

Default mesh parameters, which were not changed throughout mesh convergence study
max. element growth rate: 1.3
curvature factor: 0.2
resolution of narrow regions: 1

Bending force: 500 N (resulting bending moment of 50 Nm)

Parameters that were varied in study			
max element size in [m]	min. element size in [m]	number of elem. along thickness of	number of elem. along axial direction in eval dom
elemsizefac*2E-2	elemsizefac*2E-4	dom1a3fac*4	dom2fac*33

Combination number	Multiplication factor for elemsizefac	Multiplication factor for dom1a3fac	Multiplication factor for dom2fac	Von Mises stress in domain 2 (N/m ²) (eval dom)	Relative error von Mises to finest mesh (comb 1) in %	Displacement an point at free end in (m)	Relative error displacement at free end to finest mesh (comb 1) in %	Force (N)	Remarks
1	0.5	0.5	0.33333	7.4173E+07	-6.3449E+00	4.7661E-04	-6.5000E-02	500	
2	0.5	0.5	1	7.6997E+07	-2.7791E+00	4.7684E-04	-1.6774E-02	500	
3	0.5	0.5	3	7.8443E+07	-9.5331E-01	4.7685E-04	-1.4678E-02	500	
4	0.5	1	0.33333	7.4331E+07	-6.1454E+00	4.7666E-04	-5.4516E-02	500	
5	0.5	1	1	7.7428E+07	-2.2349E+00	4.7689E-04	-6.2904E-03	500	
6	0.5	1	3	7.9244E+07	5.8082E-02	4.7690E-04	-4.1936E-03	500	
7	0.5	2	0.33333	7.4332E+07	-6.1441E+00	4.7668E-04	-5.0323E-02	500	
8	0.5	2	1	7.7390E+07	-2.2829E+00	4.7691E-04	-2.0968E-03	500	
9	0.5	2	3	7.9198E+07	reference	4.7692E-04	reference	500	Reference case (highest number of elements)
10	1	0.5	0.33333	7.4173E+07	-6.3449E+00	4.7661E-04	-6.5000E-02	500	
11	1	0.5	1	7.6997E+07	-2.7791E+00	4.7684E-04	-1.6774E-02	500	
12	1	0.5	3	7.8443E+07	-9.5331E-01	4.7685E-04	-1.4678E-02	500	
13	1	1	0.33333	7.4331E+07	-6.1454E+00	4.7666E-04	-5.4516E-02	500	
14	1	1	1	7.7428E+07	-2.2349E+00	4.7689E-04	-6.2904E-03	500	Special case; all additional multiplication factors equal to 1
15	1	1	3	7.9244E+07	5.8082E-02	4.7690E-04	-4.1936E-03	500	
16	1	2	0.33333	7.4332E+07	-6.1441E+00	4.7668E-04	-5.0323E-02	500	
17	1	2	1	7.7390E+07	-2.2829E+00	4.7691E-04	-2.0968E-03	500	
18	1	2	3	7.9198E+07	0.0000E+00	4.7692E-04	0.0000E+00	500	
19	2	0.5	0.33333	7.4134E+07	-6.3941E+00	4.7659E-04	-6.9194E-02	500	
20	2	0.5	1	7.7129E+07	-2.6124E+00	4.7682E-04	-2.0968E-02	500	
21	2	0.5	3	7.8300E+07	-1.1339E+00	4.7684E-04	-1.6774E-02	500	
22	2	1	0.33333	7.4296E+07	-6.1896E+00	4.7664E-04	-5.8710E-02	500	
23	2	1	1	7.7568E+07	-2.0581E+00	4.7687E-04	-1.0484E-02	500	
24	2	1	3	7.9569E+07	4.6845E-01	4.7689E-04	-6.2904E-03	500	
25	2	2	0.33333	7.4295E+07	-6.1908E+00	4.7667E-04	-5.2420E-02	500	
26	2	2	1	7.7530E+07	-2.1061E+00	4.7689E-04	-6.2904E-03	500	
27	2	2	3	7.9538E+07	4.2930E-01	4.7691E-04	-2.0968E-03	500	

Max. relative error stress eval:	4.6845E-01	Max. relative error disp.:	0.0000E+00
Min. relative error stress eval:	-6.3941E+00	Min. relative error disp.:	-6.9194E-02