

Hi everybody,

I modeled the suspension system of freight train which comprises of a sideframe, bolster, two friction wedges, wedge springs and bolster springs. I completed my model successfully when i applied a concentrated force of magnitude 500 (pointing downwards on the bolster) at the center of the bolster. Now when i am trying to apply a periodic amplitude in the load instead of ramp i cannot run my model successfully. I dont know what i am doing wrong. Is there any other way to apply a periodic loading or should i change the time period or time increment in the step when i apply a periodic amplitude? Anybody who has any idea about perioic loading or how to apply a periodic load please let me know where am i going wrong.!?

THIS IS THE INPUT FILE FOR MY MODEL WHICH WAS COMPLETED SUCCESSFULLY BEFORE APPLYING PERIODIC AMPLITUDE

*Heading

Run the wedge contact simulation

** Job name: Wedgecontactsimulation Model name: Suspension system of freight train

** Generated by: Abaqus/CAE 6.11-1

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

**

** PARTS

**

*Part, name=bolster

*Node

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7, 15., 20., 0.

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16,	15.,	20.,	10.
17,	20.,	20.,	10.
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23,	3.33333325,	20.,	20.
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239, 385, 386, 395, 394, 286, 287, 296, 295

240, 386, 387, 396, 395, 287, 288, 297, 296

*Nset, nset=Set-1, generate

1, 396, 1

*Elset, elset=Set-1, generate

1, 240, 1

*Nset, nset=_PickedSet4, internal, generate

1, 396, 1

*Elset, elset=_PickedSet4, internal, generate

1, 240, 1

** Section: Section-1

*Solid Section, elset=_PickedSet4, material="mild steel"

,

*End Part

**

*Part, name="left wedge"

*Node

1, -70., 20., 100.

2, -70., 20., 95.

3, -70., 20., 90.

4, -70., 20., 85.

5, -70., 20., 80.

6,	-70.,	20.,	75.
7,	-70.,	20.,	70.
8,	-70.,	20.,	65.
9,	-70.,	20.,	60.
10,	-70.,	20.,	55.
11,	-70.,	20.,	50.
12,	-70.,	20.,	45.
13,	-70.,	20.,	40.
14,	-70.,	20.,	35.
15,	-70.,	20.,	30.
16,	-70.,	20.,	25.
17,	-70.,	20.,	20.
18,	-70.,	20.,	15.
19,	-70.,	20.,	10.
20,	-70.,	20.,	5.
21,	-70.,	20.,	0.
22,	-65.,	20.,	100.
23,	-65.,	20.,	95.
24,	-65.,	20.,	90.
25,	-65.,	20.,	85.
26,	-65.,	20.,	80.
27,	-65.,	20.,	75.
28,	-65.,	20.,	70.
29,	-65.,	20.,	65.
30,	-65.,	20.,	60.

31,	-65.,	20.,	55.
32,	-65.,	20.,	50.
33,	-65.,	20.,	45.
34,	-65.,	20.,	40.
35,	-65.,	20.,	35.
36,	-65.,	20.,	30.
37,	-65.,	20.,	25.
38,	-65.,	20.,	20.
39,	-65.,	20.,	15.
40,	-65.,	20.,	10.
41,	-65.,	20.,	5.
42,	-65.,	20.,	0.
43,	-59.,	20.,	100.
44,	-59.,	20.,	95.
45,	-59.,	20.,	90.
46,	-59.,	20.,	85.
47,	-59.,	20.,	80.
48,	-59.,	20.,	75.
49,	-59.,	20.,	70.
50,	-59.,	20.,	65.
51,	-59.,	20.,	60.
52,	-59.,	20.,	55.
53,	-59.,	20.,	50.
54,	-59.,	20.,	45.
55,	-59.,	20.,	40.

56,	-59.,	20.,	35.
57,	-59.,	20.,	30.
58,	-59.,	20.,	25.
59,	-59.,	20.,	20.
60,	-59.,	20.,	15.
61,	-59.,	20.,	10.
62,	-59.,	20.,	5.
63,	-59.,	20.,	0.
64,	-53.,	20.,	100.
65,	-53.,	20.,	95.
66,	-53.,	20.,	90.
67,	-53.,	20.,	85.
68,	-53.,	20.,	80.
69,	-53.,	20.,	75.
70,	-53.,	20.,	70.
71,	-53.,	20.,	65.
72,	-53.,	20.,	60.
73,	-53.,	20.,	55.
74,	-53.,	20.,	50.
75,	-53.,	20.,	45.
76,	-53.,	20.,	40.
77,	-53.,	20.,	35.
78,	-53.,	20.,	30.
79,	-53.,	20.,	25.
80,	-53.,	20.,	20.

81,	-53.,	20.,	15.
82,	-53.,	20.,	10.
83,	-53.,	20.,	5.
84,	-53.,	20.,	0.
85,	-47.,	20.,	100.
86,	-47.,	20.,	95.
87,	-47.,	20.,	90.
88,	-47.,	20.,	85.
89,	-47.,	20.,	80.
90,	-47.,	20.,	75.
91,	-47.,	20.,	70.
92,	-47.,	20.,	65.
93,	-47.,	20.,	60.
94,	-47.,	20.,	55.
95,	-47.,	20.,	50.
96,	-47.,	20.,	45.
97,	-47.,	20.,	40.
98,	-47.,	20.,	35.
99,	-47.,	20.,	30.
100,	-47.,	20.,	25.
101,	-47.,	20.,	20.
102,	-47.,	20.,	15.
103,	-47.,	20.,	10.
104,	-47.,	20.,	5.
105,	-47.,	20.,	0.

106,	-41.,	20.,	100.
107,	-41.,	20.,	95.
108,	-41.,	20.,	90.
109,	-41.,	20.,	85.
110,	-41.,	20.,	80.
111,	-41.,	20.,	75.
112,	-41.,	20.,	70.
113,	-41.,	20.,	65.
114,	-41.,	20.,	60.
115,	-41.,	20.,	55.
116,	-41.,	20.,	50.
117,	-41.,	20.,	45.
118,	-41.,	20.,	40.
119,	-41.,	20.,	35.
120,	-41.,	20.,	30.
121,	-41.,	20.,	25.
122,	-41.,	20.,	20.
123,	-41.,	20.,	15.
124,	-41.,	20.,	10.
125,	-41.,	20.,	5.
126,	-41.,	20.,	0.
127,	-35.,	20.,	100.
128,	-35.,	20.,	95.
129,	-35.,	20.,	90.
130,	-35.,	20.,	85.

131,	-35.,	20.,	80.
132,	-35.,	20.,	75.
133,	-35.,	20.,	70.
134,	-35.,	20.,	65.
135,	-35.,	20.,	60.
136,	-35.,	20.,	55.
137,	-35.,	20.,	50.
138,	-35.,	20.,	45.
139,	-35.,	20.,	40.
140,	-35.,	20.,	35.
141,	-35.,	20.,	30.
142,	-35.,	20.,	25.
143,	-35.,	20.,	20.
144,	-35.,	20.,	15.
145,	-35.,	20.,	10.
146,	-35.,	20.,	5.
147,	-35.,	20.,	0.
148,	-30.,	20.,	100.
149,	-30.,	20.,	95.
150,	-30.,	20.,	90.
151,	-30.,	20.,	85.
152,	-30.,	20.,	80.
153,	-30.,	20.,	75.
154,	-30.,	20.,	70.
155,	-30.,	20.,	65.

156,	-30.,	20.,	60.
157,	-30.,	20.,	55.
158,	-30.,	20.,	50.
159,	-30.,	20.,	45.
160,	-30.,	20.,	40.
161,	-30.,	20.,	35.
162,	-30.,	20.,	30.
163,	-30.,	20.,	25.
164,	-30.,	20.,	20.
165,	-30.,	20.,	15.
166,	-30.,	20.,	10.
167,	-30.,	20.,	5.
168,	-30.,	20.,	0.
169,	-25.,	20.,	100.
170,	-25.,	20.,	95.
171,	-25.,	20.,	90.
172,	-25.,	20.,	85.
173,	-25.,	20.,	80.
174,	-25.,	20.,	75.
175,	-25.,	20.,	70.
176,	-25.,	20.,	65.
177,	-25.,	20.,	60.
178,	-25.,	20.,	55.
179,	-25.,	20.,	50.
180,	-25.,	20.,	45.

