

*Heading

** Job name: BC=30 Model name: CopyOfload=600X

** Generated by: Abaqus/CAE 6.13-2

*Preprint, echo=NO, model=NO, history=NO, contact=NO

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** PARTS

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4274, 4275, 4276, 4277, 4278, 4279, 4280, 4281, 4282, 4283

*Nset, nset=BOTTOMLOAD

23,

** Section: Section-2-ADHESIVE1

*Solid Section, elset=ADHESIVE1, material=ADHESIVE(STANDARD)

,

** Section: Section-3-ADHESIVE3

*Solid Section, elset=ADHESIVE3, material=ADHESIVE(STANDARD)

,

** Section: Section-4-BOTTOMBEAM

*Solid Section, elset=BOTTOMBEAM, material=ALUMINIUM

,

** Section: Section-5-ADHESIVE2

*Solid Section, elset=ADHESIVE2, material=ADHESIVE(STANDARD)

,

*End Part

**

*Part, name=COHESIVE-MESH-1

*Node

1,	-310.,	0.
2,	-309.,	0.
3,	-308.,	0.
4,	-307.,	0.
5,	-306.,	0.
6,	-305.,	0.
7,	-304.,	0.
8,	-303.,	0.
9,	-302.,	0.
10,	-301.,	0.
11,	-300.,	0.
12,	-299.,	0.
13,	-298.,	0.
14,	-297.,	0.
15,	-296.,	0.
16,	-295.,	0.
17,	-294.,	0.
18,	-293.,	0.
19,	-292.,	0.
20,	-291.,	0.
21,	-290.,	0.
22,	-289.,	0.
23,	-288.,	0.
24,	-287.,	0.
25,	-286.,	0.
26,	-285.,	0.

27,	-284.,	0.
28,	-283.,	0.
29,	-282.,	0.
30,	-281.,	0.
31,	-280.,	0.
32,	-279.,	0.
33,	-278.,	0.
34,	-277.,	0.
35,	-276.,	0.
36,	-275.,	0.
37,	-274.,	0.
38,	-273.,	0.
39,	-272.,	0.
40,	-271.,	0.
41,	-270.,	0.
42,	-269.,	0.
43,	-268.,	0.
44,	-267.,	0.
45,	-266.,	0.
46,	-265.,	0.
47,	-264.,	0.
48,	-263.,	0.
49,	-262.,	0.
50,	-261.,	0.
51,	-260.,	0.
52,	-259.,	0.
53,	-258.,	0.
54,	-257.,	0.
55,	-256.,	0.
56,	-255.,	0.
57,	-254.,	0.

58,	-253.,	0.
59,	-252.,	0.
60,	-251.,	0.
61,	-250.,	0.
62,	-249.,	0.
63,	-248.,	0.
64,	-247.,	0.
65,	-246.,	0.
66,	-245.,	0.
67,	-244.,	0.
68,	-243.,	0.
69,	-242.,	0.
70,	-241.,	0.
71,	-240.,	0.
72,	-239.,	0.
73,	-238.,	0.
74,	-237.,	0.
75,	-236.,	0.
76,	-235.,	0.
77,	-234.,	0.
78,	-233.,	0.
79,	-232.,	0.
80,	-231.,	0.
81,	-230.,	0.
82,	-229.,	0.
83,	-228.,	0.
84,	-227.,	0.
85,	-226.,	0.
86,	-225.,	0.
87,	-224.,	0.
88,	-223.,	0.

89,	-222.,	0.
90,	-221.,	0.
91,	-220.,	0.
92,	-219.,	0.
93,	-218.,	0.
94,	-217.,	0.
95,	-216.,	0.
96,	-215.,	0.
97,	-214.,	0.
98,	-213.,	0.
99,	-212.,	0.
100,	-211.,	0.
101,	-210.,	0.
102,	-209.,	0.
103,	-208.,	0.
104,	-207.,	0.
105,	-206.,	0.
106,	-205.,	0.
107,	-204.,	0.
108,	-203.,	0.
109,	-202.,	0.
110,	-201.,	0.
111,	-200.,	0.
112,	-199.,	0.
113,	-198.,	0.
114,	-197.,	0.
115,	-196.,	0.
116,	-195.,	0.
117,	-194.,	0.
118,	-193.,	0.
119,	-192.,	0.

