

1

00:00:00,000 --> 00:00:02,540

Anything that you're about to see us do at home.

2

00:00:02,540 --> 00:00:03,540

Ever.

3

00:00:07,040 --> 00:00:09,240

On this episode of MythBusters,

4

00:00:09,240 --> 00:00:12,240

it's a crimes and myth demeanor special.

5

00:00:12,240 --> 00:00:13,880

Look at that.

6

00:00:13,880 --> 00:00:17,580

As the team puts the latest security alarms to the test.

7

00:00:17,580 --> 00:00:20,720

Ha ha ha, it works.

8

00:00:20,720 --> 00:00:23,780

Tori gets down and dirty to try to fool an alarm

9

00:00:23,780 --> 00:00:25,220

triggered by temperature.

10

00:00:25,220 --> 00:00:27,100

Oh yeah.

11

00:00:27,120 --> 00:00:30,760

Adam and Jamie attempt to foil a fingerprint scanner.

12

00:00:30,760 --> 00:00:32,300

Yay.

13

00:00:32,300 --> 00:00:34,240

Then Carrie turns chicken.

14

00:00:34,240 --> 00:00:35,900

Don't try what you're about to see at home.

15

00:00:35,900 --> 00:00:38,640

To silence an alarm sensitive to sound.

16

00:00:38,640 --> 00:00:40,880

Ding, ding, ding.

17

00:00:40,880 --> 00:00:45,280

Finally, Jamie and Adam replicate a crime movie myth.

18

00:00:45,280 --> 00:00:49,280

Can water really be used to break into a safe?

19

00:00:49,280 --> 00:00:51,120

One.

20

00:00:51,120 --> 00:00:53,560

You are the MythBusters.

21

00:00:53,560 --> 00:00:54,860

Adam Savage.

22

00:00:54,860 --> 00:00:56,520

Answer all over my head, man.

23

00:00:56,540 --> 00:00:57,740

And Jamie Heinemann.

24

00:00:57,740 --> 00:01:01,380

Gets me all worked up just looking at it.

25

00:01:01,380 --> 00:01:04,420

Between them more than 30 years of special effects

26

00:01:04,420 --> 00:01:06,320

experience.

27

00:01:06,320 --> 00:01:07,160

That was heavy.

28

00:01:07,160 --> 00:01:09,800

Joining them, Grant Imahara.

29

00:01:09,800 --> 00:01:11,160

Go get him, boy.

30

00:01:11,160 --> 00:01:12,860

Tori Belleggi.

31

00:01:12,860 --> 00:01:13,800

Whoa.

32

00:01:13,800 --> 00:01:15,100

And Carrie Byron.

33

00:01:15,100 --> 00:01:16,460

That was crazy.

34

00:01:16,460 --> 00:01:19,840

They don't just tell the myths.

35

00:01:19,840 --> 00:01:21,640

They put them to the test.

36

00:01:26,520 --> 00:01:28,480

Crimes and myth-demeanors.

37

00:01:28,480 --> 00:01:29,780

What have we got there?

38

00:01:29,780 --> 00:01:31,460

Well, you remember a while back we actually

39

00:01:31,460 --> 00:01:33,420

did a whole bunch of myths associated

40

00:01:33,420 --> 00:01:36,200

with the crimes perpetrated in movies?

41

00:01:36,200 --> 00:01:37,260

Oh yeah.

42

00:01:37,260 --> 00:01:38,420

Even I got excited about that one.

43

00:01:38,420 --> 00:01:41,760

Yeah, actually that was one of my favorite myths ever.

44

00:01:41,760 --> 00:01:42,840

Mine too.

45

00:01:42,840 --> 00:01:45,740

In great Hollywood heists, the team constructed a course

46

00:01:45,740 --> 00:01:48,500

that had then armed with Hollywood style security

47

00:01:48,500 --> 00:01:49,700

devices.

48

00:01:49,700 --> 00:01:52,280

And they also had a set of cameras,

49

00:01:52,280 --> 00:01:55,080

which were used to capture the video.

50

00:01:55,100 --> 00:01:57,740

Security devices.

51

00:01:57,740 --> 00:02:00,780

From getting around laser beams.

52

00:02:00,780 --> 00:02:03,180

And picking open a safe.

53

00:02:03,180 --> 00:02:04,820

Got it.

54

00:02:04,820 --> 00:02:06,680

Hey.

55

00:02:06,680 --> 00:02:09,020

To climbing an air duct.

56

00:02:09,020 --> 00:02:13,180

No heist who done it was left untouched.

57

00:02:13,180 --> 00:02:13,700

So what?

58

00:02:13,700 --> 00:02:15,100

Are we doing more of that?

59

00:02:15,100 --> 00:02:15,800

Not exactly.

60

00:02:15,800 --> 00:02:19,000

Last time we were testing to see if we could beat some mythical,

61

00:02:19,000 --> 00:02:20,900

like, movie style alarm systems.

62

00:02:20,900 --> 00:02:23,700

This time we're going to try some real world alarm systems

63

00:02:23,720 --> 00:02:25,120

and see if we can beat those.

64

00:02:25,120 --> 00:02:27,860

And those systems are going to be an ultrasonic motion

65

00:02:27,860 --> 00:02:31,700

detector, a thermal alarm, and a fingerprint door lock.

66

00:02:31,700 --> 00:02:34,640

And we're going to install them in the original assault course.

67

00:02:34,640 --> 00:02:35,140

Great.

68

00:02:35,140 --> 00:02:36,340

That sounds cool.

69

00:02:36,340 --> 00:02:37,980

Wait, that's not all.

70

00:02:37,980 --> 00:02:40,580

This time we're going to have you blow up a safe

71

00:02:40,580 --> 00:02:42,420

without destroying what's inside.

72

00:02:42,420 --> 00:02:45,140

Well, let's get cracking.

73

00:02:45,140 --> 00:02:46,820

Let's get cracking?

74

00:02:46,820 --> 00:02:48,260

Sure.

75

00:02:48,260 --> 00:02:49,100

What?

76

00:02:49,100 --> 00:02:51,900

So the team has got three new alarm systems

77

00:02:51,900 --> 00:02:56,500

to overcome before a safe filled with water gets blown apart.

78

00:02:56,500 --> 00:03:00,900

But first up, it's time to point the finger at Grant,

79

00:03:00,900 --> 00:03:03,500

who's turned locksmith.

80

00:03:03,500 --> 00:03:06,460

He's removing the regular door lock

81

00:03:06,460 --> 00:03:09,740

and switching it for something much more sophisticated,

82

00:03:09,740 --> 00:03:12,220

a fingerprint scanner.

83

00:03:12,220 --> 00:03:15,220

Because all of us have different fingerprints,

84

00:03:15,220 --> 00:03:17,860

this lock, which scans human thumb prints,

85

00:03:17,860 --> 00:03:21,880

can be tailor made to only open to one person, which

86

00:03:21,940 --> 00:03:24,740

for this test is Grant.

87

00:03:24,740 --> 00:03:28,340

But fingerprint pattern isn't all it's reading.

88

00:03:28,340 --> 00:03:32,140

This fingerprint door lock incorporates a few other things

89

00:03:32,140 --> 00:03:34,660

that they call liveness sensing.

90

00:03:34,660 --> 00:03:39,780

And these include body temperature, pulse rate,

91

00:03:39,780 --> 00:03:42,620

galvanic skin response.

92

00:03:42,620 --> 00:03:46,860

All in all, the lock is pulsing with security devices.

93

00:03:46,860 --> 00:03:48,180

Here's how it works.

94

00:03:48,180 --> 00:03:50,100

So you hit pound, pound.

95

00:03:52,620 --> 00:03:53,620

Wow.

96

00:03:53,620 --> 00:03:55,620

Why don't you try it?

97

00:03:55,620 --> 00:03:56,620

Count down.

98

00:03:56,620 --> 00:04:00,620

Jamie gives the finger, but stays shut out.

99

00:04:00,620 --> 00:04:04,220

It's Grant's way or the highway.

100

00:04:04,220 --> 00:04:06,220

I have the master fingerprint.

101

00:04:06,220 --> 00:04:07,720

The master fingerprint.

102

00:04:07,720 --> 00:04:10,220

Aren't you special?

103

00:04:10,220 --> 00:04:12,700

If their specialty is breaking and entering,

104

00:04:12,700 --> 00:04:15,340

Adam and Jamie must first covertly obtain

105

00:04:15,340 --> 00:04:18,180

a copy of Grant's thumb print.

106

00:04:18,180 --> 00:04:21,180

And then convert it to a fingerprint.

107

00:04:21,180 --> 00:04:25,040

And then convert it into something that will open the door.

108

00:04:25,040 --> 00:04:29,760

Any initial thoughts, anyone?

109

00:04:29,760 --> 00:04:30,260

Anyone?