181,	-25.,	20.,	40.
182,	-25.,	20.,	35.
183,	-25.,	20.,	30.
184,	-25.,	20.,	25.
185,	-25.,	20.,	20.
186,	-25.,	20.,	15.
187,	-25.,	20.,	10.
188,	-25.,	20.,	5.
189,	-25.,	20.,	0.
190,	-70.,	25.,	100.
191,	-70.,	25.,	95.
192,	-70.,	25.,	90.
193,	-70.,	25.,	85.
194,	-70.,	25.,	80.
195,	-70.,	25.,	75.
196,	-70.,	25.,	70.
197,	-70.,	25.,	65.
198,	-70.,	25.,	60.
199,	-70.,	25.,	55.
200,	-70.,	25.,	50.
201,	-70.,	25.,	45.
202,	-70.,	25.,	40.
203,	-70.,	25.,	35.
204,	-70.,	25.,	30.
205,	-70.,	25.,	25.

206,	-70.,	25.,	20.
207,	-70.,	25.,	15.
208,	-70.,	25.,	10.
209,	-70.,	25.,	5.
210,	-70.,	25.,	0.
211,	-65.3545761,	25.,	100.
212,	-65.3545761,	25.,	95.
213,	-65.3545761,	25.,	90.
214,	-65.3545761,	25.,	85.
215,	-65.3545761,	25.,	80.
216,	-65.3545761,	25.,	75.
217,	-65.3545761,	25.,	70.
218,	-65.3545761,	25.,	65.
219,	-65.3545761,	25.,	60.
220,	-65.3545761,	25.,	55.
221,	-65.3545761,	25.,	50.
222,	-65.3545761,	25.,	45.
223,	-65.3545761,	25.,	40.
224,	-65.3545761,	25.,	35.
225,	-65.3545761,	25.,	30.
226,	-65.3545761,	25.,	25.
227,	-65.3545761,	25.,	20.
228,	-65.3545761,	25.,	15.
229,	-65.3545761,	25.,	10.
230,	-65.3545761,	25.,	5.

231, -65.3545761,	25.,	0.
232, -59.9091606,	25.,	100.
233, -59.9091606,	25.,	95.
234, -59.9091606,	25.,	90.
235, -59.9091606,	25.,	85.
236, -59.9091606,	25.,	80.
237, -59.9091606,	25.,	75.
238, -59.9091606,	25.,	70.
239, -59.9091606,	25.,	65.
240, -59.9091606,	25.,	60.
241, -59.9091606,	25.,	55.
242, -59.9091606,	25.,	50.
243, -59.9091606,	25.,	45.
244, -59.9091606,	25.,	40.
245, -59.9091606,	25.,	35.
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247, -59.9091606,	25.,	25.
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249, -59.9091606,	25.,	15.
250, -59.9091606,	25.,	10.
251, -59.9091606,	25.,	5.
252, -59.9091606,	25.,	0.
253, -54.4637375,	25.,	100.
254, -54.4637375,	25.,	95.
255, -54.4637375,	25.,	90.

256, -54.4637375,	25.,	85.
257, -54.4637375,	25.,	80.
258, -54.4637375,	25.,	75.
259, -54.4637375,	25.,	70.
260, -54.4637375,	25.,	65.
261, -54.4637375,	25.,	60.
262, -54.4637375,	25.,	55.
263, -54.4637375,	25.,	50.
264, -54.4637375,	25.,	45.
265, -54.4637375,	25.,	40.
266, -54.4637375,	25.,	35.
267, -54.4637375,	25.,	30.
268, -54.4637375,	25.,	25.
269, -54.4637375,	25.,	20.
270, -54.4637375,	25.,	15.
271, -54.4637375,	25.,	10.
272, -54.4637375,	25.,	5.
273, -54.4637375,	25.,	0.
274, -49.0183182,	25.,	100.
275, -49.0183182,	25.,	95.
276, -49.0183182,	25.,	90.
277, -49.0183182,	25.,	85.
278, -49.0183182,	25.,	80.
279, -49.0183182,	25.,	75.
280, -49.0183182,	25.,	70.

281, -49.0183182,	25.,	65.
282, -49.0183182,	25.,	60.
283, -49.0183182,	25.,	55.
284, -49.0183182,	25.,	50.
285, -49.0183182,	25.,	45.
286, -49.0183182,	25.,	40.
287, -49.0183182,	25.,	35.
288, -49.0183182,	25.,	30.
289, -49.0183182,	25.,	25.
290, -49.0183182,	25.,	20.
291, -49.0183182,	25.,	15.
292, -49.0183182,	25.,	10.
293, -49.0183182,	25.,	5.
294, -49.0183182,	25.,	0.
295, -43.5728951,	25.,	100.
296, -43.5728951,	25.,	95.
297, -43.5728951,	25.,	90.
298, -43.5728951,	25.,	85.
299, -43.5728951,	25.,	80.
300, -43.5728951,	25.,	75.
301, -43.5728951,	25.,	70.
302, -43.5728951,	25.,	65.
303, -43.5728951,	25.,	60.
304, -43.5728951,	25.,	55.
305, -43.5728951,	25.,	50.

306, -43.5728951,	25.,	45.
307, -43.5728951,	25.,	40.
308, -43.5728951,	25.,	35.
309, -43.5728951,	25.,	30.
310, -43.5728951,	25.,	25.
311, -43.5728951,	25.,	20.
312, -43.5728951,	25.,	15.
313, -43.5728951,	25.,	10.
314, -43.5728951,	25.,	5.
315, -43.5728951,	25.,	0.
316, -38.1274757,	25.,	100.
317, -38.1274757,	25.,	95.
318, -38.1274757,	25.,	90.
319, -38.1274757,	25.,	85.
320, -38.1274757,	25.,	80.
321, -38.1274757,	25.,	75.
322, -38.1274757,	25.,	70.
323, -38.1274757,	25.,	65.
324, -38.1274757,	25.,	60.
325, -38.1274757,	25.,	55.
326, -38.1274757,	25.,	50.
327, -38.1274757,	25.,	45.
328, -38.1274757,	25.,	40.
329, -38.1274757,	25.,	35.
330, -38.1274757,	25.,	30.

331, -38.1274757,	25.,	25.
332, -38.1274757,	25.,	20.
333, -38.1274757,	25.,	15.
334, -38.1274757,	25.,	10.
335, -38.1274757,	25.,	5.
336, -38.1274757,	25.,	0.
337, -33.4820557,	25.,	100.
338, -33.4820557,	25.,	95.
339, -33.4820557,	25.,	90.
340, -33.4820557,	25.,	85.
341, -33.4820557,	25.,	80.
342, -33.4820557,	25.,	75.
343, -33.4820557,	25.,	70.
344, -33.4820557,	25.,	65.
345, -33.4820557,	25.,	60.
346, -33.4820557,	25.,	55.
347, -33.4820557,	25.,	50.
348, -33.4820557,	25.,	45.
349, -33.4820557,	25.,	40.
350, -33.4820557,	25.,	35.
351, -33.4820557,	25.,	30.
352, -33.4820557,	25.,	25.
353, -33.4820557,	25.,	20.
354, -33.4820557,	25.,	15.
355, -33.4820557,	25.,	10.

356,	-33.4820557,	25.,	5.
357,	-33.4820557,	25.,	0.
358,	-28.8366356,	25.,	100.
359,	-28.8366356,	25.,	95.
360,	-28.8366356,	25.,	90.
361,	-28.8366356,	25.,	85.
362,	-28.8366356,	25.,	80.
363,	-28.8366356,	25.,	75.
364,	-28.8366356,	25.,	70.
365,	-28.8366356,	25.,	65.
366,	-28.8366356,	25.,	60.
367,	-28.8366356,	25.,	55.
368,	-28.8366356,	25.,	50.
369,	-28.8366356,	25.,	45.
370,	-28.8366356,	25.,	40.
371,	-28.8366356,	25.,	35.
372,	-28.8366356,	25.,	30.
373,	-28.8366356,	25.,	25.
374,	-28.8366356,	25.,	20.
375,	-28.8366356,	25.,	15.
376,	-28.8366356,	25.,	10.
377,	-28.8366356,	25.,	5.
378,	-28.8366356,	25.,	0.
379,	-70.,	30.,	100.
380,	-70.,	30.,	95.

381,	-70.,	30.,	90.
382,	-70.,	30.,	85.
383,	-70.,	30.,	80.
384,	-70.,	30.,	75.
385,	-70.,	30.,	70.
386,	-70.,	30.,	65.
387,	-70.,	30.,	60.
388,	-70.,	30.,	55.
389,	-70.,	30.,	50.
390,	-70.,	30.,	45.
391,	-70.,	30.,	40.
392,	-70.,	30.,	35.
393,	-70.,	30.,	30.
394,	-70.,	30.,	25.
395,	-70.,	30.,	20.
396,	-70.,	30.,	15.
397,	-70.,	30.,	10.
398,	-70.,	30.,	5.
399,	-70.,	30.,	0.
400,	-65.7091599,	30.,	100.
401,	-65.7091599,	30.,	95.
402,	-65.7091599,	30.,	90.
403,	-65.7091599,	30.,	85.
404,	-65.7091599,	30.,	80.
405,	-65.7091599,	30.,	75.