120,	-191.,	0.
121,	-190.,	0.
122,	-189.,	0.
123,	-188.,	0.
124,	-187.,	0.
125,	-186.,	0.
126,	-185.,	0.
127,	-184.,	0.
128,	-183.,	0.
129,	-182.,	0.
130,	-181.,	0.
131,	-180.,	0.
132,	-179.,	0.
133,	-178.,	0.
134,	-177.,	0.
135,	-176.,	0.
136,	-175.,	0.
137,	-174.,	0.
138,	-173.,	0.
139,	-172.,	0.
140,	-171.,	0.
141,	-170.,	0.
142,	-169.,	0.
143,	-168.,	0.
144,	-167.,	0.
145,	-166.,	0.
146,	-165.,	0.
147,	-164.,	0.
148,	-163.,	0.
149,	-162.,	0.
150,	-161.,	0.

151,	-160.,	0.
152,	-159.,	0.
153,	-158.,	0.
154,	-157.,	0.
155,	-156.,	0.
156,	-155.,	0.
157,	-154.,	0.
158,	-153.,	0.
159,	-152.,	0.
160,	-151.,	0.
161,	-150.,	0.
162,	-149.,	0.
163,	-148.,	0.
164,	-147.,	0.
165,	-146.,	0.
166,	-145.,	0.
167,	-144.,	0.
168,	-143.,	0.
169,	-142.,	0.
170,	-141.,	0.
171,	-140.,	0.
172,	-139.,	0.
173,	-138.,	0.
174,	-137.,	0.
175,	-136.,	0.
176,	-135.,	0.
177,	-134.,	0.
178,	-133.,	0.
179,	-132.,	0.
180,	-131.,	0.
181,	-130.,	0.

182,	-129.,	0.
183,	-128.,	0.
184,	-127.,	0.
185,	-126.,	0.
186,	-125.,	0.
187,	-124.,	0.
188,	-123.,	0.
189,	-122.,	0.
190,	-121.,	0.
191,	-120.,	0.
192,	-119.,	0.
193,	-118.,	0.
194,	-117.,	0.
195,	-116.,	0.
196,	-115.,	0.
197,	-114.,	0.
198,	-113.,	0.
199,	-112.,	0.
200,	-111.,	0.
201,	-110.,	0.
202,	-109.,	0.
203,	-108.,	0.
204,	-107.,	0.
205,	-106.,	0.
206,	-105.,	0.
207,	-104.,	0.
208,	-103.,	0.
209,	-102.,	0.
210,	-101.,	0.
211,	-100.,	0.
212,	-99.,	0.

213,	-98.,	0.
214,	-97.,	0.
215,	-96.,	0.
216,	-95.,	0.
217,	-94.,	0.
218,	-93.,	0.
219,	-92.,	0.
220,	-91.,	0.
221,	-90.,	0.
222,	-89.,	0.
223,	-88.,	0.
224,	-87.,	0.
225,	-86.,	0.
226,	-85.,	0.
227,	-84.,	0.
228,	-83.,	0.
229,	-82.,	0.
230,	-81.,	0.
231,	-80.,	0.
232,	-79.,	0.
233,	-78.,	0.
234,	-77.,	0.
235,	-76.,	0.
236,	-75.,	0.
237,	-74.,	0.
238,	-73.,	0.
239,	-72.,	0.
240,	-71.,	0.
241,	-70.,	0.
242,	-69.,	0.
243,	-68.,	0.

244,	-67.,	0.
245,	-66.,	0.
246,	-65.,	0.
247,	-64.,	0.
248,	-63.,	0.
249,	-62.,	0.
250,	-61.,	0.
251,	-60.,	0.
252,	-310.,	0.
253,	-309.,	0.
254,	-308.,	0.
255,	-307.,	0.
256,	-306.,	0.
257,	-305.,	0.
258,	-304.,	0.
259,	-303.,	0.
260,	-302.,	0.
261,	-301.,	0.
262,	-300.,	0.
263,	-299.,	0.
264,	-298.,	0.
265,	-297.,	0.
266,	-296.,	0.
267,	-295.,	0.
268,	-294.,	0.
269,	-293.,	0.
270,	-292.,	0.
271,	-291.,	0.
272,	-290.,	0.
273,	-289.,	0.
274,	-288.,	0.