110

00:04:35,440 --> 00:04:37,280

It's not looking promising.

111

00:04:37,280 --> 00:04:41,760

And then Jamie plex out one of his more surreal ideas.

112

00:04:41,760 --> 00:04:45,480

I figure that we'll have some kind of a rubber thumb that

113

00:04:45,480 --> 00:04:50,080

is maybe hollow and attached to a turkey baster here,

114

00:04:50,080 --> 00:04:54,820

pumping away on the turkey baster to make it pulse.

115

00:04:54,820 --> 00:04:57,220

If Jamie thinks this isn't going to be easy,

116

00:04:57,220 --> 00:04:59,620

he's talking turkey.

117

00:04:59,620 --> 00:05:01,860

OK, off you go.

118

00:05:01,860 --> 00:05:03,660

We've contacted the manufacturer,

119

00:05:03,660 --> 00:05:07,340

and there are no reported instances of anyone ever

120

00:05:07,340 --> 00:05:09,460

beating this sensor.

121

00:05:09,460 --> 00:05:12,780

So the boys are really going to have their work cut out for them.

122

00:05:12,780 --> 00:05:15,660

Because it's hardly looking or finger-looking good,

123

00:05:15,660 --> 00:05:18,660

Adam and Jamie are going to start by hacking into something

124

00:05:18,660 --> 00:05:20,680

a little more straightforward.

125

00:05:20,680 --> 00:05:23,600

Trick is, it's going to ask you to put your thumb on and then

126

00:05:23,600 --> 00:05:26,200

take it off probably eight times.

127

00:05:26,200 --> 00:05:30,120

This computer supposedly uses a much more low-tech thumb

128

00:05:30,120 --> 00:05:30,880

scanner.

129

00:05:30,880 --> 00:05:34,400

So with Jamie's digit entered as the master print,

130

00:05:34,400 --> 00:05:36,640

finger enrollment complete, they're

131

00:05:36,640 --> 00:05:38,520

going to practice on this.

132

00:05:38,520 --> 00:05:40,440

And the first step is to see if it's

133

00:05:40,440 --> 00:05:44,800

even possible to lift someone's fingerprint in the first place.

134

00:05:44,800 --> 00:05:47,960

Oh, that looks beautiful.

135

00:05:47,980 --> 00:05:50,260

They try the classic dusting technique.

136

00:05:50,260 --> 00:05:53,940

That doesn't really look quite photographable, though.

137

00:05:53,940 --> 00:05:56,140

But it only roughly reveals the print.

138

00:05:56,140 --> 00:05:58,700

So for a clearer view, Jamie sniffs out

139

00:05:58,700 --> 00:06:00,500

another forensic favorite.

140

00:06:00,500 --> 00:06:04,980

Well, I'm going to put a thumb print right here,

141

00:06:04,980 --> 00:06:05,940

which I've done.

142

00:06:05,940 --> 00:06:07,820

I'm going to put it in this vacuum chamber.

143

00:06:07,820 --> 00:06:12,020

I'm going to put a little aluminum foil packet of super glue

144

00:06:12,020 --> 00:06:14,580

in there, turn on the vacuum, and hopefully we'll

145

00:06:14,580 --> 00:06:17,540

get fumes that will make this visible.

146

00:06:17,600 --> 00:06:20,040

The idea is that inside the vacuum,

147

00:06:20,040 --> 00:06:23,320

the super glue fumes will settle and stick to the grease

148

00:06:23,320 --> 00:06:27,080

on the fingerprint and leave the clean glass untouched.

149

00:06:27,080 --> 00:06:28,520

It's right there.

150

00:06:28,520 --> 00:06:31,600

I'm not sure that I see it any better than I did before.

151

00:06:31,600 --> 00:06:34,080

They then add the powder to the glued print,

152

00:06:34,080 --> 00:06:35,400

but will it stick?

153

00:06:35,400 --> 00:06:36,080

Oh, look at that.

154

00:06:36,080 --> 00:06:37,440

That's really clear.

155

00:06:37,440 --> 00:06:40,640

Much clearer than we were getting without the super glue.

156

00:06:40,640 --> 00:06:41,960

Yeah.

157

00:06:41,960 --> 00:06:44,960

With the print done and dusted, Adam scans it

158

00:06:44,980 --> 00:06:47,780

and then prints it out.

159

00:06:47,780 --> 00:06:51,700

And everything's ready for the most basic of tests.

160

00:06:51,700 --> 00:06:52,860

Scanning.

161

00:06:52,860 --> 00:06:54,300

Please wait.

162

00:06:54,300 --> 00:06:55,060

Hey, Adam.

163

00:06:55,060 --> 00:06:55,860

Yeah.

164

00:06:55,860 --> 00:06:58,580

I'm not able to get a clear enough print.

165

00:06:58,580 --> 00:07:01,300

Like, it's looking too muddy on the print.

166

00:07:01,300 --> 00:07:04,420

Their paper print is clear as mud.

167

00:07:04,420 --> 00:07:06,820

To beat even the low-tech computer,

168

00:07:06,820 --> 00:07:09,180

they'll need to improve their handiwork.

169

00:07:09,180 --> 00:07:10,660

Access denied.

170

00:07:10,660 --> 00:07:19,240

MUSIC

171

00:07:19,240 --> 00:07:21,280

While Adam and Jamie point the finger,

172

00:07:21,280 --> 00:07:24,160

the others are handling a different spectrum entirely.

173

00:07:24,160 --> 00:07:26,840

They're hot to trot with thermal motion,

174

00:07:26,840 --> 00:07:30,040

an alarm that's triggered by temperature.

175

00:07:30,040 --> 00:07:34,160

All people emit infrared energy in the form of heat.

176

00:07:34,160 --> 00:07:37,440

So what this does is it takes a room,

177

00:07:37,440 --> 00:07:39,760

it gets a snapshot of what the room is,

178

00:07:39,760 --> 00:07:44,260

and if it sees some large chunk of its picture

179

00:07:44,260 --> 00:07:48,100

having more infrared energy, it'll trip the alarm.

180

00:07:48,100 --> 00:07:49,820

Watch what happens with Tori.

181

00:07:49,820 --> 00:07:52,220

As soon as he enters the room, his body heat

182

00:07:52,220 --> 00:07:57,780

is picked up by the sensor, and the alarm starts to sizzle.

183

00:07:57,780 --> 00:07:59,740

This one's going to be tough to beat,

184

00:07:59,740 --> 00:08:04,460

but the team does have a secret weapon, a thermal camera.

185

00:08:04,460 --> 00:08:05,580

You ready to go?

186

00:08:05,580 --> 00:08:07,940

Get my thermal signature?

187

00:08:07,940 --> 00:08:08,380

Yep.

188

00:08:08,440 --> 00:08:10,600

So we're going to do the baseline first,

189

00:08:10,600 --> 00:08:14,400

and it'll be front, side, and then back.

190

00:08:14,400 --> 00:08:15,200

All right.

191

00:08:15,200 --> 00:08:18,840

The thermal camera also recognizes different temperatures,

192

00:08:18,840 --> 00:08:22,000

and it shows exactly why Tori triggered the sensor.

193

00:08:22,000 --> 00:08:24,040

OK, turn to the side.

194

00:08:24,040 --> 00:08:28,480

The skin on his hands and face are a glow at 98 degrees,

195

00:08:28,480 --> 00:08:30,400

but even his clothes are much hotter

196

00:08:30,400 --> 00:08:32,840

than the background blue 63.

197

00:08:32,840 --> 00:08:34,280

Now back.

198

00:08:34,280 --> 00:08:38,200

So right now, I'm seeing a lot of radiation from his neck

199

00:08:38,220 --> 00:08:39,860

and a little bit on his shoulder.

200

00:08:39,860 --> 00:08:42,460

To stand a chance of beating the alarm,

201

00:08:42,460 --> 00:08:45,060

they need to get Redneck Tori's output

202

00:08:45,060 --> 00:08:47,420

to match that of the blue room temperature,

203

00:08:47,420 --> 00:08:50,620

making him thermically invisible.

204

00:08:50,620 --> 00:08:51,340

That's cool.

205

00:08:51,340 --> 00:08:54,940

And first up, they're going to chill Tori with a CO<sub>2</sub>

206

00:08:54,940 --> 00:08:56,420

fire extinguisher.

207

00:08:56,420 --> 00:08:58,740

Carrie's not warming to this idea.

208

00:08:58,740 --> 00:09:00,500

I foresee two problems just to start

209

00:09:00,500 --> 00:09:03,540

with using the CO2 extinguisher to mask

210

00:09:03,540 --> 00:09:04,860

Tori's thermal signature.

211

00:09:04,860 --> 00:09:07,100

First of all, is getting consistent temperature

212

00:09:07,100 --> 00:09:09,280

over his entire body is going to be extremely difficult,

213

00:09:09,280 --> 00:09:12,280

being that it's just sort of a blast that comes at him.

