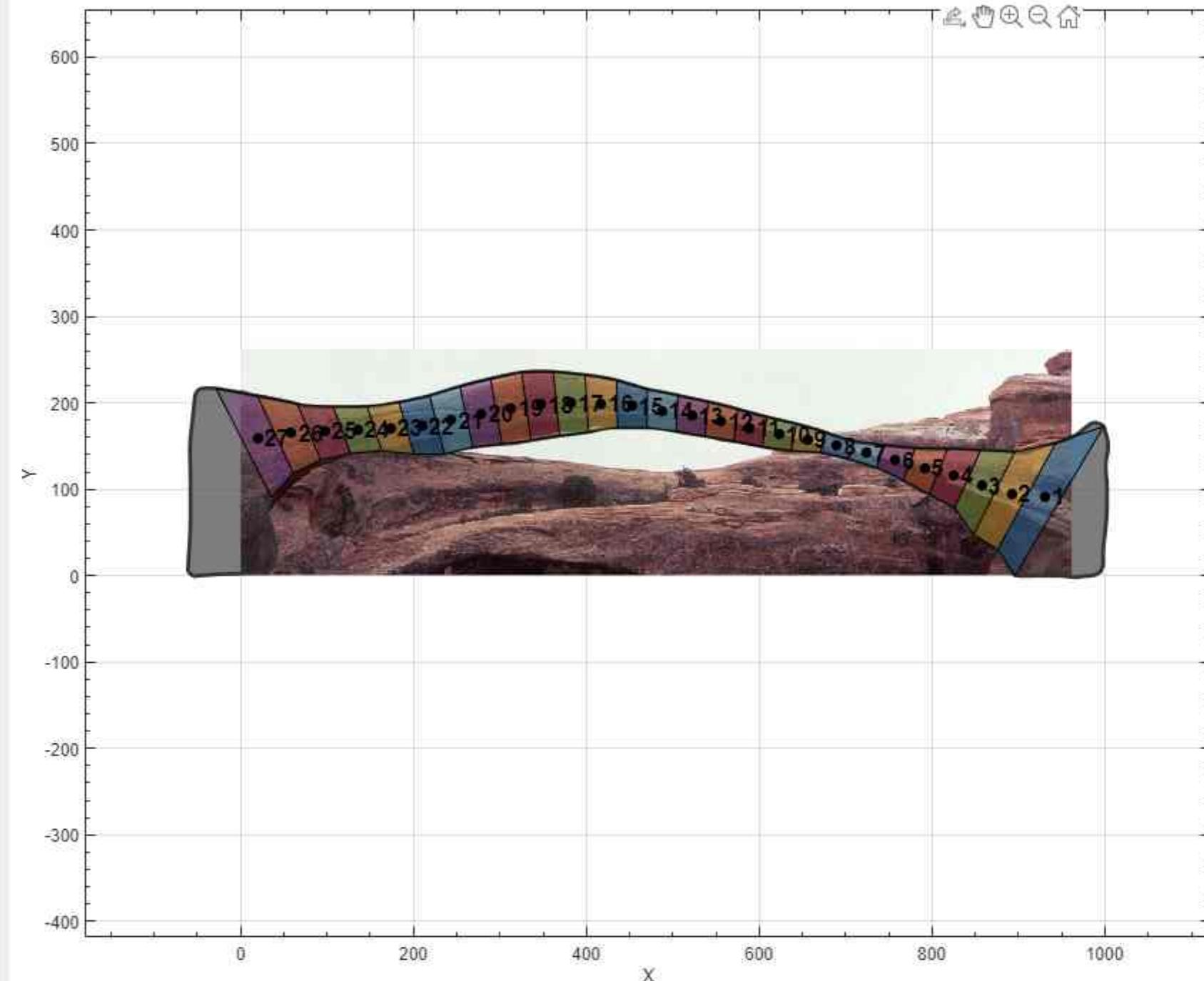
Load image Pick Reference L:

Flip X Interactive on off Target:

Flip Y scale factor: Scale Image

Interactive Area

Reset View Pan Scroll Zoom on Scroll Zoom off Show Structural scale



Current units: [mm] [tons] [N] [MPa]

Graphics Save/Load Example Blocks properties Units

N
Nmm
kg cm

Modulus/Stress
 Pa
 MPa
kg/cm²

Force
 N
 kN
kgf

Mass
 kg
 tons
kgf

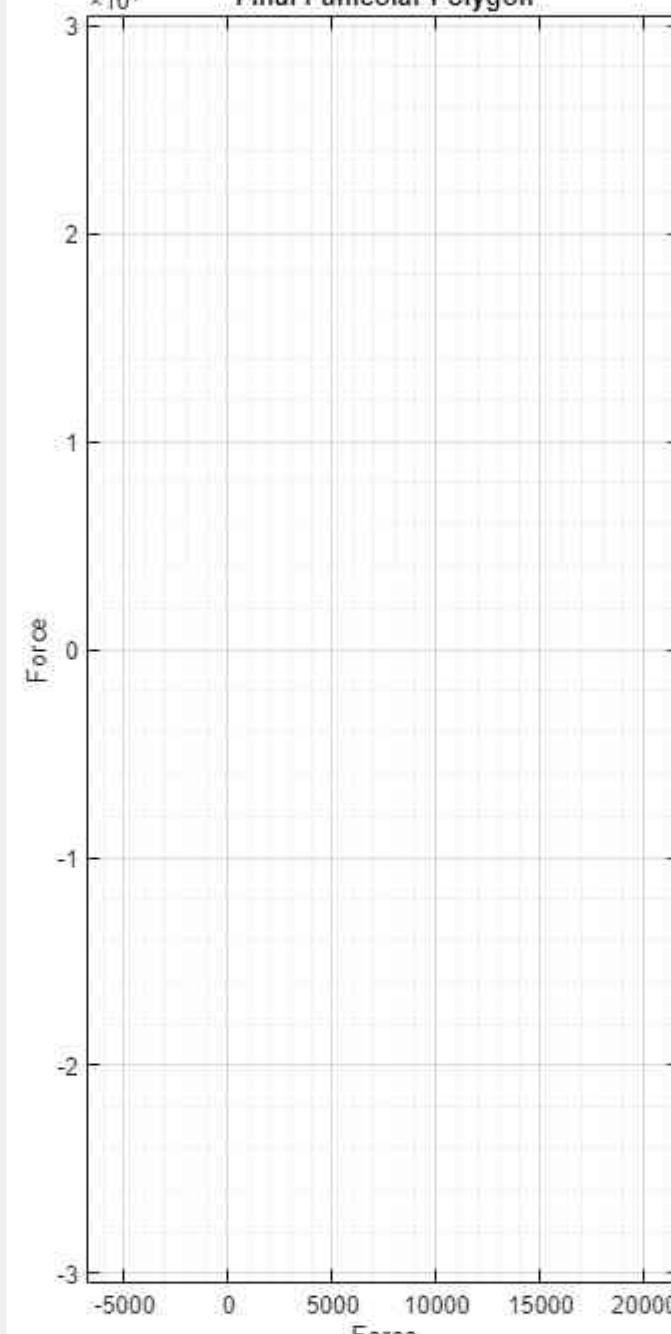
Length
 m
 cm
mm

1 Pixel = unit length

Force Polygon

Reset View Show Force Scale

E P Q R H
Final Funicular Polygon $\times 10^4$



Graphics Tab2

Force shrink factor:

Arch Definition Thrust Line Mechanism

Arch definition

by Blocks Circular by Sketch Lo >

Add rectangular block

Add irregular Block N. of points

Thickness

Block data

N.	Area	Weight	Xg
1	6.0294e+03	120.5889	930
2	4.3021e+03	86.0429	892
3	3.1257e+03	62.5145	857
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5	1.6523e+03	33.0455	791
6	1.1450e+03	22.8998	757
7	827.1138	16.5423	724
8	763.6198	15.2724	689
9	939.2885	18.7858	656
10	1.1240e+03	22.4798	622
11	1.2240e+03	24.4806	589
12	1.3187e+03	26.3740	556
13	1.4024e+03	28.0487	521
14	1.4680e+03	29.7597	487
15	1.7222e+03	34.4443	452
16	2.1110e+03	42.2203	417
17	2.4604e+03	49.2085	382
18	2.6982e+03	53.9230	347
19	2.7406e+03	54.8113	313
20	2.8075e+03	52.1504	278
21	2.4810e+03	49.6195	244