275,	-287.,	0.
276,	-286.,	0.
277,	-285.,	0.
278,	-284.,	0.
279,	-283.,	0.
280,	-282.,	0.
281,	-281.,	0.
282,	-280.,	0.
283,	-279.,	0.
284,	-278.,	0.
285,	-277.,	0.
286,	-276.,	0.
287,	-275.,	0.
288,	-274.,	0.
289,	-273.,	0.
290,	-272.,	0.
291,	-271.,	0.
292,	-270.,	0.
293,	-269.,	0.
294,	-268.,	0.
295,	-267.,	0.
296,	-266.,	0.
297,	-265.,	0.
298,	-264.,	0.
299,	-263.,	0.
300,	-262.,	0.
301,	-261.,	0.
302,	-260.,	0.
303,	-259.,	0.
304,	-258.,	0.
305,	-257.,	0.

306,	-256.,	0.
307,	-255.,	0.
308,	-254.,	0.
309,	-253.,	0.
310,	-252.,	0.
311,	-251.,	0.
312,	-250.,	0.
313,	-249.,	0.
314,	-248.,	0.
315,	-247.,	0.
316,	-246.,	0.
317,	-245.,	0.
318,	-244.,	0.
319,	-243.,	0.
320,	-242.,	0.
321,	-241.,	0.
322,	-240.,	0.
323,	-239.,	0.
324,	-238.,	0.
325,	-237.,	0.
326,	-236.,	0.
327,	-235.,	0.
328,	-234.,	0.
329,	-233.,	0.
330,	-232.,	0.
331,	-231.,	0.
332,	-230.,	0.
333,	-229.,	0.
334,	-228.,	0.
335,	-227.,	0.
336,	-226.,	0.

337,	-225.,	0.
338,	-224.,	0.
339,	-223.,	0.
340,	-222.,	0.
341,	-221.,	0.
342,	-220.,	0.
343,	-219.,	0.
344,	-218.,	0.
345,	-217.,	0.
346,	-216.,	0.
347,	-215.,	0.
348,	-214.,	0.
349,	-213.,	0.
350,	-212.,	0.
351,	-211.,	0.
352,	-210.,	0.
353,	-209.,	0.
354,	-208.,	0.
355,	-207.,	0.
356,	-206.,	0.
357,	-205.,	0.
358,	-204.,	0.
359,	-203.,	0.
360,	-202.,	0.
361,	-201.,	0.
362,	-200.,	0.
363,	-199.,	0.
364,	-198.,	0.
365,	-197.,	0.
366,	-196.,	0.
367,	-195.,	0.

368,	-194.,	0.
369,	-193.,	0.
370,	-192.,	0.
371,	-191.,	0.
372,	-190.,	0.
373,	-189.,	0.
374,	-188.,	0.
375,	-187.,	0.
376,	-186.,	0.
377,	-185.,	0.
378,	-184.,	0.
379,	-183.,	0.
380,	-182.,	0.
381,	-181.,	0.
382,	-180.,	0.
383,	-179.,	0.
384,	-178.,	0.
385,	-177.,	0.
386,	-176.,	0.
387,	-175.,	0.
388,	-174.,	0.
389,	-173.,	0.
390,	-172.,	0.
391,	-171.,	0.
392,	-170.,	0.
393,	-169.,	0.
394,	-168.,	0.
395,	-167.,	0.
396,	-166.,	0.
397,	-165.,	0.
398,	-164.,	0.

399,	-163.,	0.
400,	-162.,	0.
401,	-161.,	0.
402,	-160.,	0.
403,	-159.,	0.
404,	-158.,	0.
405,	-157.,	0.
406,	-156.,	0.
407,	-155.,	0.
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409,	-153.,	0.
410,	-152.,	0.
411,	-151.,	0.
412,	-150.,	0.
413,	-149.,	0.
414,	-148.,	0.
415,	-147.,	0.
416,	-146.,	0.
417,	-145.,	0.
418,	-144.,	0.
419,	-143.,	0.
420,	-142.,	0.
421,	-141.,	0.
422,	-140.,	0.
423,	-139.,	0.
424,	-138.,	0.
425,	-137.,	0.
426,	-136.,	0.
427,	-135.,	0.
428,	-134.,	0.
429,	-133.,	0.

