
diet A&W
ROOT BEER
MADE WITH AGED VANILLA
SALTER
KG LB
ON ZERO
PATENTED
DC 181
For Class 1 Duct

1
00:00:13,089 --> 00:00:09,910
okay so I'm just going to gradually

2
00:00:26,080 --> 00:00:13,099
increase the weight on this soda can 10

3
00:00:48,840 --> 00:00:26,090
on the scale 40 pounds already 50 60 70

4
00:00:56,380 --> 00:00:51,870
so here we've got the same soda cans

5
00:00:58,720 --> 00:00:56,390
they're all exactly the same this is the

6
00:01:03,160 --> 00:00:58,730
one that I just crushed with 130 pounds

7
00:01:06,910 --> 00:01:03,170
of weight and this is one of the soda

8
00:01:08,710 --> 00:01:06,920
cans where I've cut out the metal that

9
00:01:11,800 --> 00:01:08,720
makes up the actual support so this

10
00:01:15,760 --> 00:01:11,810
piece of metal here this piece was

11
00:01:19,270 --> 00:01:15,770
supporting 130 pounds before it suddenly

12
00:01:21,790 --> 00:01:19,280
collapsed so the question is if you take

13
00:01:24,460 --> 00:01:21,800

this exact same piece of metal and we

14
00:01:26,230 --> 00:01:24,470
just use it to support anything in a way

15
00:01:28,870 --> 00:01:26,240
where it's not structurally sound it's

16
00:01:30,820 --> 00:01:28,880
not being supported by by the sides and

17
00:01:33,640 --> 00:01:30,830
in the case of this cam it's kind of

18
00:01:36,609 --> 00:01:33,650
self-supporting if we just try to

19
00:01:39,999 --> 00:01:36,619
support it on this scale here how much

20
00:01:45,550 --> 00:01:40,009
weight can actually support as a piece

21
00:01:48,010 --> 00:01:45,560
of metal and and getting 8 ounces or

22
00:01:49,930 --> 00:01:48,020
eight ounces of support that before it

23
00:01:52,630 --> 00:01:49,940
battles and if I actually bow it

24
00:01:55,570 --> 00:01:52,640
slightly you'll see you actually get a

25
00:01:59,320 --> 00:01:55,580
bit less you get about it's supporting

26
00:02:03,100 --> 00:01:59,330
six ounces of way that's less than half

27
00:02:05,740 --> 00:02:03,110
a pound when when it's in its proper

28
00:02:08,350 --> 00:02:05,750
structural position like this and all

29
00:02:10,870 --> 00:02:08,360
braced by being in a perfect position

30
00:02:15,720 --> 00:02:10,880
brakes top and bottom it can actually

31
00:02:18,340 --> 00:02:15,730
support over 130 pounds so it's actually

32
00:02:21,430 --> 00:02:18,350
the supporting strength is reduced

33
00:02:24,759 --> 00:02:21,440
between this and this by a factor of

34
00:02:27,130 --> 00:02:24,769
about 200 so how does this explain the

35
00:02:30,130 --> 00:02:27,140
2.5 seconds of freefall in the World

36
00:02:31,090 --> 00:02:30,140
Trade Center 7 nothing if this top

37
00:02:32,470 --> 00:02:31,100
portion of the building the whole

38
00:02:33,970 --> 00:02:32,480

building is falling down

39
00:02:35,590 --> 00:02:33,980
you think this bottom portion would

40
00:02:37,479 --> 00:02:35,600
offer some resistance because you know

41
00:02:38,860 --> 00:02:37,489
it's strong enough to support the upper

42
00:02:41,560 --> 00:02:38,870
part of the building so you think it

43
00:02:44,680 --> 00:02:41,570
would slow it down however as we've just

44
00:02:46,660 --> 00:02:44,690
seen if you remove this structural

45
00:02:48,910 --> 00:02:46,670
support of the lower part of the

46
00:02:51,370 --> 00:02:48,920
building and we just have the steel of

47
00:02:54,670 --> 00:02:51,380
the exterior wall to get any support

48
00:02:56,470 --> 00:02:54,680
about less than 1/2 of 1% of its actual

49
00:02:59,259 --> 00:02:56,480
weight so what we're seeing

50
00:03:02,680 --> 00:02:59,269
in the World Trade Center seven collapse

51
00:03:05,979 --> 00:03:02,690
is not one one part of the building

52
00:03:07,809 --> 00:03:05,989
falling on an intact strong other part

53
00:03:10,180 --> 00:03:07,819
of the building it's the other part of

54
00:03:11,559 --> 00:03:10,190
the building falling on a type of

55
00:03:13,990 --> 00:03:11,569
building that has been structurally

56
00:03:15,220 --> 00:03:14,000
compromised and you can't see that

57
00:03:17,800 --> 00:03:15,230
building part of the building because

58
00:03:19,660 --> 00:03:17,810
it's behind some other buildings that

59
00:03:21,280 --> 00:03:19,670
are in front so for videos that are

60
00:03:23,140 --> 00:03:21,290
being shot so you only see this part of

61
00:03:24,970 --> 00:03:23,150
the building falling down and don't see

62
00:03:26,440 --> 00:03:24,980
this parts of the building Buckley so

63
00:03:29,410 --> 00:03:26,450

what you're actually going to be seeing

64
00:03:32,259 --> 00:03:29,420
is something like this the lower part of

65
00:03:33,789 --> 00:03:32,269
the building simply shuttles away and

66
00:03:35,559 --> 00:03:33,799
this is all just scale models it doesn't

67
00:03:38,199 --> 00:03:35,569
scale exactly but this is a class

68
00:03:40,809 --> 00:03:38,209
ability used to be able to support 130

69
00:03:43,360 --> 00:03:40,819
pounds native sports half a pound so

70
00:03:44,949 --> 00:03:43,370
it's offering less than half of one

71
00:03:47,199 --> 00:03:44,959
percent of its resistance it could be