214

00:09:12,280 --> 00:09:13,600

The second problem I see is the fact

215

00:09:13,600 --> 00:09:15,000

that he's going to heat it right back up,

216

00:09:15,000 --> 00:09:17,280

and he could be in the middle of the room when that happens.

217

00:09:17,280 --> 00:09:20,600

And the third is that it's dangerous.

218

00:09:20,600 --> 00:09:24,880

Do not spray your friends with CO2 fire extinguisher.

219

00:09:24,880 --> 00:09:26,160

It's not a good idea.

220

00:09:26,160 --> 00:09:28,240

Leave it to the experts.

221

00:09:28,240 --> 00:09:29,760

OK, ready?

222

00:09:29,760 --> 00:09:31,320

So possible frostbite?

223

00:09:31,320 --> 00:09:32,320

Let's do it.

224

00:09:32,320 --> 00:09:33,920

Hit him.

225

00:09:33,920 --> 00:09:36,400

Carrie gives Tori the cold shoulder

226

00:09:36,420 --> 00:09:39,260

as she lets fly with the cooling CO<sub>2</sub>,

227

00:09:39,260 --> 00:09:43,100

and almost immediately, his heat output plummets.

228

00:09:43,100 --> 00:09:43,600

Great.

229

00:09:43,600 --> 00:09:45,620

Go for it.

230

00:09:45,620 --> 00:09:47,380

OK, alarm is armed.

231

00:09:47,380 --> 00:09:49,780

With all the hot reds and yellows gone,

232

00:09:49,780 --> 00:09:52,700

will Tori still register on the thermal detector?

233

00:09:58,820 --> 00:10:00,860

So with this method busted, they

234

00:10:00,860 --> 00:10:04,340

need a new plan to come in from the cold.

235

00:10:04,360 --> 00:10:08,280

Later, it's always safe to assume there'll be a kaboom.

236

00:10:08,280 --> 00:10:09,280

Fire in the hole.

237

00:10:11,840 --> 00:10:12,760

But next.

238

00:10:12,760 --> 00:10:15,040

Coming up on Mythbusters, will mud

239

00:10:15,040 --> 00:10:16,640

beat a thermal motion sensor?

240

00:10:25,040 --> 00:10:26,400

Oh, look at this.

241

00:10:26,400 --> 00:10:29,840

It's CSI San Francisco as the Mythbusters

242

00:10:29,840 --> 00:10:31,880

try to pick a fingerprint lock.

243

00:10:31,880 --> 00:10:33,260

Oh, man.

244

00:10:33,260 --> 00:10:35,180

This is like the coolest myth ever.

245

00:10:38,060 --> 00:10:41,220

They've practiced with paper, but got nowhere.

246

00:10:41,220 --> 00:10:43,220

Access denied.

247

00:10:43,220 --> 00:10:46,460

It seems the computer can't read the flat surface.

248

00:10:46,460 --> 00:10:50,420

So now, with Jamie's print printed out on acetate,

249

00:10:50,420 --> 00:10:53,140

the Mythbusters are going 3D.

250

00:10:53,140 --> 00:10:54,660

All right, this is a process where

251

00:10:54,660 --> 00:10:56,180

we're going to etch these fingerprints

252

00:10:56,180 --> 00:10:59,100

onto a copper coated circuit board.

253

00:10:59,100 --> 00:11:02,960

And it involves making a clear acetate of the fingerprint,

254

00:11:02,960 --> 00:11:04,520

laying it over a circuit board that

255

00:11:04,520 --> 00:11:06,840

is coated with a photoreactive chemical.

256

00:11:06,840 --> 00:11:08,240

I will expose it to a light.

257

00:11:11,800 --> 00:11:13,960

And when I remove the acetate, I will wash away

258

00:11:13,960 --> 00:11:16,280

everything that hasn't been exposed.

259

00:11:16,280 --> 00:11:18,440

The exposure and washing treatment

260

00:11:18,440 --> 00:11:21,160

leaves the copper with an exact copy of what

261

00:11:21,160 --> 00:11:22,680

was on the acetate.

262

00:11:22,680 --> 00:11:26,640

So, oh, that looks really good.

263

00:11:26,640 --> 00:11:29,980

Then it's immersed in acid, which dissolves the copper,

264

00:11:29,980 --> 00:11:32,860

but leaves the black print, thereby creating

265

00:11:32,860 --> 00:11:37,100

a slightly raised 3D etch.

266

00:11:37,100 --> 00:11:39,380

I'm going to rub your finger around in a safe place

267

00:11:39,380 --> 00:11:41,900

and see if you can feel an edge.

268

00:11:41,900 --> 00:11:43,260

Oh, yeah.

269

00:11:43,260 --> 00:11:43,900

I can't.

270

00:11:43,900 --> 00:11:46,460

The last step is to take a casting of the etch

271

00:11:46,460 --> 00:11:49,300

with Ballistics gel, which has similar properties

272

00:11:49,300 --> 00:11:51,380

to human skin.

273

00:11:51,380 --> 00:11:52,860

Now we're talking.

274

00:11:52,860 --> 00:11:54,660

And with the gel dished up, they're

275

00:11:54,680 --> 00:11:58,440

all set to try Janie's print on the computer scanner.

276

00:11:58,440 --> 00:11:59,880

Let's go see whether it works.

277

00:12:05,720 --> 00:12:06,720

Access denied.

278

00:12:09,480 --> 00:12:11,080

Access denied.

279

00:12:11,080 --> 00:12:15,040

The problem is that the ridges aren't deep enough on this.

280

00:12:15,040 --> 00:12:19,960

I'm getting a pattern, but it's just not there.

281

00:12:19,960 --> 00:12:21,640

When you put your own thumb on it,

282

00:12:21,640 --> 00:12:23,880

you see a bunch of distinct lines.

283

00:12:23,900 --> 00:12:27,220

With this thing, we're seeing kind of a blob.

284

00:12:27,220 --> 00:12:30,260

The etch simply hasn't created a clear enough print

285

00:12:30,260 --> 00:12:35,020

to calm the computer, let alone Grant's superlock.

286

00:12:35,020 --> 00:12:35,900

That's not working.

287

00:12:35,900 --> 00:12:40,500

So I guess plan B would be to.

288

00:12:40,500 --> 00:12:43,220

While Jamie tries to figure out plan B,

289

00:12:43,220 --> 00:12:45,020

Carrie's pulling off the other part

290

00:12:45,020 --> 00:12:47,340

of this impossible mission, getting

291

00:12:47,340 --> 00:12:48,940

hold of Grant's thumb print.

292

00:12:48,940 --> 00:12:50,900

Grant doesn't think we can covertly get

293

00:12:50,900 --> 00:12:52,620

a hold of his fingerprint.

294

00:12:52,640 --> 00:12:54,840

He gets really suspicious every time Jamie or Adam comes over

295

00:12:54,840 --> 00:12:55,360

here.

296

00:12:55,360 --> 00:12:59,360

So I'm going to have him copy a stack of CDs.

297

00:12:59,360 --> 00:13:02,320

And hopefully, that way we can get a hold of his fingerprint.

298

00:13:02,320 --> 00:13:05,240

He's going to come to the store and even it's freaking me out.

299

00:13:05,240 --> 00:13:09,160

Carrie's turned double agent to try to snare Grant's thumb.

300

00:13:09,160 --> 00:13:12,840

And a CD case may be the perfect foil.

301

00:13:12,840 --> 00:13:15,000

And bingo, he takes the bait.

302

00:13:20,520 --> 00:13:22,240

Remember how you said we couldn't covertly

303

00:13:22,260 --> 00:13:25,460

get your fingerprint?

304

00:13:25,460 --> 00:13:29,300

Easy as pie, but Grant's not amused.

305

00:13:29,300 --> 00:13:31,100

Yes, I told the producer yesterday

306

00:13:31,100 --> 00:13:33,500

that it would be almost impossible to covertly

307

00:13:33,500 --> 00:13:34,700

get my fingerprint.

308

00:13:34,700 --> 00:13:36,620

Apparently, I was wrong.

309

00:13:36,620 --> 00:13:39,220

We're not expecting a double agent, were you?

310

00:13:39,220 --> 00:13:42,420

From our own team.

311

00:13:42,420 --> 00:13:44,340

With the master print under wraps,

312

00:13:44,340 --> 00:13:47,100

Jamie successfully dusts it off.

313

00:13:47,100 --> 00:13:48,500

Look at that.

314

00:13:48,500 --> 00:13:49,660

Scans it in.

315

00:13:49,660 --> 00:13:51,620

And when he prints it onto acetate,

316

00:13:51,640 --> 00:13:55,840

he has one of those Heinemann moments of genius.

317

00:13:55,840 --> 00:13:58,520

As you can see here, the prints that we were getting

318

00:13:58,520 --> 00:14:01,000

are all kind of jaggy looking.