430,	-132.,	0.
431,	-131.,	0.
432,	-130.,	0.
433,	-129.,	0.
434,	-128.,	0.
435,	-127.,	0.
436,	-126.,	0.
437,	-125.,	0.
438,	-124.,	0.
439,	-123.,	0.
440,	-122.,	0.
441,	-121.,	0.
442,	-120.,	0.
443,	-119.,	0.
444,	-118.,	0.
445,	-117.,	0.
446,	-116.,	0.
447,	-115.,	0.
448,	-114.,	0.
449,	-113.,	0.
450,	-112.,	0.
451,	-111.,	0.
452,	-110.,	0.
453,	-109.,	0.
454,	-108.,	0.
455,	-107.,	0.
456,	-106.,	0.
457,	-105.,	0.
458,	-104.,	0.
459,	-103.,	0.
460,	-102.,	0.

461,	-101.,	0.
462,	-100.,	0.
463,	-99.,	0.
464,	-98.,	0.
465,	-97.,	0.
466,	-96.,	0.
467,	-95.,	0.
468,	-94.,	0.
469,	-93.,	0.
470,	-92.,	0.
471,	-91.,	0.
472,	-90.,	0.
473,	-89.,	0.
474,	-88.,	0.
475,	-87.,	0.
476,	-86.,	0.
477,	-85.,	0.
478,	-84.,	0.
479,	-83.,	0.
480,	-82.,	0.
481,	-81.,	0.
482,	-80.,	0.
483,	-79.,	0.
484,	-78.,	0.
485,	-77.,	0.
486,	-76.,	0.
487,	-75.,	0.
488,	-74.,	0.
489,	-73.,	0.
490,	-72.,	0.
491,	-71.,	0.

492,	-70.,	0.
493,	-69.,	0.
494,	-68.,	0.
495,	-67.,	0.
496,	-66.,	0.
497,	-65.,	0.
498,	-64.,	0.
499,	-63.,	0.
500,	-62.,	0.
501,	-61.,	0.
502,	-60.,	0.

*Element, type=COH2D4

1,	1,	2,	253,	252
2,	2,	3,	254,	253
3,	3,	4,	255,	254
4,	4,	5,	256,	255
5,	5,	6,	257,	256
6,	6,	7,	258,	257
7,	7,	8,	259,	258
8,	8,	9,	260,	259
9,	9,	10,	261,	260
10,	10,	11,	262,	261
11,	11,	12,	263,	262
12,	12,	13,	264,	263
13,	13,	14,	265,	264
14,	14,	15,	266,	265
15,	15,	16,	267,	266
16,	16,	17,	268,	267
17,	17,	18,	269,	268
18,	18,	19,	270,	269
19,	19,	20,	271,	270

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*Nset, nset=BOTTOM, generate

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*Nset, nset=TOP, generate

252, 502, 1

*Elset, elset=SET-1, generate

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*Elset, elset=Set-4, generate

1, 250, 1

*Elset, elset=_Surf-1_S3, internal, generate

1, 250, 1

*Surface, type=ELEMENT, name=Surf-1

_Surf-1_S3, S3

*Elset, elset=_Surf-2_S1, internal, generate

1, 250, 1

*Surface, type=ELEMENT, name=Surf-2

_Surf-2_S1, S1

** Section: Section-1-SET-1

*Cohesive Section, elset=Set-4, controls=EC-1, material=COHESIVE, response=TRACTION
SEPARATION