406, -65.7091599,	30.,	70.
407, -65.7091599,	30.,	65.
408, -65.7091599,	30.,	60.
409, -65.7091599,	30.,	55.
410, -65.7091599,	30.,	50.
411, -65.7091599,	30.,	45.
412, -65.7091599,	30.,	40.
413, -65.7091599,	30.,	35.
414, -65.7091599,	30.,	30.
415, -65.7091599,	30.,	25.
416, -65.7091599,	30.,	20.
417, -65.7091599,	30.,	15.
418, -65.7091599,	30.,	10.
419, -65.7091599,	30.,	5.
420, -65.7091599,	30.,	0.
421, -60.8183174,	30.,	100.
422, -60.8183174,	30.,	95.
423, -60.8183174,	30.,	90.
424, -60.8183174,	30.,	85.
425, -60.8183174,	30.,	80.
426, -60.8183174,	30.,	75.
427, -60.8183174,	30.,	70.
428, -60.8183174,	30.,	65.
429, -60.8183174,	30.,	60.
430, -60.8183174,	30.,	55.

431,	-60.8183174,	30.,	50.
432,	-60.8183174,	30.,	45.
433,	-60.8183174,	30.,	40.
434,	-60.8183174,	30.,	35.
435,	-60.8183174,	30.,	30.
436,	-60.8183174,	30.,	25.
437,	-60.8183174,	30.,	20.
438,	-60.8183174,	30.,	15.
439,	-60.8183174,	30.,	10.
440,	-60.8183174,	30.,	5.
441,	-60.8183174,	30.,	0.
442,	-55.927475,	30.,	100.
443,	-55.927475,	30.,	95.
444,	-55.927475,	30.,	90.
445,	-55.927475,	30.,	85.
446,	-55.927475,	30.,	80.
447,	-55.927475,	30.,	75.
448,	-55.927475,	30.,	70.
449,	-55.927475,	30.,	65.
450,	-55.927475,	30.,	60.
451,	-55.927475,	30.,	55.
452,	-55.927475,	30.,	50.
453,	-55.927475,	30.,	45.
454,	-55.927475,	30.,	40.
455,	-55.927475,	30.,	35.

456,	-55.927475,	30.,	30.
457,	-55.927475,	30.,	25.
458,	-55.927475,	30.,	20.
459,	-55.927475,	30.,	15.
460,	-55.927475,	30.,	10.
461,	-55.927475,	30.,	5.
462,	-55.927475,	30.,	0.
463,	-51.0366364,	30.,	100.
464,	-51.0366364,	30.,	95.
465,	-51.0366364,	30.,	90.
466,	-51.0366364,	30.,	85.
467,	-51.0366364,	30.,	80.
468,	-51.0366364,	30.,	75.
469,	-51.0366364,	30.,	70.
470,	-51.0366364,	30.,	65.
471,	-51.0366364,	30.,	60.
472,	-51.0366364,	30.,	55.
473,	-51.0366364,	30.,	50.
474,	-51.0366364,	30.,	45.
475,	-51.0366364,	30.,	40.
476,	-51.0366364,	30.,	35.
477,	-51.0366364,	30.,	30.
478,	-51.0366364,	30.,	25.
479,	-51.0366364,	30.,	20.
480,	-51.0366364,	30.,	15.

481, -51.0366364,	30.,	10.
482, -51.0366364,	30.,	5.
483, -51.0366364,	30.,	0.
484, -46.1457939,	30.,	100.
485, -46.1457939,	30.,	95.
486, -46.1457939,	30.,	90.
487, -46.1457939,	30.,	85.
488, -46.1457939,	30.,	80.
489, -46.1457939,	30.,	75.
490, -46.1457939,	30.,	70.
491, -46.1457939,	30.,	65.
492, -46.1457939,	30.,	60.
493, -46.1457939,	30.,	55.
494, -46.1457939,	30.,	50.
495, -46.1457939,	30.,	45.
496, -46.1457939,	30.,	40.
497, -46.1457939,	30.,	35.
498, -46.1457939,	30.,	30.
499, -46.1457939,	30.,	25.
500, -46.1457939,	30.,	20.
501, -46.1457939,	30.,	15.
502, -46.1457939,	30.,	10.
503, -46.1457939,	30.,	5.
504, -46.1457939,	30.,	0.
505, -41.2549515,	30.,	100.

506, -41.2549515,	30.,	95.
507, -41.2549515,	30.,	90.
508, -41.2549515,	30.,	85.
509, -41.2549515,	30.,	80.
510, -41.2549515,	30.,	75.
511, -41.2549515,	30.,	70.
512, -41.2549515,	30.,	65.
513, -41.2549515,	30.,	60.
514, -41.2549515,	30.,	55.
515, -41.2549515,	30.,	50.
516, -41.2549515,	30.,	45.
517, -41.2549515,	30.,	40.
518, -41.2549515,	30.,	35.
519, -41.2549515,	30.,	30.
520, -41.2549515,	30.,	25.
521, -41.2549515,	30.,	20.
522, -41.2549515,	30.,	15.
523, -41.2549515,	30.,	10.
524, -41.2549515,	30.,	5.
525, -41.2549515,	30.,	0.
526, -36.9641113,	30.,	100.
527, -36.9641113,	30.,	95.
528, -36.9641113,	30.,	90.
529, -36.9641113,	30.,	85.
530, -36.9641113,	30.,	80.

531, -36.9641113,	30.,	75.
532, -36.9641113,	30.,	70.
533, -36.9641113,	30.,	65.
534, -36.9641113,	30.,	60.
535, -36.9641113,	30.,	55.
536, -36.9641113,	30.,	50.
537, -36.9641113,	30.,	45.
538, -36.9641113,	30.,	40.
539, -36.9641113,	30.,	35.
540, -36.9641113,	30.,	30.
541, -36.9641113,	30.,	25.
542, -36.9641113,	30.,	20.
543, -36.9641113,	30.,	15.
544, -36.9641113,	30.,	10.
545, -36.9641113,	30.,	5.
546, -36.9641113,	30.,	0.
547, -32.6732712,	30.,	100.
548, -32.6732712,	30.,	95.
549, -32.6732712,	30.,	90.
550, -32.6732712,	30.,	85.
551, -32.6732712,	30.,	80.
552, -32.6732712,	30.,	75.
553, -32.6732712,	30.,	70.
554, -32.6732712,	30.,	65.
555, -32.6732712,	30.,	60.

556,	-32.6732712,	30.,	55.
557,	-32.6732712,	30.,	50.
558,	-32.6732712,	30.,	45.
559,	-32.6732712,	30.,	40.
560,	-32.6732712,	30.,	35.
561,	-32.6732712,	30.,	30.
562,	-32.6732712,	30.,	25.
563,	-32.6732712,	30.,	20.
564,	-32.6732712,	30.,	15.
565,	-32.6732712,	30.,	10.
566,	-32.6732712,	30.,	5.
567,	-32.6732712,	30.,	0.
568,	-70.,	35.,	100.
569,	-70.,	35.,	95.
570,	-70.,	35.,	90.
571,	-70.,	35.,	85.
572,	-70.,	35.,	80.
573,	-70.,	35.,	75.
574,	-70.,	35.,	70.
575,	-70.,	35.,	65.
576,	-70.,	35.,	60.
577,	-70.,	35.,	55.
578,	-70.,	35.,	50.
579,	-70.,	35.,	45.
580,	-70.,	35.,	40.

581,	-70.,	35.,	35.
582,	-70.,	35.,	30.
583,	-70.,	35.,	25.
584,	-70.,	35.,	20.
585,	-70.,	35.,	15.
586,	-70.,	35.,	10.
587,	-70.,	35.,	5.
588,	-70.,	35.,	0.
589,	-66.063736,	35.,	100.
590,	-66.063736,	35.,	95.
591,	-66.063736,	35.,	90.
592,	-66.063736,	35.,	85.
593,	-66.063736,	35.,	80.
594,	-66.063736,	35.,	75.
595,	-66.063736,	35.,	70.
596,	-66.063736,	35.,	65.
597,	-66.063736,	35.,	60.
598,	-66.063736,	35.,	55.
599,	-66.063736,	35.,	50.
600,	-66.063736,	35.,	45.
601,	-66.063736,	35.,	40.
602,	-66.063736,	35.,	35.
603,	-66.063736,	35.,	30.
604,	-66.063736,	35.,	25.
605,	-66.063736,	35.,	20.