319

00:14:01,000 --> 00:14:03,120

It's not real clean lines.

320

00:14:03,120 --> 00:14:09,320

So I realized that I can go back in this scale with a marker

321

00:14:09,320 --> 00:14:10,720

and clean up these jaggies.

322

00:14:10,720 --> 00:14:12,480

And then we can shrink it back down.

323

00:14:12,480 --> 00:14:15,200

And we'll retry our edge and see if that works.

324

00:14:15,200 --> 00:14:16,600

It's a fine line.

325

00:14:16,600 --> 00:14:19,440

But with both Jamie and Grant's prints cleaned up,

326

00:14:19,440 --> 00:14:23,020

the first impressions are that this might just work.

327

00:14:23,020 --> 00:14:24,860

Dude, I think that's perfect.

328

00:14:24,860 --> 00:14:27,660

With their hopes raised, it's back to the edge.

329

00:14:27,660 --> 00:14:30,380

But in case you're thinking of trying this at home,

330

00:14:30,380 --> 00:14:33,180

maybe we've edited out one crucial step.

331

00:14:33,180 --> 00:14:35,180

So sorry, but you can't.

332

00:14:35,180 --> 00:14:35,780

Jamie?

333

00:14:35,780 --> 00:14:36,180

Yeah.

334

00:14:36,180 --> 00:14:37,700

These are beautiful.

335

00:14:37,700 --> 00:14:38,200

Good.

336

00:14:38,200 --> 00:14:41,460

I think they're really, really good.

337

00:14:41,460 --> 00:14:43,500

Jamie makes new gel prints.

338

00:14:43,500 --> 00:14:46,660

And then it's all ready to test.

339

00:14:46,680 --> 00:14:50,200

This time, the computer doesn't reject it straight away.

340

00:14:50,200 --> 00:14:54,680

It reads it, reads it some more, and then access granted.

341

00:14:54,680 --> 00:14:55,680

Yay.

342

00:14:55,680 --> 00:14:56,640

We got it.

343

00:14:56,640 --> 00:14:57,240

Yes?

344

00:14:57,240 --> 00:14:57,740

Yes.

345

00:14:57,740 --> 00:14:58,880

Dude!

346

00:14:58,880 --> 00:15:00,240

You just made my day.

347

00:15:00,240 --> 00:15:01,160

Welcome, Jamie.

348

00:15:01,160 --> 00:15:02,160

Hey!

349

00:15:02,160 --> 00:15:03,160

Ha, ha, ha.

350

00:15:03,160 --> 00:15:04,400

That's how it works.

351

00:15:04,400 --> 00:15:05,160

Fantastic.

352

00:15:05,160 --> 00:15:06,040

That is awesome.

353

00:15:10,080 --> 00:15:12,320

Back with the temperature-sensitive sensor,

354

00:15:12,320 --> 00:15:15,360

chilling Tori with a CO2 fire extinguisher

355

00:15:15,380 --> 00:15:19,660

didn't make him thermically disappear.

356

00:15:19,660 --> 00:15:22,700

So now the team is diving headlong

357

00:15:22,700 --> 00:15:24,980

into a new tactic that might.

358

00:15:24,980 --> 00:15:27,780

Well, up next is a neoprene suit.

359

00:15:27,780 --> 00:15:32,100

And hopefully that will mask his thermal signature.

360

00:15:32,100 --> 00:15:35,260

The neoprene suit aims to tackle this myth

361

00:15:35,260 --> 00:15:36,380

in a different way.

362

00:15:36,380 --> 00:15:41,540

Wherever the neoprene crosses you, it's like it disappears.

363

00:15:41,540 --> 00:15:42,980

Like a ninja.

364

00:15:43,000 --> 00:15:45,360

Rather than alter Tori's temperature,

365

00:15:45,360 --> 00:15:48,320

the insulating wetsuit should prevent his body heat

366

00:15:48,320 --> 00:15:50,880

from escaping, meaning he won't register

367

00:15:50,880 --> 00:15:54,520

on this thermal camera or the sensor in the room.

368

00:15:54,520 --> 00:15:55,640

Whoa.

369

00:15:55,640 --> 00:15:57,560

That works great.

370

00:15:57,560 --> 00:16:00,160

Dude, you do look like a ninja.

371

00:16:00,160 --> 00:16:03,080

I think this is going to be my new outfit on a myth buster.

372

00:16:03,080 --> 00:16:06,080

Once Tori's covered up all the nooks and crannies,

373

00:16:06,080 --> 00:16:08,800

will the wetsuit sink or swim?

374

00:16:08,800 --> 00:16:11,280

All right, here I go.

375

00:16:12,140 --> 00:16:13,140

Ah!

376

00:16:15,780 --> 00:16:18,540

With the alarm ringing, Tori heads back to the test

377

00:16:18,540 --> 00:16:20,460

zone for a post mortem.

378

00:16:20,460 --> 00:16:23,340

When you first started, this suit was totally blue

379

00:16:23,340 --> 00:16:25,420

and blended into the background perfectly.

380

00:16:25,420 --> 00:16:27,820

But now I can totally see the outline.

381

00:16:27,820 --> 00:16:30,260

And the longer I stay in the suit,

382

00:16:30,260 --> 00:16:34,780

the more the heat from my body is going to transfer to the suit.

383

00:16:34,780 --> 00:16:38,260

So with the wetsuit sunk, what's next for this hothead?

384

00:16:38,260 --> 00:16:41,960

Well, in the M5's flower beds, Carrie and shop assistant

385

00:16:41,960 --> 00:16:46,240

Teri are trying to dig up the third possible solution.

386

00:16:46,240 --> 00:16:48,960

Well, in choosing methods to fool the thermal motion

387

00:16:48,960 --> 00:16:50,840

sensor, we cannot ignore some of the classics,

388

00:16:50,840 --> 00:16:53,340

such as one utilized by our great governor Arnold

389

00:16:53,340 --> 00:16:55,720

Schwarzenegger in the first Predator movies,

390

00:16:55,720 --> 00:16:58,600

where he slathered himself in mud in order

391

00:16:58,600 --> 00:17:01,800

to fool the thermal sensors of the Predator.

392

00:17:01,800 --> 00:17:03,600

All right, where do we get this mud?

393

00:17:03,600 --> 00:17:05,080

That's what I want to know.

394

00:17:05,080 --> 00:17:06,080

It is working.

395

00:17:06,080 --> 00:17:07,240

That's working really well.

396

00:17:07,240 --> 00:17:08,080

It's working?

397

00:17:08,100 --> 00:17:10,220

First impressions are encouraging.

398

00:17:10,220 --> 00:17:14,700

The mud body mask is masking Teri's thermal signature.

399

00:17:14,700 --> 00:17:17,460

He's slowly blending in with the background.

400

00:17:17,460 --> 00:17:20,500

Are you trying not to shove it in my ear canal?

401

00:17:20,500 --> 00:17:23,420

I feel like you should scoop it up and dump it on his head.

402

00:17:25,820 --> 00:17:28,180

Sounds like a great idea, Grant.

403

00:17:28,180 --> 00:17:30,220

They keep plastering him until he's

404

00:17:30,220 --> 00:17:33,100

got more dirt than a mud wrestler in a monsoon.

405

00:17:33,100 --> 00:17:34,500

I'm going in.

406

00:17:34,500 --> 00:17:35,620

Ready.

407

00:17:35,620 --> 00:17:36,500

Like that?

408

00:17:36,520 --> 00:17:37,020

Yes.

409

00:17:40,520 --> 00:17:44,040

Well, it's looking like the Predator myth is terminated.

410

00:17:44,040 --> 00:17:47,880

The mud, like the neoprene, has warmed up too fast,

411

00:17:47,880 --> 00:17:52,080

meaning that Teri's heat seeped through and soiled the sensor.

412

00:17:52,080 --> 00:17:56,000

And Teri spotted another problem.

413

00:17:56,000 --> 00:17:59,480

If I was trying to break into a building covered in mud,

414

00:17:59,480 --> 00:18:01,760

I think it'd be probably pretty easy for the police

415

00:18:01,760 --> 00:18:04,440

to find me, because they would just follow my tracks.

416

00:18:04,460 --> 00:18:08,460

For the mud, it's hasta la vista, baby.

417

00:18:08,460 --> 00:18:11,660

Still to come, Grant strips for science.

418

00:18:11,660 --> 00:18:13,740

Put your clothes back on.

419

00:18:13,740 --> 00:18:16,380

But next, it fits like a glove.

420

00:18:16,380 --> 00:18:18,660

Will the finger lock get foiled?

421

00:18:18,660 --> 00:18:19,940

Well, there's your problem.

422

00:18:26,940 --> 00:18:28,700

Back with the finger fiddlers.