,

*End Part

**

*Part, name=TOPPART

*Node

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5761, 5762, 5763, 5764, 5765, 5766, 5767, 5768, 5769, 5770, 5771, 5772, 5773, 5774, 5775, 5776
5777, 5778, 5779, 5780, 5781, 5782, 5783, 5784, 5785, 5786, 5787, 5788, 5789, 5790, 5791, 5792
5793, 5794, 5795, 5796, 5797, 5798, 5799, 5800, 5801, 5802, 5803, 5804, 5805, 5806, 5807, 5808
5809, 5810, 5811, 5812, 5813, 5814, 5815, 5816, 5817, 5818, 5819, 5820, 5821, 5822, 5823, 5824
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5857, 5858, 5859, 5860, 5861, 5862, 5863, 5864, 5865, 5866, 5867, 5868, 5869, 5870, 5871, 5872
5873, 5874, 5875, 5876, 5877, 5878, 5879, 5880, 5881, 5882, 5883, 5884, 5885, 5886, 5887, 5888
5889, 5890, 5891, 5892, 5893, 5894, 5895, 5896, 5897, 5898, 5899, 5900, 5901, 5902, 5903, 5904
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5953, 5954, 5955, 5956, 5957, 5958, 5959, 5960, 5961, 5962, 5963, 5964, 5965, 5966, 5967, 5968
5969, 5970, 5971, 5972, 5973, 5974, 5975, 5976, 5977, 5978, 5979, 5980, 5981, 5982, 5983, 5984
5985, 5986, 5987, 5988, 5989, 5990, 5991, 5992, 5993, 5994, 5995, 5996, 5997, 5998, 5999, 6000
6001, 6002, 6003, 6004, 6005, 6006, 6007, 6008, 6009, 6010, 6011, 6012, 6013, 6014, 6015, 6016
6017, 6018, 6019, 6020, 6021, 6022, 6023, 6024, 6025, 6026, 6027, 6028, 6029, 6030, 6031, 6032
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6049, 6050, 6051, 6052, 6053, 6054, 6055, 6056, 6057, 6058, 6059, 6060, 6061, 6062, 6063, 6064
6065, 6066, 6067, 6068, 6069, 6070, 6071, 6072, 6073, 6074, 6075, 6076, 6077, 6078, 6079, 6080
6081, 6082, 6083, 6084, 6085, 6086, 6087, 6088, 6089, 6090, 6091, 6092, 6093, 6094, 6095, 6096
6097, 6098, 6099, 6100, 6101, 6102, 6103, 6104, 6105, 6106, 6107, 6108, 6109, 6110, 6111, 6112
6113, 6114, 6115, 6116, 6117, 6118, 6119, 6120, 6121, 6122, 6123, 6124, 6125, 6126, 6127, 6128
6129, 6130, 6131, 6132, 6133, 6134, 6135, 6136, 6137, 6138, 6139, 6140, 6141, 6142, 6143, 6144
6145, 6146, 6147, 6148, 6149, 6150, 6151, 6152, 6153, 6154, 6155, 6156, 6157, 6158, 6159, 6160
6161, 6162, 6163, 6164, 6165, 6166, 6167, 6168, 6169, 6170, 6171, 6172, 6173, 6174, 6175, 6176
6177, 6178, 6179, 6180, 6181, 6182, 6183, 6184, 6185, 6186, 6187, 6188, 6189, 6190, 6191, 6192
6193, 6194, 6195, 6196, 6197, 6198, 6199, 6200, 6201, 6202, 6203, 6204, 6205, 6206, 6207, 6208

6209, 6210, 6211, 6212, 6213, 6214, 6215, 6216, 6217, 6218, 6219, 6220, 6221, 6222, 6223, 6224
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6241, 6242, 6243, 6244, 6245, 6246, 6247, 6248, 6249, 6250, 6251, 6252, 6253, 6254, 6255, 6256
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6289, 6290, 6291, 6292, 6293, 6294, 6295, 6296, 6297, 6298, 6299, 6300, 6301, 6302, 6303, 6304
6305, 6306, 6307, 6308, 6309, 6310, 6311, 6312, 6313, 6314, 6315, 6316, 6317, 6318, 6319, 6320
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6337, 6338, 6339, 6340, 6341, 6342, 6343, 6344, 6345, 6346, 6347, 6348, 6349, 6350, 6351, 6352
6353, 6354, 6355, 6356, 6357, 6358, 6359, 6360, 6361, 6362, 6363, 6364, 6365, 6366, 6367, 6368
6369, 6370, 6371, 6372, 6373, 6374, 6375, 6376, 6377, 6378, 6379, 6380, 6381, 6382, 6383, 6384
6385, 6386, 6387, 6388, 6389, 6390, 6391, 6392, 6393, 6394, 6395, 6396, 6397, 6398, 6399, 6400
6401, 6402, 6403, 6404, 6405, 6406, 6407, 6408, 6409, 6410, 6411, 6412, 6413, 6414, 6415, 6416
6417, 6418, 6419, 6420, 6421, 6422, 6423, 6424, 6425, 6426, 6427, 6428, 6429, 6430, 6431, 6432
6433, 6434, 6435, 6436, 6437, 6438, 6439, 6440, 6441, 6442, 6443, 6444, 6445, 6446, 6447, 6448
6449, 6450, 6451, 6452