606,	-66.063736,	35.,	15.
607,	-66.063736,	35.,	10.
608,	-66.063736,	35.,	5.
609,	-66.063736,	35.,	0.
610,	-61.727478,	35.,	100.
611,	-61.727478,	35.,	95.
612,	-61.727478,	35.,	90.
613,	-61.727478,	35.,	85.
614,	-61.727478,	35.,	80.
615,	-61.727478,	35.,	75.
616,	-61.727478,	35.,	70.
617,	-61.727478,	35.,	65.
618,	-61.727478,	35.,	60.
619,	-61.727478,	35.,	55.
620,	-61.727478,	35.,	50.
621,	-61.727478,	35.,	45.
622,	-61.727478,	35.,	40.
623,	-61.727478,	35.,	35.
624,	-61.727478,	35.,	30.
625,	-61.727478,	35.,	25.
626,	-61.727478,	35.,	20.
627,	-61.727478,	35.,	15.
628,	-61.727478,	35.,	10.
629,	-61.727478,	35.,	5.
630,	-61.727478,	35.,	0.

631, -57.3912125,	35.,	100.
632, -57.3912125,	35.,	95.
633, -57.3912125,	35.,	90.
634, -57.3912125,	35.,	85.
635, -57.3912125,	35.,	80.
636, -57.3912125,	35.,	75.
637, -57.3912125,	35.,	70.
638, -57.3912125,	35.,	65.
639, -57.3912125,	35.,	60.
640, -57.3912125,	35.,	55.
641, -57.3912125,	35.,	50.
642, -57.3912125,	35.,	45.
643, -57.3912125,	35.,	40.
644, -57.3912125,	35.,	35.
645, -57.3912125,	35.,	30.
646, -57.3912125,	35.,	25.
647, -57.3912125,	35.,	20.
648, -57.3912125,	35.,	15.
649, -57.3912125,	35.,	10.
650, -57.3912125,	35.,	5.
651, -57.3912125,	35.,	0.
652, -53.0549507,	35.,	100.
653, -53.0549507,	35.,	95.
654, -53.0549507,	35.,	90.
655, -53.0549507,	35.,	85.

656, -53.0549507,	35.,	80.
657, -53.0549507,	35.,	75.
658, -53.0549507,	35.,	70.
659, -53.0549507,	35.,	65.
660, -53.0549507,	35.,	60.
661, -53.0549507,	35.,	55.
662, -53.0549507,	35.,	50.
663, -53.0549507,	35.,	45.
664, -53.0549507,	35.,	40.
665, -53.0549507,	35.,	35.
666, -53.0549507,	35.,	30.
667, -53.0549507,	35.,	25.
668, -53.0549507,	35.,	20.
669, -53.0549507,	35.,	15.
670, -53.0549507,	35.,	10.
671, -53.0549507,	35.,	5.
672, -53.0549507,	35.,	0.
673, -48.718689,	35.,	100.
674, -48.718689,	35.,	95.
675, -48.718689,	35.,	90.
676, -48.718689,	35.,	85.
677, -48.718689,	35.,	80.
678, -48.718689,	35.,	75.
679, -48.718689,	35.,	70.
680, -48.718689,	35.,	65.

681,	-48.718689,	35.,	60.
682,	-48.718689,	35.,	55.
683,	-48.718689,	35.,	50.
684,	-48.718689,	35.,	45.
685,	-48.718689,	35.,	40.
686,	-48.718689,	35.,	35.
687,	-48.718689,	35.,	30.
688,	-48.718689,	35.,	25.
689,	-48.718689,	35.,	20.
690,	-48.718689,	35.,	15.
691,	-48.718689,	35.,	10.
692,	-48.718689,	35.,	5.
693,	-48.718689,	35.,	0.
694,	-44.3824272,	35.,	100.
695,	-44.3824272,	35.,	95.
696,	-44.3824272,	35.,	90.
697,	-44.3824272,	35.,	85.
698,	-44.3824272,	35.,	80.
699,	-44.3824272,	35.,	75.
700,	-44.3824272,	35.,	70.
701,	-44.3824272,	35.,	65.
702,	-44.3824272,	35.,	60.
703,	-44.3824272,	35.,	55.
704,	-44.3824272,	35.,	50.
705,	-44.3824272,	35.,	45.

706, -44.3824272,	35.,	40.
707, -44.3824272,	35.,	35.
708, -44.3824272,	35.,	30.
709, -44.3824272,	35.,	25.
710, -44.3824272,	35.,	20.
711, -44.3824272,	35.,	15.
712, -44.3824272,	35.,	10.
713, -44.3824272,	35.,	5.
714, -44.3824272,	35.,	0.
715, -40.446167,	35.,	100.
716, -40.446167,	35.,	95.
717, -40.446167,	35.,	90.
718, -40.446167,	35.,	85.
719, -40.446167,	35.,	80.
720, -40.446167,	35.,	75.
721, -40.446167,	35.,	70.
722, -40.446167,	35.,	65.
723, -40.446167,	35.,	60.
724, -40.446167,	35.,	55.
725, -40.446167,	35.,	50.
726, -40.446167,	35.,	45.
727, -40.446167,	35.,	40.
728, -40.446167,	35.,	35.
729, -40.446167,	35.,	30.
730, -40.446167,	35.,	25.

731,	-40.446167,	35.,	20.
732,	-40.446167,	35.,	15.
733,	-40.446167,	35.,	10.
734,	-40.446167,	35.,	5.
735,	-40.446167,	35.,	0.
736,	-36.509903,	35.,	100.
737,	-36.509903,	35.,	95.
738,	-36.509903,	35.,	90.
739,	-36.509903,	35.,	85.
740,	-36.509903,	35.,	80.
741,	-36.509903,	35.,	75.
742,	-36.509903,	35.,	70.
743,	-36.509903,	35.,	65.
744,	-36.509903,	35.,	60.
745,	-36.509903,	35.,	55.
746,	-36.509903,	35.,	50.
747,	-36.509903,	35.,	45.
748,	-36.509903,	35.,	40.
749,	-36.509903,	35.,	35.
750,	-36.509903,	35.,	30.
751,	-36.509903,	35.,	25.
752,	-36.509903,	35.,	20.
753,	-36.509903,	35.,	15.
754,	-36.509903,	35.,	10.
755,	-36.509903,	35.,	5.

756,	-36.509903,	35.,	0.
757,	-70.,	40.,	100.
758,	-70.,	40.,	95.
759,	-70.,	40.,	90.
760,	-70.,	40.,	85.
761,	-70.,	40.,	80.
762,	-70.,	40.,	75.
763,	-70.,	40.,	70.
764,	-70.,	40.,	65.
765,	-70.,	40.,	60.
766,	-70.,	40.,	55.
767,	-70.,	40.,	50.
768,	-70.,	40.,	45.
769,	-70.,	40.,	40.
770,	-70.,	40.,	35.
771,	-70.,	40.,	30.
772,	-70.,	40.,	25.
773,	-70.,	40.,	20.
774,	-70.,	40.,	15.
775,	-70.,	40.,	10.
776,	-70.,	40.,	5.
777,	-70.,	40.,	0.
778,	-66.4183197,	40.,	100.
779,	-66.4183197,	40.,	95.
780,	-66.4183197,	40.,	90.

781, -66.4183197,	40.,	85.
782, -66.4183197,	40.,	80.
783, -66.4183197,	40.,	75.
784, -66.4183197,	40.,	70.
785, -66.4183197,	40.,	65.
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788, -66.4183197,	40.,	50.
789, -66.4183197,	40.,	45.
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792, -66.4183197,	40.,	30.
793, -66.4183197,	40.,	25.
794, -66.4183197,	40.,	20.
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797, -66.4183197,	40.,	5.
798, -66.4183197,	40.,	0.
799, -62.6366348,	40.,	100.
800, -62.6366348,	40.,	95.
801, -62.6366348,	40.,	90.
802, -62.6366348,	40.,	85.
803, -62.6366348,	40.,	80.
804, -62.6366348,	40.,	75.
805, -62.6366348,	40.,	70.

806, -62.6366348,	40.,	65.
807, -62.6366348,	40.,	60.
808, -62.6366348,	40.,	55.
809, -62.6366348,	40.,	50.
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813, -62.6366348,	40.,	30.
814, -62.6366348,	40.,	25.
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816, -62.6366348,	40.,	15.
817, -62.6366348,	40.,	10.
818, -62.6366348,	40.,	5.
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821, -58.8549538,	40.,	95.
822, -58.8549538,	40.,	90.
823, -58.8549538,	40.,	85.
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838, -58.8549538,	40.,	10.
839, -58.8549538,	40.,	5.
840, -58.8549538,	40.,	0.
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842, -55.0732689,	40.,	95.
843, -55.0732689,	40.,	90.
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863, -51.2915878,	40.,	95.
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892,	-47.509903,	40.,	55.
893,	-47.509903,	40.,	50.
894,	-47.509903,	40.,	45.
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896,	-47.509903,	40.,	35.
897,	-47.509903,	40.,	30.
898,	-47.509903,	40.,	25.
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952,	-70.,	45.,	70.
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956,	-70.,	45.,	50.
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800, 1112, 1113, 1134, 1133, 923, 924, 945, 944

*Nset, nset=_PickedSet2, internal, generate

1, 1134, 1

*Elset, elset=_PickedSet2, internal, generate

1, 800, 1

** Section: Section-1

*Solid Section, elset=_PickedSet2, material="mild steel"

,

*End Part

**

*Part, name="right wedge"

*Node

1, 25., 20., 0.