423

00:18:28,700 --> 00:18:31,620

Adam and Jamie have just tasted success.

424

00:18:31,640 --> 00:18:34,000

Using a ballistics gel fingerprint,

425

00:18:34,000 --> 00:18:35,760

they beat the computer scanner.

426

00:18:35,760 --> 00:18:36,680

Welcome, Jamie.

427

00:18:36,680 --> 00:18:37,680

Hey.

428

00:18:37,680 --> 00:18:39,040

Ha, ha, ha, ha.

429

00:18:39,040 --> 00:18:39,880

So it works.

430

00:18:39,880 --> 00:18:42,760

So next up, it's Grant's fingerprint lock

431

00:18:42,760 --> 00:18:44,960

that has his thumb as the master.

432

00:18:44,960 --> 00:18:48,320

And that's not the only difference.

433

00:18:48,320 --> 00:18:50,360

Unlike the computer, this scanner

434

00:18:50,360 --> 00:18:52,800

doesn't just read the thumbprint pattern,

435

00:18:52,800 --> 00:18:57,480

but it also monitors pulse, sweat, temperature, and more.

436

00:18:57,480 --> 00:19:01,280

To rise to the challenge, Adam's getting hot under the collar.

437

00:19:01,280 --> 00:19:04,940

He's fetched the edge of Grant's covertly obtained print

438

00:19:04,940 --> 00:19:07,180

and has made a latex copy that he's

439

00:19:07,180 --> 00:19:11,820

going to plant straight onto his warm, sweaty, pulsing thumb.

440

00:19:11,820 --> 00:19:14,060

OK, so you guys ready?

441

00:19:14,060 --> 00:19:15,980

Yeah, we've been working on this for days.

442

00:19:15,980 --> 00:19:18,420

And I think we have a couple of things that might work.

443

00:19:18,420 --> 00:19:19,580

OK, well, I'll be here.

444

00:19:19,580 --> 00:19:20,500

All right.

445

00:19:20,500 --> 00:19:21,300

OK.

446

00:19:21,300 --> 00:19:23,740

Remember, according to the manufacturers,

447

00:19:23,740 --> 00:19:26,100

this lock has never been broken.

448

00:19:26,100 --> 00:19:26,500

All right.

449

00:19:26,500 --> 00:19:27,460

You first.

450

00:19:27,460 --> 00:19:28,820

OK.

451

00:19:28,820 --> 00:19:30,280

My patent did Emma Hart's thumb.

452

00:19:30,280 --> 00:19:30,780

OK.

453

00:19:30,780 --> 00:19:31,280

OK.

454

00:19:31,280 --> 00:19:31,780

OK.

455

00:19:36,280 --> 00:19:38,240

But it's a bad start.

456

00:19:38,240 --> 00:19:42,400

Adam resets and tries again, but nothing.

457

00:19:42,400 --> 00:19:45,320

With this technique dribbling towards busted,

458

00:19:45,320 --> 00:19:48,280

Adam tries licking the latex.

459

00:19:48,280 --> 00:19:48,880

Hey!

460

00:19:48,880 --> 00:19:50,120

And he's in.

461

00:19:50,120 --> 00:19:54,760

He has set off the next alarm, but the finger's been foiled.

462

00:19:54,760 --> 00:19:56,960

Adam, can you let the alarm work, Sam?

463

00:19:56,960 --> 00:19:58,440

No way.

464

00:19:59,060 --> 00:20:02,260

That is latex glued to my thumb, peeled off

465

00:20:02,260 --> 00:20:03,460

a printed circuit board.

466

00:20:03,460 --> 00:20:08,420

As far as we know, this is a world first here on Mythbusters.

467

00:20:08,420 --> 00:20:11,460

According to the manufacturer, that fingerprint door lock

468

00:20:11,460 --> 00:20:13,700

has never been beat.

469

00:20:13,700 --> 00:20:15,700

But they're not stopping there.

470

00:20:15,700 --> 00:20:16,700

Well, that's one down.

471

00:20:16,700 --> 00:20:19,180

Shall we try all of our other techniques?

472

00:20:19,180 --> 00:20:22,900

Next up, it's Jamie, who's made a regular ballistics gel

473

00:20:22,900 --> 00:20:24,460

print of Grant's thumb.

474

00:20:24,460 --> 00:20:26,260

And guess what?

475

00:20:26,260 --> 00:20:26,740

Yay!

476

00:20:26,740 --> 00:20:27,740

Hey!

477

00:20:28,040 --> 00:20:30,840

Nicely done!

478

00:20:30,840 --> 00:20:32,320

That's two for two!

479

00:20:32,320 --> 00:20:34,640

No!

480

00:20:34,640 --> 00:20:37,280

At this point, the one we bought for the computer

481

00:20:37,280 --> 00:20:39,320

is a lot harder to break than this one.

482

00:20:39,320 --> 00:20:40,240

Yeah.

483

00:20:40,240 --> 00:20:43,000

Well, I said we move on to the copy paper now.

484

00:20:43,000 --> 00:20:44,960

With everything they do working,

485

00:20:44,960 --> 00:20:48,760

the team goes for broke by trying the photocopy of Grant's

486

00:20:48,760 --> 00:20:49,400

print.

487

00:20:49,400 --> 00:20:53,080

No warmth and no pulse, just a licked piece of paper.

488

00:20:53,980 --> 00:20:56,460

Ha ha ha ha!

489

00:20:56,460 --> 00:20:57,460

This is dope!

490

00:20:57,460 --> 00:20:59,460

What is this?

491

00:20:59,460 --> 00:21:00,860

Oh, there's your problem.

492

00:21:00,860 --> 00:21:02,980

Oh, no!

493

00:21:02,980 --> 00:21:03,660

Yeah, you know what?

494

00:21:03,660 --> 00:21:06,220

The manufacturer states that this is a world's first,

495

00:21:06,220 --> 00:21:07,820

that no one's ever beaten the system.

496

00:21:07,820 --> 00:21:11,220

But I mean, we just did it with three different methods

497

00:21:11,220 --> 00:21:13,300

in less than 10 minutes.

498

00:21:13,300 --> 00:21:15,620

Actually, Adam, it took over three days

499

00:21:15,620 --> 00:21:17,580

of working your fingers to the bone.

500

00:21:17,580 --> 00:21:22,060

But sure, eventually, you beat it hands down.

501

00:21:22,080 --> 00:21:25,880

So the myth that fingerprint locks can't be foiled is busted.

502

00:21:29,880 --> 00:21:34,320

Tory got down and dirty to beat a thermal motion alarm.

503

00:21:34,320 --> 00:21:37,320

Oh, yeah!

504

00:21:37,320 --> 00:21:39,200

It's totally worth it.

505

00:21:39,200 --> 00:21:41,600

With a zero success rate so far,

506

00:21:41,600 --> 00:21:43,600

Carrie's had a brain wave.

507

00:21:43,600 --> 00:21:46,440

You can pump heat into a room and bring the temperature

508

00:21:46,440 --> 00:21:48,760

of the room up to skin temperature.

509

00:21:48,760 --> 00:21:50,440

And then the person walking through the room

510

00:21:50,440 --> 00:21:53,660

can be completely undetected by the thermal motion sensor.

511

00:21:53,660 --> 00:21:56,340

Up to now, they've needed to mask the body's thermal

512

00:21:56,340 --> 00:22:01,060

signature because humans are hotter than room temperature.

513

00:22:01,060 --> 00:22:03,940

OK, opening the gas.

514

00:22:03,940 --> 00:22:06,260

But by increasing that room temperature

515

00:22:06,260 --> 00:22:09,060

through the ceiling vent to 98 degrees,

516

00:22:09,060 --> 00:22:12,860

Grant should be able to drop right in.

517

00:22:12,860 --> 00:22:13,900

But there's a problem.

518

00:22:17,020 --> 00:22:20,140

OK, well, what's happening inside the room,

519

00:22:20,160 --> 00:22:22,640

and you can see this on the infrared camera,

520

00:22:22,640 --> 00:22:27,440

is a huge hot stream just flowing right past it,

521

00:22:27,440 --> 00:22:31,160

dumping into the room and setting off the sensor.

522

00:22:31,160 --> 00:22:34,520

So for take two, they bring the heater down to ground level

523

00:22:34,520 --> 00:22:35,960

and have it set to low.

524

00:22:35,960 --> 00:22:37,920

But they're not the only changes.

525

00:22:37,920 --> 00:22:41,320

As a definitive test of this method,

526

00:22:41,320 --> 00:22:43,400

there's really only one way to do it.

527

00:22:43,400 --> 00:22:46,720

And that is to enter the room commando style.

528

00:22:46,740 --> 00:22:52,460

And by commando style, I mean naked or close to it.

529

00:22:52,460 --> 00:22:53,460

That's right, ladies.

530

00:22:53,460 --> 00:22:56,940

It's your lucky day as Grant strips for science.