 N:

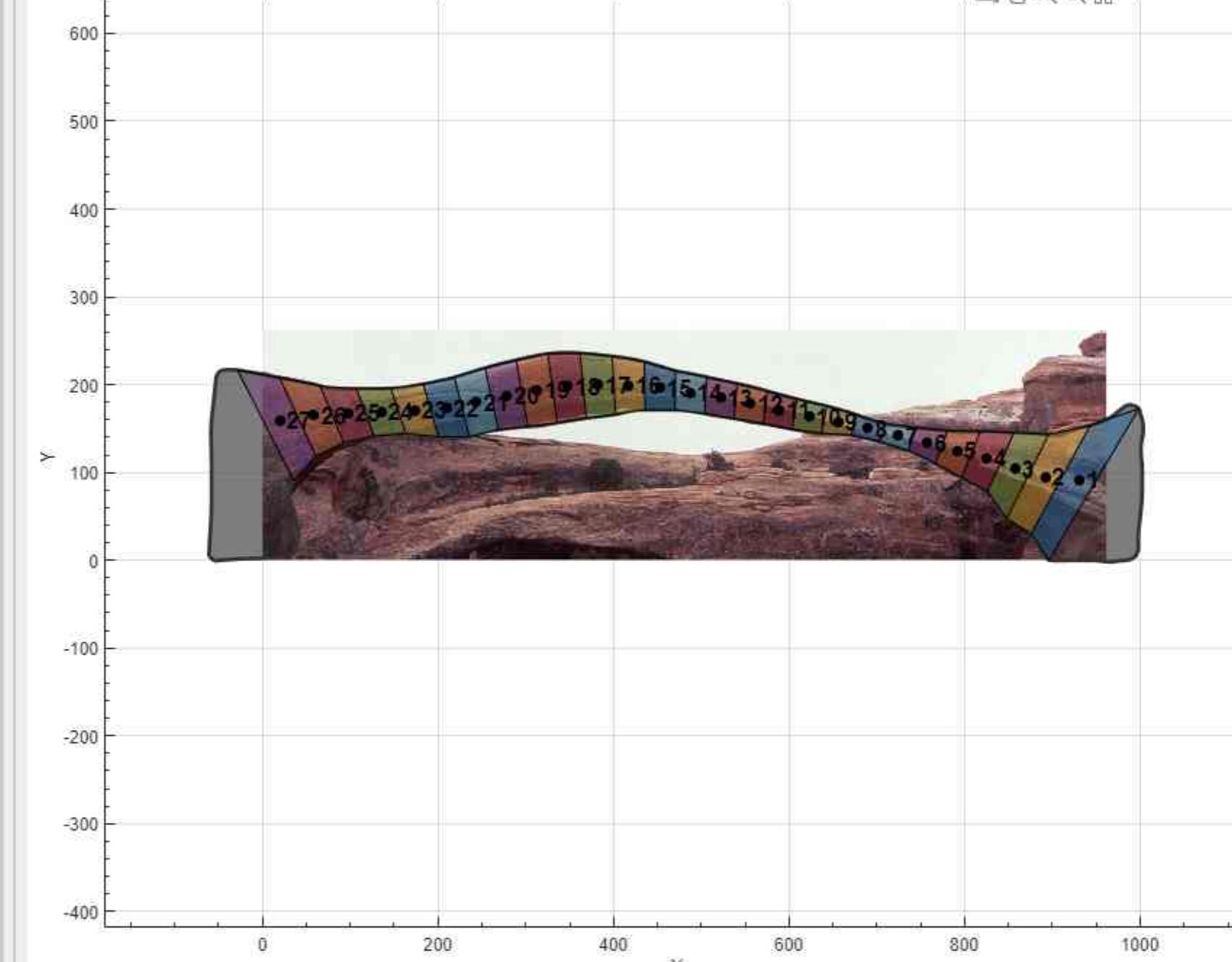
Background Image

 L:

 Interactive on off Target:

 scale factor:

Interactive Area



Current units: [m] [kg] [N] [Pa]

Graphics Save/Load Example Blocks properties Units

SI

Modulus/Stress

Force

Mass

Length

Nm

kg cm

Pa

kg/cm²

MPa

kN

kgf

t

g

cm

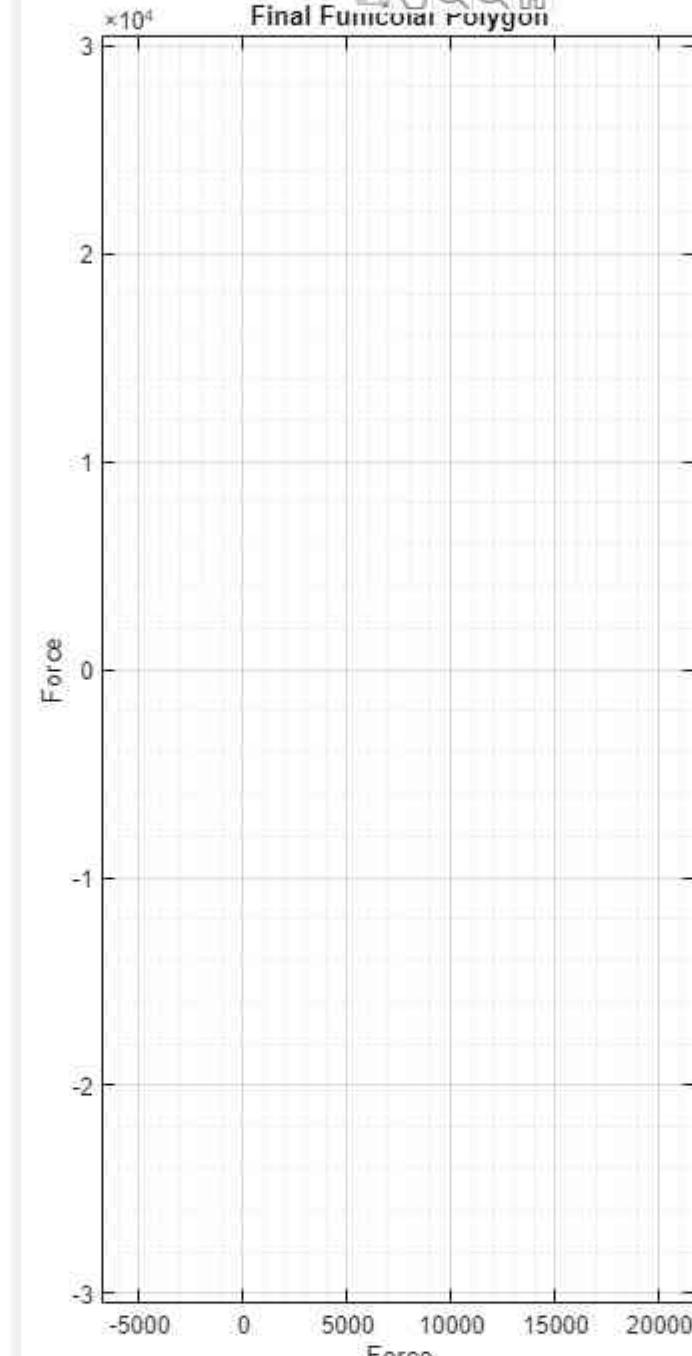
mm

1 Pixel = unit length

Force Polygon



Final Funicular Polygon



Graphics Tab2

Force shrink factor

0

Arch Definition Thrust Line Mechanism

Arch definition

by Blocks Circular by Sketch Lo >

Add rectangular block

Add irregular Block N. of points

Thickness

Block data

N.	Area	Weight	Xg
1	6.0294e+03	120.5889	930
2	4.3021e+03	86.0429	892
3	3.1257e+03	62.5145	857
4	2.2505e+03	45.0095	825
5	1.6523e+03	33.0455	791
6	1.1450e+03	22.8998	757
7	827.1138	16.5423	724
8	763.6198	15.2724	689
9	939.2885	18.7858	656
10	1.1240e+03	22.4798	622
11	1.2240e+03	24.4806	589
12	1.3187e+03	26.3740	556
13	1.4024e+03	28.0487	521
14	1.4680e+03	29.7597	487
15	1.7222e+03	34.4443	452
16	2.1110e+03	42.2203	417
17	2.4604e+03	49.2085	382
18	2.6982e+03	53.9230	347
19	2.7406e+03	54.8113	313
20	2.6075e+03	52.1504	278
21	2.4810e+03	49.6195	244

 N:

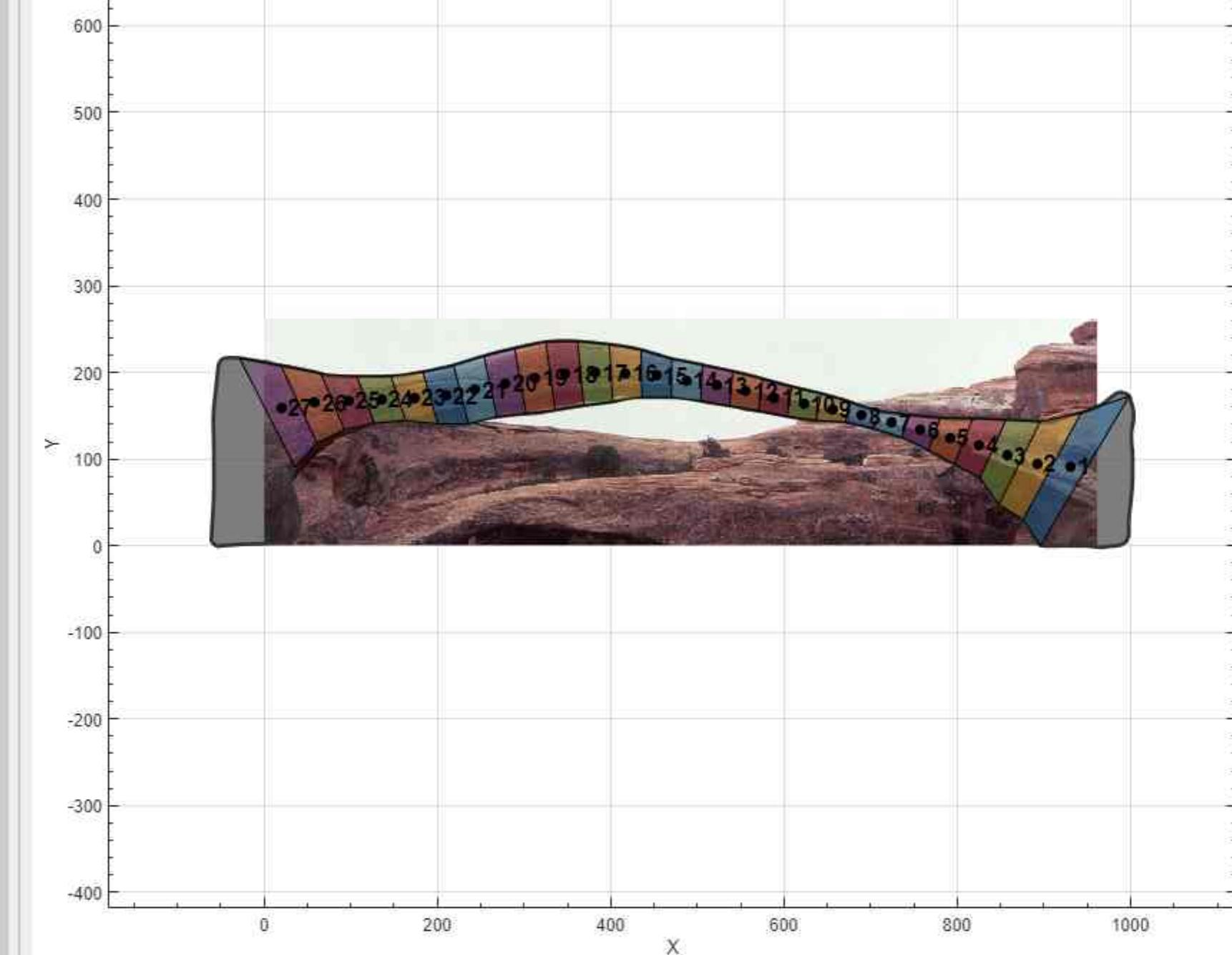
Background Image

 L:

 Interactive on off Target:

 scale factor:

Interactive Area



Current units: [mm] [tons] [N] [MPa]

Graphics Save/Load Example Blocks properties Units