2, 30., 20., 0.

3, 35., 20., 0.

4, 41., 20., 0.

5, 47., 20., 0.

6, 53., 20., 0.

7, 59., 20., 0.

8, 65., 20., 0.

9, 70., 20., 0.

10,	25.,	20.,	5.
11,	30.,	20.,	5.
12,	35.,	20.,	5.
13,	41.,	20.,	5.
14,	47.,	20.,	5.
15,	53.,	20.,	5.
16,	59.,	20.,	5.
17,	65.,	20.,	5.
18,	70.,	20.,	5.
19,	25.,	20.,	10.
20,	30.,	20.,	10.
21,	35.,	20.,	10.
22,	41.,	20.,	10.
23,	47.,	20.,	10.
24,	53.,	20.,	10.
25,	59.,	20.,	10.
26,	65.,	20.,	10.
27,	70.,	20.,	10.
28,	25.,	20.,	15.
29,	30.,	20.,	15.
30,	35.,	20.,	15.
31,	41.,	20.,	15.
32,	47.,	20.,	15.
33,	53.,	20.,	15.
34,	59.,	20.,	15.

35,	65.,	20.,	15.
36,	70.,	20.,	15.
37,	25.,	20.,	20.
38,	30.,	20.,	20.
39,	35.,	20.,	20.
40,	41.,	20.,	20.
41,	47.,	20.,	20.
42,	53.,	20.,	20.
43,	59.,	20.,	20.
44,	65.,	20.,	20.
45,	70.,	20.,	20.
46,	25.,	20.,	25.
47,	30.,	20.,	25.
48,	35.,	20.,	25.
49,	41.,	20.,	25.
50,	47.,	20.,	25.
51,	53.,	20.,	25.
52,	59.,	20.,	25.
53,	65.,	20.,	25.
54,	70.,	20.,	25.
55,	25.,	20.,	30.
56,	30.,	20.,	30.
57,	35.,	20.,	30.
58,	41.,	20.,	30.
59,	47.,	20.,	30.

60,	53.,	20.,	30.
61,	59.,	20.,	30.
62,	65.,	20.,	30.
63,	70.,	20.,	30.
64,	25.,	20.,	35.
65,	30.,	20.,	35.
66,	35.,	20.,	35.
67,	41.,	20.,	35.
68,	47.,	20.,	35.
69,	53.,	20.,	35.
70,	59.,	20.,	35.
71,	65.,	20.,	35.
72,	70.,	20.,	35.
73,	25.,	20.,	40.
74,	30.,	20.,	40.
75,	35.,	20.,	40.
76,	41.,	20.,	40.
77,	47.,	20.,	40.
78,	53.,	20.,	40.
79,	59.,	20.,	40.
80,	65.,	20.,	40.
81,	70.,	20.,	40.
82,	25.,	20.,	45.
83,	30.,	20.,	45.
84,	35.,	20.,	45.

85,	41.,	20.,	45.
86,	47.,	20.,	45.
87,	53.,	20.,	45.
88,	59.,	20.,	45.
89,	65.,	20.,	45.
90,	70.,	20.,	45.
91,	25.,	20.,	50.
92,	30.,	20.,	50.
93,	35.,	20.,	50.
94,	41.,	20.,	50.
95,	47.,	20.,	50.
96,	53.,	20.,	50.
97,	59.,	20.,	50.
98,	65.,	20.,	50.
99,	70.,	20.,	50.
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101,	30.,	20.,	55.
102,	35.,	20.,	55.
103,	41.,	20.,	55.
104,	47.,	20.,	55.
105,	53.,	20.,	55.
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108,	70.,	20.,	55.
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140,	47.,	20.,	75.
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171,	70.,	20.,	90.
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173,	30.,	20.,	95.
174,	35.,	20.,	95.
175,	41.,	20.,	95.
176,	47.,	20.,	95.
177,	53.,	20.,	95.
178,	59.,	20.,	95.
179,	65.,	20.,	95.
180,	70.,	20.,	95.
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*Nset, nset=_PickedSet2, internal, generate

1, 1323, 1

*Elset, elset=_PickedSet2, internal, generate

1, 960, 1

** Section: Section-1

*Solid Section, elset=_PickedSet2, material="mild steel"

,

*End Part

**

*Part, name=sideframe

*Node

1,	-75.,	0.,	0.
2,	-75.,	45.,	0.
3,	-70.,	45.,	0.
4,	-70.,	5.,	0.
5,	-65.,	5.,	0.
6,	-35.,	5.,	0.
7,	-20.,	5.,	0.
8,	-10.,	5.,	0.
9,	10.,	5.,	0.
10,	20.,	5.,	0.
11,	35.,	5.,	0.
12,	65.,	5.,	0.
13,	70.,	5.,	0.
14,	70.,	45.,	0.

15,	75.,	45.,	0.
16,	75.,	0.,	0.
17,	-75.,	6.42857122,	0.
18,	-75.,	12.8571424,	0.
19,	-75.,	19.2857151,	0.
20,	-75.,	25.7142849,	0.
21,	-75.,	32.1428566,	0.
22,	-75.,	38.5714302,	0.
23,	-70.,	37.,	0.
24,	-70.,	29.,	0.
25,	-70.,	21.,	0.
26,	-70.,	13.,	0.
27,	-57.5,	5.,	0.
28,	-50.,	5.,	0.
29,	-42.5,	5.,	0.
30,	-27.5,	5.,	0.
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32,	3.33333325,	5.,	0.
33,	27.5,	5.,	0.
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36,	57.5,	5.,	0.
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39,	70.,	29.,	0.

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44,	75.,	15.,	0.
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47,	-60.,	0.,	0.
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53,	-15.,	0.,	0.
54,	-7.5,	0.,	0.
55,	0.,	0.,	0.
56,	7.5,	0.,	0.
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59,	30.,	0.,	0.
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62,	52.5,	0.,	0.
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320,	7.5,	0.,	28.5714283
321,	15.,	0.,	28.5714283
322,	22.5,	0.,	28.5714283
323,	30.,	0.,	28.5714283
324,	37.5,	0.,	28.5714283
325,	45.,	0.,	28.5714283
326,	52.5,	0.,	28.5714283
327,	60.,	0.,	28.5714283
328,	67.5,	0.,	28.5714283
329,	-72.4415894,	11.4446716,	28.5714283
330,	-72.5594635,	7.24145317,	28.5714283
331,	-75.,	0.,	35.7142868
332,	-75.,	45.,	35.7142868
333,	-70.,	45.,	35.7142868
334,	-70.,	5.,	35.7142868
335,	-65.,	5.,	35.7142868
336,	-35.,	5.,	35.7142868
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369,	70.,	29.,	35.7142868
370,	70.,	37.,	35.7142868
371,	75.,	37.5,	35.7142868
372,	75.,	30.,	35.7142868
373,	75.,	22.5,	35.7142868
374,	75.,	15.,	35.7142868
375,	75.,	7.5,	35.7142868
376,	-67.5,	0.,	35.7142868
377,	-60.,	0.,	35.7142868
378,	-52.5,	0.,	35.7142868
379,	-45.,	0.,	35.7142868
380,	-37.5,	0.,	35.7142868
381,	-30.,	0.,	35.7142868
382,	-22.5,	0.,	35.7142868
383,	-15.,	0.,	35.7142868
384,	-7.5,	0.,	35.7142868
385,	0.,	0.,	35.7142868
386,	7.5,	0.,	35.7142868
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464,	-75.,	45.,	50.

465,	-70.,	45.,	50.
466,	-70.,	5.,	50.
467,	-65.,	5.,	50.
468,	-35.,	5.,	50.
469,	-20.,	5.,	50.
470,	-10.,	5.,	50.
471,	10.,	5.,	50.
472,	20.,	5.,	50.
473,	35.,	5.,	50.
474,	65.,	5.,	50.
475,	70.,	5.,	50.
476,	70.,	45.,	50.
477,	75.,	45.,	50.
478,	75.,	0.,	50.
479,	-75.,	6.42857122,	50.
480,	-75.,	12.8571424,	50.
481,	-75.,	19.2857151,	50.
482,	-75.,	25.7142849,	50.
483,	-75.,	32.1428566,	50.
484,	-75.,	38.5714302,	50.
485,	-70.,	37.,	50.
486,	-70.,	29.,	50.
487,	-70.,	21.,	50.
488,	-70.,	13.,	50.
489,	-57.5,	5.,	50.