531

00:22:56,940 --> 00:22:59,580

He reckons that while the room will get to human body

532

00:22:59,580 --> 00:23:02,580

temperature, his clothing won't.

533

00:23:02,580 --> 00:23:06,420

The only way for him to emit exactly 98 degrees,

534

00:23:06,420 --> 00:23:08,940

sadly, is to strip to his boxers.

535

00:23:08,940 --> 00:23:12,740

All right, Grant, we're at 96 degrees.

536

00:23:13,240 --> 00:23:17,240

Grant crawls into position, waits for those extra two

537

00:23:17,240 --> 00:23:22,240

degrees, and then, sets off the alarm.

538

00:23:22,240 --> 00:23:26,240

It seems that this sensor is just too sensitive.

539

00:23:26,240 --> 00:23:29,240

Even a near naked Grant can't sneak past.

540

00:23:29,240 --> 00:23:31,740

Well, next up is the pane of glass.

541

00:23:31,740 --> 00:23:35,040

And the science behind it is that visible light can pass

542

00:23:35,040 --> 00:23:38,740

easily through, but infrared is mostly blocked.

543

00:23:38,740 --> 00:23:41,740

And since this sensor is looking at the light,

544

00:23:41,740 --> 00:23:44,240

this sensor is looking at infrared energy,

545

00:23:44,240 --> 00:23:46,540

that's a very good chance of masking

546

00:23:46,540 --> 00:23:48,740

Tory's body heat signature.

547

00:23:48,740 --> 00:23:53,240

In theory, the thick glass should finally crack this alarm.

548

00:23:53,240 --> 00:23:54,740

That's cool.

549

00:23:54,740 --> 00:23:57,240

That is totally blocking your infrared.

550

00:23:57,240 --> 00:23:58,240

Hold it in front of your face.

551

00:23:58,240 --> 00:23:59,240

Yeah.

552

00:23:59,240 --> 00:24:00,240

Wow.

553

00:24:00,240 --> 00:24:01,740

Walk towards the camera with it.

554

00:24:01,740 --> 00:24:03,740

The glass works like a charm.

555

00:24:03,740 --> 00:24:08,240

Everything it covers is thermically invisible.

556

00:24:08,240 --> 00:24:10,740

Well, the big pane of glass worked great,

557

00:24:10,740 --> 00:24:14,240

but the only problem is carrying a big pane of glass

558

00:24:14,240 --> 00:24:16,740

through a duct or wherever you're trying to break in

559

00:24:16,740 --> 00:24:18,740

probably wouldn't be very practical.

560

00:24:18,740 --> 00:24:23,240

So what I propose is we try a different approach.

561

00:24:23,240 --> 00:24:26,240

Because walking up to the alarm with glass in hand

562

00:24:26,240 --> 00:24:29,740

isn't really realistic, Grant's building a special

563

00:24:29,740 --> 00:24:31,240

glass holding clamp.

564

00:24:31,240 --> 00:24:32,740

All right, we're going to time this one,

565

00:24:32,740 --> 00:24:34,240

and I'm starting it now.

566

00:24:36,240 --> 00:24:39,240

He'll use the clamp to drop a frame of glass

567

00:24:39,240 --> 00:24:41,240

over the sensor through the ceiling vent,

568

00:24:41,240 --> 00:24:44,240

but it ain't that clear cut.

569

00:24:44,240 --> 00:24:47,240

It looks like they're having trouble getting the angle

570

00:24:47,240 --> 00:24:51,240

on the sensor, getting the arm down into position

571

00:24:51,240 --> 00:24:53,740

to actually put the frame on the sensor.

572

00:24:53,740 --> 00:24:58,240

With Grant unable to contort to the angle of the dangle,

573

00:24:58,240 --> 00:25:01,740

Carrie tries her luck instead.

574

00:25:01,740 --> 00:25:04,240

That's looking good.

575

00:25:04,240 --> 00:25:06,240

Nice work.

576

00:25:06,240 --> 00:25:09,240

Carrie was able to hook the frame over the sensor,

577

00:25:09,240 --> 00:25:12,240

and they are now entering the room,

578

00:25:12,240 --> 00:25:15,240

and that was under two minutes.

579

00:25:17,240 --> 00:25:21,240

At last, they're in, in true heist style.

580

00:25:22,240 --> 00:25:25,240

So the myth that thermal motion alarms are unbeatable

581

00:25:25,240 --> 00:25:27,240

is busted.

582

00:25:27,240 --> 00:25:32,240

Later, will Carrie ghost her way past the sonar alarm?

583

00:25:32,240 --> 00:25:34,240

Room taken away!

584

00:25:34,240 --> 00:25:38,240

But next up, the heat is on at Safe Cracking HQ.

585

00:25:38,240 --> 00:25:40,240

It's hot in here.

586

00:25:44,240 --> 00:25:47,240

Please, don't try anything that you're about to see us do

587

00:25:47,240 --> 00:25:49,240

at home, ever.

588

00:25:53,240 --> 00:25:55,240

In crimes and myth demeanors,

589

00:25:55,240 --> 00:25:59,240

Adam and Jamie are about to blow us safe out of the water.

590

00:25:59,240 --> 00:26:01,240

Water is safe. What's this about?

591

00:26:01,240 --> 00:26:03,240

We get to blow up. A safe.

592

00:26:03,240 --> 00:26:06,240

But this is not any old safe.

593

00:26:06,240 --> 00:26:08,240

This is actually a safe with one of the most advanced

594

00:26:08,240 --> 00:26:10,240

anti-theft devices ever put into a safe.

595

00:26:10,240 --> 00:26:13,240

It's called a glass re-locker.

596

00:26:13,240 --> 00:26:16,240

And what it is, is a pain of breakable glass

597

00:26:16,240 --> 00:26:19,240

within the safe itself, that if broken,

598

00:26:19,240 --> 00:26:22,240

activates locks that make the door impenetrable.

599

00:26:22,240 --> 00:26:24,240

Check this out.

600

00:26:24,240 --> 00:26:27,240

A glass re-locker is the Safe Cracker's nemesis.

601

00:26:27,240 --> 00:26:30,240

Inside the safe door sits a fragile sheet of glass

602

00:26:30,240 --> 00:26:33,240

that's rigged up to a series of bolts and locks.

603

00:26:33,240 --> 00:26:36,240

If a Safe Cracker causes this glass to break

604

00:26:36,240 --> 00:26:39,240

or even just vibrate, then the bolts are triggered

605

00:26:39,240 --> 00:26:42,240

and the safe locks up for good.

606

00:26:42,240 --> 00:26:46,240

But apparently, there is a way around it.

607

00:26:46,240 --> 00:26:50,240

And it's a technique illustrated perfectly in the movie,

608

00:26:50,240 --> 00:26:53,240

The Score. This blacked-out burglar

609

00:26:53,240 --> 00:26:56,240

first carefully melts a hole in the top,

610

00:26:56,240 --> 00:26:58,240

where there isn't any glass.

611

00:26:58,240 --> 00:27:01,240

Then he fills the whole thing to the brim with water

612

00:27:01,240 --> 00:27:04,240

before dropping in a depth charge.

613

00:27:06,240 --> 00:27:08,240

The water helps maximize the shockwave,

614

00:27:08,240 --> 00:27:12,240

so the door, complete with re-locker, blows clean off.

615

00:27:12,240 --> 00:27:16,240

But would this water bomb really work?

616

00:27:16,240 --> 00:27:18,240

So we're not just going to blow up this safe.

617

00:27:18,240 --> 00:27:20,240

This is all about technique.

618

00:27:20,240 --> 00:27:23,240

Absolutely. I want to follow precisely the technique

619

00:27:23,240 --> 00:27:26,240

outlined in the film to see if using water

620

00:27:26,240 --> 00:27:28,240

is just a movie myth,

621

00:27:28,240 --> 00:27:31,240

or if they've actually based their plot in science fact.

622

00:27:31,240 --> 00:27:35,240

Well, to kick off this myth, Grant shoots on the Internet

623

00:27:35,240 --> 00:27:38,240

to try to score the cinematic safe.

624

00:27:38,240 --> 00:27:40,240

Well, we've been looking for a safe

625

00:27:40,240 --> 00:27:42,240

just like the one that they use in the movie.

626

00:27:42,240 --> 00:27:46,240

The one that we found is very similar, but much larger.

627

00:27:46,240 --> 00:27:49,240

It's six feet tall. The wall is eight inches thick

628

00:27:49,240 --> 00:27:51,240

and it weighs 3,000 pounds.

629

00:27:51,240 --> 00:27:54,240

But the most important thing is that it has a glass re-locker,

630

00:27:54,240 --> 00:27:56,240

which is what they use in the movie,

631

00:27:56,240 --> 00:27:59,240

and the thing that makes it very hard to crack.