*Nset, nset=TOPLOAD

22,

** Section: Section-6-ADHESIVE1

*Solid Section, elset=ADHESIVE1, material=ADHESIVE(STANDARD)

,

** Section: Section-7-ADHESIVE3

*Solid Section, elset=ADHESIVE3, material=ADHESIVE(STANDARD)

,

** Section: Section-8-TOPBEAM

*Solid Section, elset=TOPBEAM, material=ALUMINIUM

,

** Section: Section-9-ADHESIVE2

*Solid Section, elset=ADHESIVE2, material=ADHESIVE(STANDARD)

,

*End Part

**

**

** ASSEMBLY

**

*Assembly, name=Assembly

**

*Instance, name=COHESIVE-MESH-1-1, part=COHESIVE-MESH-1

370., 0., 0.

*End Instance

**

*Instance, name=BOTTOMPART-1, part=BOTTOMPART

*End Instance

**

*Instance, name=TOPPART-1, part=TOPPART

*End Instance

**

*Nset, nset=Set-3, instance=TOPPART-1

21, 22, 25, 26, 28, 29, 31, 32, 696, 697, 698, 699, 700, 701, 722, 723

724, 725, 737, 738, 739, 740, 741, 742, 752, 753, 754, 755, 770, 771, 772, 773

774, 775, 776, 777, 778, 784, 785, 786, 787, 788, 789, 804, 805, 806, 807, 808

809, 810, 811, 812, 1029, 1030, 1031, 1032, 1033, 1034

*Nset, nset=Set-4, instance=BOTTOMPART-1

20, 23, 24, 27, 28, 31, 32, 33, 770, 771, 772, 773, 774, 775, 776, 777

778, 779, 794, 795, 796, 797, 798, 799, 806, 807, 808, 809, 824, 825, 826, 827

828, 829, 830, 831, 832, 842, 843, 844, 845, 846, 847, 864, 865, 866, 867, 868

869, 870, 871, 872, 1029, 1030, 1031, 1032, 1033, 1034

*Nset, nset=BOTTOMPART-1_BOTTOMPARTTIE_CNS_, internal, instance=BOTTOMPART-1

5, 8, 10, 11, 13, 97, 98, 99, 100, 101, 102, 103, 104, 105, 106, 107

108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123

124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139

140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155

156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171
172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187
188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203
204, 205, 206, 207, 208, 209, 210, 211, 212, 213, 214, 215, 216, 350, 351, 352
353, 354, 355, 356, 357, 358, 359, 360, 361, 362, 363, 364, 365, 366, 367, 368
369, 370, 371, 372, 373, 374, 375, 376, 377, 378, 379, 380, 381, 382, 383, 384
385, 386, 387, 388, 389, 390, 391, 392, 393, 394, 395, 396, 397, 398, 399, 400
401, 402, 403, 404, 405, 406, 407, 408, 409, 410, 411, 412, 882, 883, 884, 885
886, 887, 888, 889, 890, 891, 892, 893, 894, 895, 896, 897, 898, 899, 900, 901
902, 903, 904, 905, 906, 907, 908, 909, 910, 911, 912, 913, 914, 915, 916, 917
918, 919, 920, 921, 922, 923, 924, 925, 926, 927, 928, 929, 930, 931, 932, 933
934, 935, 936, 937, 938, 939, 940, 941, 942, 943, 944