490,	-50.,	5.,	50.
491,	-42.5,	5.,	50.
492,	-27.5,	5.,	50.
493,	-3.33333325,	5.,	50.
494,	3.33333325,	5.,	50.
495,	27.5,	5.,	50.
496,	42.5,	5.,	50.
497,	50.,	5.,	50.
498,	57.5,	5.,	50.
499,	70.,	13.,	50.
500,	70.,	21.,	50.
501,	70.,	29.,	50.
502,	70.,	37.,	50.
503,	75.,	37.5,	50.
504,	75.,	30.,	50.
505,	75.,	22.5,	50.
506,	75.,	15.,	50.
507,	75.,	7.5,	50.
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509,	-60.,	0.,	50.
510,	-52.5,	0.,	50.
511,	-45.,	0.,	50.
512,	-37.5,	0.,	50.
513,	-30.,	0.,	50.
514,	-22.5,	0.,	50.

515,	-15.,	0.,	50.
516,	-7.5,	0.,	50.
517,	0.,	0.,	50.
518,	7.5,	0.,	50.
519,	15.,	0.,	50.
520,	22.5,	0.,	50.
521,	30.,	0.,	50.
522,	37.5,	0.,	50.
523,	45.,	0.,	50.
524,	52.5,	0.,	50.
525,	60.,	0.,	50.
526,	67.5,	0.,	50.
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528,	-72.5594635,	7.24145317,	50.
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571,	75.,	22.5,	57.1428566
572,	75.,	15.,	57.1428566
573,	75.,	7.5,	57.1428566
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577,	-45.,	0.,	57.1428566
578,	-37.5,	0.,	57.1428566
579,	-30.,	0.,	57.1428566
580,	-22.5,	0.,	57.1428566
581,	-15.,	0.,	57.1428566
582,	-7.5,	0.,	57.1428566
583,	0.,	0.,	57.1428566
584,	7.5,	0.,	57.1428566
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586,	22.5,	0.,	57.1428566
587,	30.,	0.,	57.1428566
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646,	-22.5,	0.,	64.2857132
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648,	-7.5,	0.,	64.2857132
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667,	-20.,	5.,	71.4285736
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673,	70.,	5.,	71.4285736
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771,	75.,	7.5,	78.5714264
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776,	-37.5,	0.,	78.5714264
777,	-30.,	0.,	78.5714264
778,	-22.5,	0.,	78.5714264
779,	-15.,	0.,	78.5714264
780,	-7.5,	0.,	78.5714264
781,	0.,	0.,	78.5714264
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821,	-42.5,	5.,	85.7142868
822,	-27.5,	5.,	85.7142868
823,	-3.33333325,	5.,	85.7142868
824,	3.33333325,	5.,	85.7142868
825,	27.5,	5.,	85.7142868
826,	42.5,	5.,	85.7142868
827,	50.,	5.,	85.7142868
828,	57.5,	5.,	85.7142868
829,	70.,	13.,	85.7142868
830,	70.,	21.,	85.7142868
831,	70.,	29.,	85.7142868
832,	70.,	37.,	85.7142868
833,	75.,	37.5,	85.7142868
834,	75.,	30.,	85.7142868
835,	75.,	22.5,	85.7142868
836,	75.,	15.,	85.7142868
837,	75.,	7.5,	85.7142868
838,	-67.5,	0.,	85.7142868
839,	-60.,	0.,	85.7142868

840,	-52.5,	0.,	85.7142868
841,	-45.,	0.,	85.7142868
842,	-37.5,	0.,	85.7142868
843,	-30.,	0.,	85.7142868
844,	-22.5,	0.,	85.7142868
845,	-15.,	0.,	85.7142868
846,	-7.5,	0.,	85.7142868
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848,	7.5,	0.,	85.7142868
849,	15.,	0.,	85.7142868
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852,	37.5,	0.,	85.7142868
853,	45.,	0.,	85.7142868
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856,	67.5,	0.,	85.7142868
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858,	-72.5594635,	7.24145317,	85.7142868
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860,	-75.,	45.,	92.8571396
861,	-70.,	45.,	92.8571396
862,	-70.,	5.,	92.8571396
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864,	-35.,	5.,	92.8571396

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878, -75., 25.7142849, 92.8571396
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922,	67.5,	0.,	92.8571396
923,	-72.4415894,	11.4446716,	92.8571396
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929,	-65.,	5.,	100.
930,	-35.,	5.,	100.
931,	-20.,	5.,	100.
932,	-10.,	5.,	100.
933,	10.,	5.,	100.
934,	20.,	5.,	100.
935,	35.,	5.,	100.
936,	65.,	5.,	100.
937,	70.,	5.,	100.
938,	70.,	45.,	100.
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942,	-75.,	12.8571424,	100.
943,	-75.,	19.2857151,	100.
944,	-75.,	25.7142849,	100.
945,	-75.,	32.1428566,	100.
946,	-75.,	38.5714302,	100.
947,	-70.,	37.,	100.
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949,	-70.,	21.,	100.
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953,	-42.5,	5.,	100.
954,	-27.5,	5.,	100.
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957,	27.5,	5.,	100.
958,	42.5,	5.,	100.
959,	50.,	5.,	100.
960,	57.5,	5.,	100.
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962,	70.,	21.,	100.
963,	70.,	29.,	100.
964,	70.,	37.,	100.

965,	75.,	37.5,	100.
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967,	75.,	22.5,	100.
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969,	75.,	7.5,	100.
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971,	-60.,	0.,	100.
972,	-52.5,	0.,	100.
973,	-45.,	0.,	100.
974,	-37.5,	0.,	100.
975,	-30.,	0.,	100.
976,	-22.5,	0.,	100.
977,	-15.,	0.,	100.
978,	-7.5,	0.,	100.
979,	0.,	0.,	100.
980,	7.5,	0.,	100.
981,	15.,	0.,	100.
982,	22.5,	0.,	100.
983,	30.,	0.,	100.
984,	37.5,	0.,	100.
985,	45.,	0.,	100.
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281, 530, 550, 551, 531, 596, 616, 617, 597
282, 593, 554, 547, 546, 659, 620, 613, 612
283, 575, 576, 556, 555, 641, 642, 622, 621
284, 576, 577, 557, 556, 642, 643, 623, 622
285, 577, 578, 534, 557, 643, 644, 600, 623
286, 579, 580, 535, 558, 645, 646, 601, 624
287, 582, 583, 560, 559, 648, 649, 626, 625
288, 584, 585, 538, 537, 650, 651, 604, 603
289, 587, 588, 562, 539, 653, 654, 628, 605
290, 589, 590, 564, 563, 655, 656, 630, 629
291, 590, 591, 540, 564, 656, 657, 606, 630
292, 591, 592, 541, 540, 657, 658, 607, 606
293, 569, 568, 567, 570, 635, 634, 633, 636
294, 543, 542, 568, 569, 609, 608, 634, 635
295, 565, 572, 571, 566, 631, 638, 637, 632
296, 529, 532, 594, 545, 595, 598, 660, 611
297, 594, 593, 546, 545, 660, 659, 612, 611
298, 660, 598, 620, 659, 726, 664, 686, 725

299, 599, 598, 595, 640, 665, 664, 661, 706
300, 640, 641, 621, 599, 706, 707, 687, 665
301, 644, 645, 624, 600, 710, 711, 690, 666
302, 646, 647, 602, 601, 712, 713, 668, 667
303, 647, 648, 625, 602, 713, 714, 691, 668
304, 651, 652, 627, 604, 717, 718, 693, 670
305, 652, 653, 605, 627, 718, 719, 671, 693
306, 654, 655, 629, 628, 720, 721, 695, 694
307, 639, 607, 658, 610, 705, 673, 724, 676
308, 636, 633, 632, 637, 702, 699, 698, 703
309, 607, 639, 638, 631, 673, 705, 704, 697
310, 649, 650, 603, 626, 715, 716, 669, 692
311, 614, 613, 620, 619, 680, 679, 686, 685
312, 619, 618, 615, 614, 685, 684, 681, 680
313, 616, 615, 618, 617, 682, 681, 684, 683
314, 596, 616, 617, 597, 662, 682, 683, 663
315, 659, 620, 613, 612, 725, 686, 679, 678
316, 641, 642, 622, 621, 707, 708, 688, 687
317, 642, 643, 623, 622, 708, 709, 689, 688
318, 643, 644, 600, 623, 709, 710, 666, 689
319, 645, 646, 601, 624, 711, 712, 667, 690
320, 648, 649, 626, 625, 714, 715, 692, 691
321, 650, 651, 604, 603, 716, 717, 670, 669
322, 653, 654, 628, 605, 719, 720, 694, 671
323, 655, 656, 630, 629, 721, 722, 696, 695