632

00:27:59,240 --> 00:28:01,240

It's a simple recipe.

633

00:28:01,240 --> 00:28:03,240

Take one safe with glass re-locker,

634

00:28:03,240 --> 00:28:07,240

add some water and explosives, and mix in a bunker.

635

00:28:07,240 --> 00:28:09,240

MythBusters production and research team

636

00:28:09,240 --> 00:28:11,240

has found us another phenomenal location

637

00:28:11,240 --> 00:28:13,240

to do things you're generally not allowed to do.

638

00:28:13,240 --> 00:28:16,240

It is a South San Francisco water quality control plant.

639

00:28:16,240 --> 00:28:18,240

In other words, it's a sewage plant.

640

00:28:18,240 --> 00:28:20,240

And on any other day, this trough I'm standing in

641

00:28:20,240 --> 00:28:22,240

would be filled with poo.

642

00:28:22,240 --> 00:28:25,240

But today, we get to blow a safe up in it.

643

00:28:25,240 --> 00:28:28,240

And to stop this myth going down the toilet,

644

00:28:28,240 --> 00:28:30,240

they're being helped by explosives expert

645

00:28:30,240 --> 00:28:33,240

and retired FBI agent Frank Doyle.

646

00:28:33,240 --> 00:28:37,240

Frank's a true honorary MythBuster.

647

00:28:37,240 --> 00:28:40,240

Be it turning trousers torpedo,

648

00:28:40,240 --> 00:28:44,240

a spot of painting and detonating,

649

00:28:44,240 --> 00:28:48,240

or even something a little more concrete.

650

00:28:48,240 --> 00:28:51,240

Frank's always the man with the bang.

651

00:28:51,240 --> 00:28:54,240

But before he lights the fuse on this myth,

652

00:28:54,240 --> 00:28:57,240

the boys want to check out the glass re-locker.

653

00:28:57,240 --> 00:28:59,240

Remember, it's this sheet of glass

654

00:28:59,240 --> 00:29:03,240

that, if smashed, causes the safe to shut up for good.

655

00:29:03,240 --> 00:29:06,240

That's the... that's it.

656

00:29:06,240 --> 00:29:08,240

That's all there is.

657

00:29:08,240 --> 00:29:10,240

That's the glass re-locker? Wow.

658

00:29:10,240 --> 00:29:12,240

I thought it was like a whole thing.

659

00:29:12,240 --> 00:29:14,240

You couldn't drill anywhere in here.

660

00:29:14,240 --> 00:29:16,240

Adam, like the graphics guy,

661

00:29:16,240 --> 00:29:19,240

assumed that the glass would cover the whole of the door.

662

00:29:19,240 --> 00:29:22,240

Instead, it's much smaller.

663

00:29:22,240 --> 00:29:24,240

But size isn't everything.

664

00:29:24,240 --> 00:29:26,240

Despite its appearance,

665

00:29:26,240 --> 00:29:28,240

this glass is incredibly sensitive

666

00:29:28,240 --> 00:29:30,240

to even the slightest vibration.

667

00:29:30,240 --> 00:29:33,240

So beating it will be tough.

668

00:29:33,240 --> 00:29:37,240

This is the prize.

669

00:29:37,240 --> 00:29:39,240

Also, we've got some money.

670

00:29:39,240 --> 00:29:41,240

With the booty added,

671

00:29:41,240 --> 00:29:44,240

the boys are ready to try to bypass this super seal

672

00:29:44,240 --> 00:29:46,240

like the madman in the movie.

673

00:29:46,240 --> 00:29:48,240

And there are five key steps.

674

00:29:48,240 --> 00:29:50,240

This technique requires step one.

675

00:29:50,240 --> 00:29:52,240

We've got a borehole in the top of the safe

676

00:29:52,240 --> 00:29:54,240

with a thermal lance.

677

00:29:54,240 --> 00:29:56,240

Step two is fill the safe with water.

678

00:29:56,240 --> 00:29:59,240

Step three is lower explosives into the safe.

679

00:29:59,240 --> 00:30:02,240

Step four is blow the door off the safe.

680

00:30:02,240 --> 00:30:05,240

Step five is get the money and run.

681

00:30:05,240 --> 00:30:07,240

Adam and Jamie are going to tackle this myth

682

00:30:07,240 --> 00:30:11,240

step by step to see whether this movie is spot-on accurate

683

00:30:11,240 --> 00:30:14,240

or did they score an own goal.

684

00:30:14,240 --> 00:30:17,240

And first up is the thermal entry.

685

00:30:17,240 --> 00:30:20,240

It's not exactly what the well-dressed bank robber

686

00:30:20,240 --> 00:30:22,240

was weighing these days.

687

00:30:22,240 --> 00:30:24,240

It sure isn't what the movie guy used,

688

00:30:24,240 --> 00:30:27,240

but better to be safe than sorry.

689

00:30:27,240 --> 00:30:29,240

Okay.

690

00:30:29,240 --> 00:30:31,240

I think I'm ready to go for it.

691

00:30:31,240 --> 00:30:33,240

Just like in the film,

692

00:30:33,240 --> 00:30:36,240

Adam's using a thermal lance to cut through the safe.

693

00:30:36,240 --> 00:30:39,240

The lance burns iron rods in an oxygen-rich environment

694

00:30:39,240 --> 00:30:42,240

to create very high temperatures for cutting.

695

00:30:42,240 --> 00:30:45,240

I need another rod.

696

00:30:45,240 --> 00:30:48,240

And the lancing is already making the movie myth

697

00:30:48,240 --> 00:30:50,240

go up in smoke.

698

00:30:50,240 --> 00:30:53,240

After all, it took that burglar less than 30 seconds

699

00:30:53,240 --> 00:30:55,240

to get through the steel,

700

00:30:55,240 --> 00:30:58,240

but all up it's taken Adam 20 times longer.

701

00:30:58,240 --> 00:31:00,240

It opens.

702

00:31:00,240 --> 00:31:02,240

And that's not the only problem.

703

00:31:02,240 --> 00:31:05,240

I sure did run into some problems on step one,

704

00:31:05,240 --> 00:31:07,240

which was burning the hole in the thermal lance.

705

00:31:07,240 --> 00:31:09,240

Number one, I set fire to my shoes.

706

00:31:09,240 --> 00:31:13,240

Number two, I think I used up maybe a dozen or more rods.

707

00:31:13,240 --> 00:31:16,240

And then those rods set fire to everything in the safe

708

00:31:16,240 --> 00:31:19,240

and covered everything with this like blackened char.

709

00:31:19,240 --> 00:31:21,240

I didn't see that in the movie.

710

00:31:21,240 --> 00:31:23,240

Adam's scepter is looking more charred

711

00:31:23,240 --> 00:31:25,240

than a sausage sizzle in hell.

712

00:31:25,240 --> 00:31:28,240

And this movie myth ain't looking much better.

713

00:31:28,240 --> 00:31:30,240

On the other side of the break...

714

00:31:30,240 --> 00:31:32,240

Save yourself the embarrassment.

715

00:31:32,240 --> 00:31:34,240

Don't try what you're about to see at home.

716

00:31:34,240 --> 00:31:37,240

Carrie ruffles her feathers at the Sona Alarm.

717

00:31:44,240 --> 00:31:48,240

Just when the teen thought it was safe to raise the maze to the ground,

718

00:31:48,240 --> 00:31:51,240

there's one more security device to test.

719

00:31:51,240 --> 00:31:54,240

What I'm doing right now is I'm installing the Sonic motion detector.

720

00:31:54,240 --> 00:31:56,240

This is going to be a tough one to beat.

721

00:31:57,240 --> 00:32:00,240

An ultrasonic motion detector?

722

00:32:00,240 --> 00:32:03,240

Sounds alarming, but it's going to be a tough one.

723

00:32:03,240 --> 00:32:06,240

I'm going to use the Sona Alarm to get the Sona Alarm.

724

00:32:06,240 --> 00:32:09,240

I'm going to use the Sona Alarm to get the Sona Alarm.

725

00:32:09,240 --> 00:32:11,240

Ultrasonic motion detector?

726

00:32:11,240 --> 00:32:14,240

Sounds alarming, but how does this one work?

727

00:32:14,240 --> 00:32:19,240

An ultrasonic motion sensor sets out a very high frequency sound wave,

728

00:32:19,240 --> 00:32:22,240

which bounces off all the walls in a room

729

00:32:22,240 --> 00:32:25,240

and comes back to a receiver in the sensor to create a pattern.

730

00:32:25,240 --> 00:32:29,240

Now this pattern, it will know as sort of the status quo of the room,

731

00:32:29,240 --> 00:32:34,240

and anything that interrupts that will set off the sensor and alarms will go off.

732

00:32:34,240 --> 00:32:36,240

So let's get this straight.