*Nset, nset=TOPPART-1_TOPPARTTIE_CNS_, internal, instance=TOPPART-1

5, 8, 10, 11, 13, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127
128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143
144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159
160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175
176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191
192, 193, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207
208, 209, 210, 211, 212, 213, 214, 215, 216, 217, 218, 219, 220, 221, 222, 223
224, 225, 226, 227, 228, 229, 230, 231, 232, 233, 234, 235, 236, 350, 351, 352
353, 354, 355, 356, 357, 358, 359, 360, 361, 362, 363, 364, 365, 366, 367, 368
369, 370, 371, 372, 373, 374, 375, 376, 377, 378, 379, 380, 381, 382, 383, 384
385, 386, 387, 388, 389, 390, 391, 392, 393, 394, 395, 396, 397, 398, 399, 400
401, 402, 403, 404, 405, 406, 407, 408, 409, 410, 411, 412, 813, 814, 815, 816
817, 818, 819, 820, 821, 822, 823, 824, 825, 826, 827, 828, 829, 830, 831, 832
833, 834, 835, 836, 837, 838, 839, 840, 841, 842, 843, 844, 845, 846, 847, 848
849, 850, 851, 852, 853, 854, 855, 856, 857, 858, 859, 860, 861, 862, 863, 864
865, 866, 867, 868, 869, 870, 871, 872, 873, 874, 875

*Surface, type=NODE, name=BOTTOMPART-1_BOTTOMPARTTIE_CNS__CNS_, internal
BOTTOMPART-1_BOTTOMPARTTIE_CNS_, 1.

*Surface, type=NODE, name=TOPPART-1_TOPPARTTIE_CNS__CNS_, internal
TOPPART-1_TOPPARTTIE_CNS_, 1.

** Constraint: BOTTOMCOHESIVE-1

*Tie, name=BOTTOMCOHESIVE-1, adjust=yes

COHESIVE-MESH-1-1.Surf-2, BOTTOMPART-1_BOTTOMPARTTIE_CNS__CNS_

** Constraint: TOPCOHESIVE-1

*Tie, name=TOPCOHESIVE-1, adjust=yes

COHESIVE-MESH-1-1.Surf-1, TOPPART-1_TOPPARTTIE_CNS__CNS_

*End Assembly

**

** ELEMENT CONTROLS

**

*Section Controls, name=EC-1, ELEMENT DELETION=YES

1., 1., 1.

*Amplitude, name=Amp-1

0., 0., 1., 1.

**

** MATERIALS

**

*Material, name=ADHESIVE(STANDARD)

*Elastic

2900., 0.35

*Material, name=ALUMINIUM

*Elastic

70000., 0.3

*Material, name=COHESIVE

*Damage Initiation, criterion=QUADS

60.,60.,60.

*Damage Evolution, type=ENERGY

20.,

*Elastic, type=TRACTION

1e+06, 1e+06, 1e+06

** -----

**

** STEP: Step-1

**

*Step, name=Step-1, nlgeom=YES, inc=1000000

*Static, stabilize=0.0002, allsdtol=0.05, continue=NO

0.0001, 1., 1e-08, 0.01

**

** BOUNDARY CONDITIONS

**

** Name: BC-1 Type: Displacement/Rotation

*Boundary, amplitude=Amp-1

Set-3, 1, 1

Set-3, 2, 2, 25.

Set-3, 6, 6

** Name: BC-2 Type: Displacement/Rotation

*Boundary, amplitude=Amp-1

Set-4, 1, 1

Set-4, 2, 2, -25.

Set-4, 6, 6

**

** OUTPUT REQUESTS

**

*Restart, write, frequency=0

**

** FIELD OUTPUT: F-Output-1

**

*Output, field

*Node Output

CF, RF, U

*Element Output, directions=YES

LE, PE, PEEQ, PEMAG, S, STATUS

*Contact Output

CDISP, CSTRESS

**

** HISTORY OUTPUT: H-Output-3

**

*Output, history

*Node Output, nset=Set-4

RF1, RF2, RF3, RM1, RM2, RM3

**

** HISTORY OUTPUT: H-Output-1

**

*Output, history, frequency=1000

*Node Output, nset=BOTTOMPART-1.BOTTOMLOAD

RF1, RF2, RF3, RM1, RM2, RM3, U1, U2

U3, UR1, UR2, UR3

**

** HISTORY OUTPUT: H-Output-2

**

*Node Output, nset=TOPPART-1.TOPLOAD

RF1, RF2, RF3, RM1, RM2, RM3, U1, U2

U3, UR1, UR2, UR3

*End Step