324, 656, 657, 606, 630, 722, 723, 672, 696
325, 657, 658, 607, 606, 723, 724, 673, 672
326, 635, 634, 633, 636, 701, 700, 699, 702
327, 609, 608, 634, 635, 675, 674, 700, 701
328, 631, 638, 637, 632, 697, 704, 703, 698
329, 595, 598, 660, 611, 661, 664, 726, 677
330, 660, 659, 612, 611, 726, 725, 678, 677
331, 726, 664, 686, 725, 792, 730, 752, 791
332, 665, 664, 661, 706, 731, 730, 727, 772
333, 706, 707, 687, 665, 772, 773, 753, 731
334, 710, 711, 690, 666, 776, 777, 756, 732
335, 712, 713, 668, 667, 778, 779, 734, 733
336, 713, 714, 691, 668, 779, 780, 757, 734
337, 717, 718, 693, 670, 783, 784, 759, 736
338, 718, 719, 671, 693, 784, 785, 737, 759
339, 720, 721, 695, 694, 786, 787, 761, 760
340, 705, 673, 724, 676, 771, 739, 790, 742
341, 702, 699, 698, 703, 768, 765, 764, 769
342, 673, 705, 704, 697, 739, 771, 770, 763
343, 715, 716, 669, 692, 781, 782, 735, 758
344, 680, 679, 686, 685, 746, 745, 752, 751
345, 685, 684, 681, 680, 751, 750, 747, 746
346, 682, 681, 684, 683, 748, 747, 750, 749
347, 662, 682, 683, 663, 728, 748, 749, 729
348, 725, 686, 679, 678, 791, 752, 745, 744

349, 707, 708, 688, 687, 773, 774, 754, 753
350, 708, 709, 689, 688, 774, 775, 755, 754
351, 709, 710, 666, 689, 775, 776, 732, 755
352, 711, 712, 667, 690, 777, 778, 733, 756
353, 714, 715, 692, 691, 780, 781, 758, 757
354, 716, 717, 670, 669, 782, 783, 736, 735
355, 719, 720, 694, 671, 785, 786, 760, 737
356, 721, 722, 696, 695, 787, 788, 762, 761
357, 722, 723, 672, 696, 788, 789, 738, 762
358, 723, 724, 673, 672, 789, 790, 739, 738
359, 701, 700, 699, 702, 767, 766, 765, 768
360, 675, 674, 700, 701, 741, 740, 766, 767
361, 697, 704, 703, 698, 763, 770, 769, 764
362, 661, 664, 726, 677, 727, 730, 792, 743
363, 726, 725, 678, 677, 792, 791, 744, 743
364, 792, 730, 752, 791, 858, 796, 818, 857
365, 731, 730, 727, 772, 797, 796, 793, 838
366, 772, 773, 753, 731, 838, 839, 819, 797
367, 776, 777, 756, 732, 842, 843, 822, 798
368, 778, 779, 734, 733, 844, 845, 800, 799
369, 779, 780, 757, 734, 845, 846, 823, 800
370, 783, 784, 759, 736, 849, 850, 825, 802
371, 784, 785, 737, 759, 850, 851, 803, 825
372, 786, 787, 761, 760, 852, 853, 827, 826
373, 771, 739, 790, 742, 837, 805, 856, 808

374, 768, 765, 764, 769, 834, 831, 830, 835
375, 739, 771, 770, 763, 805, 837, 836, 829
376, 781, 782, 735, 758, 847, 848, 801, 824
377, 746, 745, 752, 751, 812, 811, 818, 817
378, 751, 750, 747, 746, 817, 816, 813, 812
379, 748, 747, 750, 749, 814, 813, 816, 815
380, 728, 748, 749, 729, 794, 814, 815, 795
381, 791, 752, 745, 744, 857, 818, 811, 810
382, 773, 774, 754, 753, 839, 840, 820, 819
383, 774, 775, 755, 754, 840, 841, 821, 820
384, 775, 776, 732, 755, 841, 842, 798, 821
385, 777, 778, 733, 756, 843, 844, 799, 822
386, 780, 781, 758, 757, 846, 847, 824, 823
387, 782, 783, 736, 735, 848, 849, 802, 801
388, 785, 786, 760, 737, 851, 852, 826, 803
389, 787, 788, 762, 761, 853, 854, 828, 827
390, 788, 789, 738, 762, 854, 855, 804, 828
391, 789, 790, 739, 738, 855, 856, 805, 804
392, 767, 766, 765, 768, 833, 832, 831, 834
393, 741, 740, 766, 767, 807, 806, 832, 833
394, 763, 770, 769, 764, 829, 836, 835, 830
395, 727, 730, 792, 743, 793, 796, 858, 809
396, 792, 791, 744, 743, 858, 857, 810, 809
397, 858, 796, 818, 857, 924, 862, 884, 923
398, 797, 796, 793, 838, 863, 862, 859, 904

399, 838, 839, 819, 797, 904, 905, 885, 863
400, 842, 843, 822, 798, 908, 909, 888, 864
401, 844, 845, 800, 799, 910, 911, 866, 865
402, 845, 846, 823, 800, 911, 912, 889, 866
403, 849, 850, 825, 802, 915, 916, 891, 868
404, 850, 851, 803, 825, 916, 917, 869, 891
405, 852, 853, 827, 826, 918, 919, 893, 892
406, 837, 805, 856, 808, 903, 871, 922, 874
407, 834, 831, 830, 835, 900, 897, 896, 901
408, 805, 837, 836, 829, 871, 903, 902, 895
409, 847, 848, 801, 824, 913, 914, 867, 890
410, 812, 811, 818, 817, 878, 877, 884, 883
411, 817, 816, 813, 812, 883, 882, 879, 878
412, 814, 813, 816, 815, 880, 879, 882, 881
413, 794, 814, 815, 795, 860, 880, 881, 861
414, 857, 818, 811, 810, 923, 884, 877, 876
415, 839, 840, 820, 819, 905, 906, 886, 885
416, 840, 841, 821, 820, 906, 907, 887, 886
417, 841, 842, 798, 821, 907, 908, 864, 887
418, 843, 844, 799, 822, 909, 910, 865, 888
419, 846, 847, 824, 823, 912, 913, 890, 889
420, 848, 849, 802, 801, 914, 915, 868, 867
421, 851, 852, 826, 803, 917, 918, 892, 869
422, 853, 854, 828, 827, 919, 920, 894, 893
423, 854, 855, 804, 828, 920, 921, 870, 894

424, 855, 856, 805, 804, 921, 922, 871, 870
425, 833, 832, 831, 834, 899, 898, 897, 900
426, 807, 806, 832, 833, 873, 872, 898, 899
427, 829, 836, 835, 830, 895, 902, 901, 896
428, 793, 796, 858, 809, 859, 862, 924, 875
429, 858, 857, 810, 809, 924, 923, 876, 875
430, 924, 862, 884, 923, 990, 928, 950, 989
431, 863, 862, 859, 904, 929, 928, 925, 970
432, 904, 905, 885, 863, 970, 971, 951, 929
433, 908, 909, 888, 864, 974, 975, 954, 930
434, 910, 911, 866, 865, 976, 977, 932, 931
435, 911, 912, 889, 866, 977, 978, 955, 932
436, 915, 916, 891, 868, 981, 982, 957, 934
437, 916, 917, 869, 891, 982, 983, 935, 957
438, 918, 919, 893, 892, 984, 985, 959, 958
439, 903, 871, 922, 874, 969, 937, 988, 940
440, 900, 897, 896, 901, 966, 963, 962, 967
441, 871, 903, 902, 895, 937, 969, 968, 961
442, 913, 914, 867, 890, 979, 980, 933, 956
443, 878, 877, 884, 883, 944, 943, 950, 949
444, 883, 882, 879, 878, 949, 948, 945, 944
445, 880, 879, 882, 881, 946, 945, 948, 947
446, 860, 880, 881, 861, 926, 946, 947, 927
447, 923, 884, 877, 876, 989, 950, 943, 942
448, 905, 906, 886, 885, 971, 972, 952, 951