SI

Modulus/Stress

Force

Mass

Length

Nmm

Pa

N

kg

m

kg cm

MPa

kN

tons

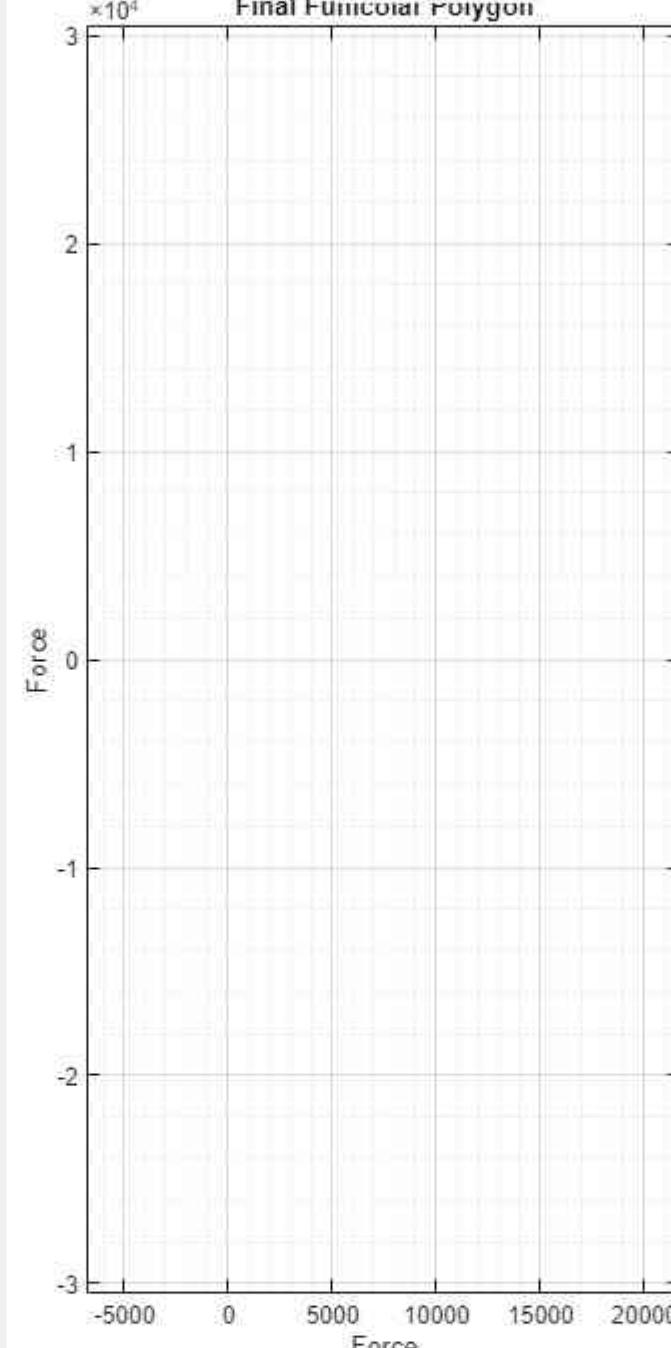
cm

kg/cm²

kgf

g

Force Polygon



Graphics Tab2

Force shrink factor

0