Heat Time 00:01:41:00

1
00:00:05,329 --> 00:00:03,050
this is me heating up a quarter-inch

2
00:00:07,639 --> 00:00:05,339
piece of rebar on top of the rebar

3
00:00:09,650 --> 00:00:07,649
there's balanced a couple of cinder

4
00:00:13,820 --> 00:00:09,660
blocks or wrist blocks as we call them

5
00:00:16,609 --> 00:00:13,830
in the UK and they weigh about maybe 10

6
00:00:20,359 --> 00:00:16,619
15 pounds each 2030 pounds on top of

7
00:00:23,660 --> 00:00:20,369
this piece of rebar it took me it takes

8
00:00:25,670 --> 00:00:23,670
about three minutes I think for it to a

9
00:00:27,529 --> 00:00:25,680
start to buckle I measured the

10
00:00:30,830 --> 00:00:27,539
temperature that I can get with this

11
00:00:33,020 --> 00:00:30,840
torch and by directly heating a

12
00:00:35,360 --> 00:00:33,030
thermocouple which is the hot as you

13
00:00:37,670 --> 00:00:35,370

could possibly get it gets to about 700

14
00:00:40,700 --> 00:00:37,680
and something seven thirty seven forty

15
00:00:43,010 --> 00:00:40,710
the very hottest and actually heating a

16
00:00:45,830 --> 00:00:43,020
piece of thick steel relatively thick

17
00:00:47,569 --> 00:00:45,840
steel like this it doesn't really get

18
00:00:51,290 --> 00:00:47,579
over six hundred and fifty degrees C

19
00:00:56,060 --> 00:00:51,300
which is about 1,200 degrees Fahrenheit

20
00:00:58,910 --> 00:00:56,070
I focus the the torch mostly in one spot

21
00:01:01,310 --> 00:00:58,920
wave it around a little bit try to get a

22
00:01:05,030 --> 00:01:01,320
bit more of an area of weakness and at

23
00:01:07,550 --> 00:01:05,040
one point I I poked the hey I'm here I'm

24
00:01:10,010 --> 00:01:07,560
poking it with with the torch just to

25
00:01:12,289 --> 00:01:10,020
see if it's moving and it's still still

26
00:01:13,850 --> 00:01:12,299
still pretty solid doesn't it with long

27
00:01:17,840 --> 00:01:13,860
after that but you can actually start to

28
00:01:20,749 --> 00:01:17,850
see it moving now and if you look at the

29
00:01:23,899 --> 00:01:20,759
top you will see the block start to move

30
00:01:24,859 --> 00:01:23,909
over to the left which is can have a

31
00:01:27,260 --> 00:01:24,869
problem because the blocks not

32
00:01:29,210 --> 00:01:27,270
constrained there it goes so it took

33
00:01:30,890 --> 00:01:29,220
about two and a half minutes bit less