449, 906, 907, 887, 886, 972, 973, 953, 952

450, 907, 908, 864, 887, 973, 974, 930, 953

451, 909, 910, 865, 888, 975, 976, 931, 954

452, 912, 913, 890, 889, 978, 979, 956, 955

453, 914, 915, 868, 867, 980, 981, 934, 933

454, 917, 918, 892, 869, 983, 984, 958, 935

455, 919, 920, 894, 893, 985, 986, 960, 959

456, 920, 921, 870, 894, 986, 987, 936, 960

457, 921, 922, 871, 870, 987, 988, 937, 936

458, 899, 898, 897, 900, 965, 964, 963, 966

459, 873, 872, 898, 899, 939, 938, 964, 965

460, 895, 902, 901, 896, 961, 968, 967, 962

461, 859, 862, 924, 875, 925, 928, 990, 941

462, 924, 923, 876, 875, 990, 989, 942, 941

*Nset, nset=_PickedSet2, internal, generate

1, 990, 1

*Elset, elset=_PickedSet2, internal, generate

1, 462, 1

** Section: Section-1

*Solid Section, elset=_PickedSet2, material="mild steel"

,

*End Part

**

**

** ASSEMBLY

**

*Assembly, name=Assembly

**

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

*End Instance

**

*Instance, name="right wedge-1", part="right wedge"

*End Instance

**

*Instance, name="left wedge-1", part="left wedge"

*End Instance

**

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

*End Instance

**

*Nset, nset=_PickedSet10, internal, instance=sideframe-1, generate

925, 990, 1

*Elset, elset=_PickedSet10, internal, instance=sideframe-1, generate

430, 462, 1

*Nset, nset=_PickedSet11, internal, instance=sideframe-1, generate

1, 66, 1

*Elset, elset=_PickedSet11, internal, instance=sideframe-1, generate

1, 33, 1

*Nset, nset=_PickedSet38, internal, instance=bolster-1

347,

*Elset, elset=_Sframe-Lwedge_S4, internal, instance=sideframe-1, generate
1, 430, 33

*Elset, elset=_Sframe-Lwedge_S5, internal, instance=sideframe-1
14, 16, 17, 47, 49, 50, 80, 82, 83, 113, 115, 116, 146, 148, 149, 179
181, 182, 212, 214, 215, 245, 247, 248, 278, 280, 281, 311, 313, 314, 344, 346
347, 377, 379, 380, 410, 412, 413, 443, 445, 446

*Elset, elset=_Sframe-Lwedge_S3, internal, instance=sideframe-1, generate
15, 444, 33

*Surface, type=ELEMENT, name=Sframe-Lwedge

_Sframe-Lwedge_S4, S4

_Sframe-Lwedge_S5, S5

_Sframe-Lwedge_S3, S3

*Elset, elset=_Lwedge-sideframe_S3, internal, instance="left wedge-1"

1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16
17, 18, 19, 20, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172
173, 174, 175, 176, 177, 178, 179, 180, 321, 322, 323, 324, 325, 326, 327, 328
329, 330, 331, 332, 333, 334, 335, 336, 337, 338, 339, 340, 481, 482, 483, 484
485, 486, 487, 488, 489, 490, 491, 492, 493, 494, 495, 496, 497, 498, 499, 500
641, 642, 643, 644, 645, 646, 647, 648, 649, 650, 651, 652, 653, 654, 655, 656
657, 658, 659, 660

*Surface, type=ELEMENT, name=Lwedge-sideframe

_Lwedge-sideframe_S3, S3

*Elset, elset=_Sframe-Rwedge_S4, internal, instance=sideframe-1

11, 29, 30, 44, 62, 63, 77, 95, 96, 110, 128, 129, 143, 161, 162, 176
194, 195, 209, 227, 228, 242, 260, 261, 275, 293, 294, 308, 326, 327, 341, 359

360, 374, 392, 393, 407, 425, 426, 440, 458, 459

*Elset, elset=_Sframe-Rwedge_S6, internal, instance=sideframe-1

12, 31, 45, 64, 78, 97, 111, 130, 144, 163, 177, 196, 210, 229, 243, 262

276, 295, 309, 328, 342, 361, 375, 394, 408, 427, 441, 460

*Surface, type=ELEMENT, name=Sframe-Rwedge

_Sframe-Rwedge_S4, S4

_Sframe-Rwedge_S6, S6

*Elset, elset=_Rwedge-Sframe_S4, internal, instance="right wedge-1", generate

8, 960, 8

*Surface, type=ELEMENT, name=Rwedge-Sframe

_Rwedge-Sframe_S4, S4

*Elset, elset=_Lwedge-Bolster_S5, internal, instance="left wedge-1"

141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156

157, 158, 159, 160, 301, 302, 303, 304, 305, 306, 307, 308, 309, 310, 311, 312

313, 314, 315, 316, 317, 318, 319, 320, 461, 462, 463, 464, 465, 466, 467, 468

469, 470, 471, 472, 473, 474, 475, 476, 477, 478, 479, 480, 621, 622, 623, 624

625, 626, 627, 628, 629, 630, 631, 632, 633, 634, 635, 636, 637, 638, 639, 640

781, 782, 783, 784, 785, 786, 787, 788, 789, 790, 791, 792, 793, 794, 795, 796

797, 798, 799, 800

*Surface, type=ELEMENT, name=Lwedge-Bolster

_Lwedge-Bolster_S5, S5

*Elset, elset=_Bolster-Lwedge_S6, internal, instance=bolster-1, generate

1, 233, 8

*Surface, type=ELEMENT, name=Bolster-Lwedge

_Bolster-Lwedge_S6, S6

*Elset, elset=_Rwedge-Bolster_S6, internal, instance="right wedge-1", generate
1, 953, 8

*Surface, type=ELEMENT, name=Rwedge-Bolster
_Rwedge-Bolster_S6, S6

*Elset, elset=_Bolster-Rwedge_S4, internal, instance=bolster-1, generate
8, 240, 8

*Surface, type=ELEMENT, name=Bolster-Rwedge
_Bolster-Rwedge_S4, S4

*Spring, elset=Springs/Dashpots-1-spring

2550.6

*Element, type=SpringA, elset=Springs/Dashpots-1-spring

1, sideframe-1.467, "left wedge-1".32

2, sideframe-1.468, "left wedge-1".137

3, sideframe-1.473, "right wedge-1".93

4, sideframe-1.474, "right wedge-1".98

*Spring, elset=Springs/Dashpots-2-spring

5101.2

*Element, type=SpringA, elset=Springs/Dashpots-2-spring

5, sideframe-1.469, bolster-1.47

6, sideframe-1.470, bolster-1.48

7, sideframe-1.471, bolster-1.51

8, sideframe-1.472, bolster-1.53

*End Assembly

**

** MATERIALS

**

*Material, name="mild steel"

*Density

7850.,

*Elastic

210., 0.3

**

** INTERACTION PROPERTIES

**

*Surface Interaction, name=Frictionless

1.,

*Friction

0.,

*Surface Interaction, name=frictional

1.,

*Friction, slip tolerance=0.005

0.45,

**

** BOUNDARY CONDITIONS

**

** Name: fix back of sideframe Type: Symmetry/Antisymmetry/Encastre

*Boundary

_PickedSet11, ENCASTRE

** Name: fix the sideframe Type: Symmetry/Antisymmetry/Encastre

*Boundary

_PickedSet10, ENCASTRE

**

** INTERACTIONS

**

** Interaction: interaction-1

*Contact Pair, interaction=frictional, type=SURFACE TO SURFACE

Lwedge-sideframe, Sframe-Lwedge

** Interaction: interaction-2

*Contact Pair, interaction=frictional, type=SURFACE TO SURFACE

Rwedge-Sframe, Sframe-Rwedge

** Interaction: interaction-3

*Contact Pair, interaction=frictional, type=SURFACE TO SURFACE

Lwedge-Bolster, Bolster-Lwedge

** Interaction: interaction-4

*Contact Pair, interaction=frictional, type=SURFACE TO SURFACE

Rwedge-Bolster, Bolster-Rwedge

** -----

**

** STEP: Make contact

**

*Step, name="Make contact", nlgeom=YES

Establish contact

*Static

0.1, 1., 1e-05, 1.

**

** OUTPUT REQUESTS

**

*Restart, write, frequency=0

**

** FIELD OUTPUT: F-Output-1

**

*Output, field, variable=PRESELECT

**

** HISTORY OUTPUT: H-Output-1

**

*Output, history, variable=PRESELECT

*End Step

** -----

**

** STEP: Apply load

**

*Step, name="Apply load", nlgeom=YES

Apply a load on the bolster

*Static

0.1, 1., 1e-05, 1.

**

** LOADS

**

** Name: Load-1 Type: Concentrated force

*Load

_PickedSet38, 2, -500.

**

** OUTPUT REQUESTS

**

*Restart, write, frequency=0

**

** FIELD OUTPUT: F-Output-1

**

*Output, field, variable=PRESELECT

**

** HISTORY OUTPUT: H-Output-1

**

*Output, history, variable=PRESELECT

*End Step