733

00:32:36,240 --> 00:32:40,240

The detector times how long it takes for a high frequency sound wave

734

00:32:40,240 --> 00:32:43,240

to travel across the room and back.

735

00:32:43,240 --> 00:32:45,240

If anything gets in the way of the sound wave,

736

00:32:45,240 --> 00:32:48,240

it's reflected back to the sensor faster,

737

00:32:48,240 --> 00:32:50,240

and the alarm gets triggered.

738

00:32:51,240 --> 00:32:54,240

And the first step in trying to silence the Sona

739

00:32:54,240 --> 00:32:57,240

is to get some fabric that can soak up the sound.

740

00:32:57,240 --> 00:32:59,240

If you need a sound absorbing material,

741

00:32:59,240 --> 00:33:03,240

I really couldn't think of anything better than maybe a shaggy, shag pile carpet.

742

00:33:03,240 --> 00:33:07,240

So definitely going to hit up this retro store and see if they have anything like that.

743

00:33:07,240 --> 00:33:11,240

Carrie's hoping that a thick rug will absorb the Sona sound waves,

744

00:33:11,240 --> 00:33:14,240

and so prevent them from being reflected back.

745

00:33:14,240 --> 00:33:18,240

She reckons this might trick the alarm into thinking everything's normal.

746

00:33:18,240 --> 00:33:20,240

I don't know if color's going to have anything to do with it,

747

00:33:20,240 --> 00:33:22,240

but this is the thickest one I have.

748

00:33:22,240 --> 00:33:23,240

The yellow?

749

00:33:23,240 --> 00:33:24,240

Yeah, definitely.

750

00:33:24,240 --> 00:33:26,240

I wrap myself up in this so I'm going to look like a muppet.

751

00:33:26,240 --> 00:33:27,240

Or a big bird.

752

00:33:27,240 --> 00:33:29,240

Carrie may be about to turn chicken,

753

00:33:29,240 --> 00:33:32,240

but it's this guy who gets egg on his face.

754

00:33:33,240 --> 00:33:34,240

Oh!

755

00:33:34,240 --> 00:33:36,240

Oh, are you okay?

756

00:33:36,240 --> 00:33:37,240

Yeah, I'm fine.

757

00:33:37,240 --> 00:33:38,240

Back at the shop,

758

00:33:38,240 --> 00:33:42,240

Carrie's going to revamp her rug into a sonic stealth suit,

759

00:33:42,240 --> 00:33:44,240

but not everyone's thrilled at the thought.

760

00:33:44,240 --> 00:33:47,240

I'm making my sound absorbing suit out of this rug,

761

00:33:47,240 --> 00:33:51,240

which Lulu here has made into her bed and she's not so happy about.

762

00:33:51,240 --> 00:33:53,240

With Lulu out of the way,

763

00:33:53,240 --> 00:33:56,240

it's a dog's life for Carrie as she carves up her carpet.

764

00:33:56,240 --> 00:33:59,240

But after just a few seconds of time lapse,

765

00:33:59,240 --> 00:34:01,240

her stealth suit is ready to strut.

766

00:34:01,240 --> 00:34:04,240

Could you imagine breaking into a building dressed like this?

767

00:34:04,240 --> 00:34:05,240

Not really.

768

00:34:05,240 --> 00:34:07,240

She may look like a big bird,

769

00:34:07,240 --> 00:34:11,240

but will it cause the alarm to go open sesame?

770

00:34:11,240 --> 00:34:13,240

The alarm is active.

771

00:34:13,240 --> 00:34:15,240

Save yourself the embarrassment.

772

00:34:15,240 --> 00:34:17,240

Don't try what you're about to see at home.

773

00:34:20,240 --> 00:34:23,240

It's an alarmingly good start, but then...

774

00:34:25,240 --> 00:34:28,240

This chicken's a jailbird.

775

00:34:28,240 --> 00:34:29,240

Are you surprised?

776

00:34:29,240 --> 00:34:31,240

It looked like you were going to make it.

777

00:34:31,240 --> 00:34:33,240

With the suit down for the count,

778

00:34:33,240 --> 00:34:35,240

it's time for a new tactic.

779

00:34:35,240 --> 00:34:39,240

But this one really seems like a load of old sheet.

780

00:34:39,240 --> 00:34:42,240

Carrie, the system is armed and all cameras are rolling.

781

00:34:42,240 --> 00:34:47,240

No fancy material, just a regular bed sheet held above her head.

782

00:34:47,240 --> 00:34:49,240

Hey, it's working.

783

00:34:49,240 --> 00:34:50,240

What the heck?

784

00:34:50,240 --> 00:34:51,240

What?

785

00:34:51,240 --> 00:34:52,240

What?

786

00:34:52,240 --> 00:34:53,240

No way.

787

00:34:53,240 --> 00:34:55,240

There's no way that could possibly work.

788

00:34:55,240 --> 00:34:57,240

Oh, yes, there is.

789

00:34:57,240 --> 00:34:59,240

Holy sheet. It works.

790

00:34:59,240 --> 00:35:01,240

What are you doing again? There's no way.

791

00:35:01,240 --> 00:35:04,240

That was like so goofy looking. I can't believe it worked.

792

00:35:04,240 --> 00:35:05,240

Let me do it again.

793

00:35:05,240 --> 00:35:06,240

Try it again.

794

00:35:06,240 --> 00:35:08,240

Bed sheet entering.

795

00:35:08,240 --> 00:35:13,240

Remarkably, this simple sheet is absorbing the sound waves,

796

00:35:13,240 --> 00:35:15,240

and that's left the team gobsmacked.

797

00:35:15,240 --> 00:35:17,240

Drop the sheet.

798

00:35:20,240 --> 00:35:22,240

You're freaking away.

799

00:35:22,240 --> 00:35:24,240

You can't be serious.

800

00:35:24,240 --> 00:35:25,240

I am serious.

801

00:35:25,240 --> 00:35:27,240

I'm just stupid.

802

00:35:27,240 --> 00:35:30,240

You know when you get that list of myths and you're like,

803

00:35:30,240 --> 00:35:31,240

come on.

804

00:35:31,240 --> 00:35:33,240

This was on the list of,

805

00:35:33,240 --> 00:35:35,240

all right, let's just get it over with and fail it

806

00:35:35,240 --> 00:35:38,240

so we can move on to something that actually might work.

807

00:35:38,240 --> 00:35:41,240

Holding up the bed sheet, full sensor,

808

00:35:41,240 --> 00:35:43,240

which is kind of mind blowing.

809

00:35:43,240 --> 00:35:45,240

But before putting this alarm to bed,

810

00:35:45,240 --> 00:35:48,240

there's one final technique to try,

811

00:35:48,240 --> 00:35:50,240

and that's slowing everything right down.

812

00:35:50,240 --> 00:35:52,240

She's going in.

813

00:35:52,240 --> 00:35:54,240

For the last dance,

814

00:35:54,240 --> 00:35:57,240

Carrie is simply trying to waltz through the room

815

00:35:57,240 --> 00:35:59,240

as slowly as possible.

816

00:35:59,240 --> 00:36:02,240

All right, so she's definitely in the path of the motion sensor.

817

00:36:02,240 --> 00:36:04,240

To stop the alarm going off all the time,

818

00:36:04,240 --> 00:36:08,240

it has a threshold level of movement needed to trigger it.

819

00:36:08,240 --> 00:36:10,240

By moving snail, pay slow,

820

00:36:10,240 --> 00:36:13,240

it may be possible to sneak under this threshold

821

00:36:13,240 --> 00:36:15,240

and go undetected.

822

00:36:15,240 --> 00:36:17,240

She's looking good.

823

00:36:17,240 --> 00:36:18,240

Yeah, she is looking good.

824

00:36:18,240 --> 00:36:21,240

Of course, it's hardly compatible with a fast paced heist,

825

00:36:21,240 --> 00:36:25,240

but after 20 minutes of inching, she's through.

826

00:36:25,240 --> 00:36:28,240

You're almost there, Carrie. Just a little more.

827

00:36:28,240 --> 00:36:31,240

All right, you're clear. She made it.

828

00:36:31,240 --> 00:36:33,240

You're clear, Carrie.

829

00:36:33,240 --> 00:36:35,240

They finally...

830

00:36:35,240 --> 00:36:37,240

I am totally and utterly shocked.

831

00:36:37,240 --> 00:36:39,240

I can't believe that I could walk slow enough

832

00:36:39,240 --> 00:36:41,240

to get past the motion sensor.

833

00:36:41,240 --> 00:36:44,240

I thought it was going to go off the second I walked in the room.

834

00:36:45,240 --> 00:36:48,240

Two.

835

00:36:48,240 --> 00:36:50,240

Coming right up.

836

00:36:50,240 --> 00:36:51,240

One.

837

00:36:51,240 --> 00:36:55,240

The mother of all safes gets blown to smithereens.

838

00:36:55,240 --> 00:36:57,240

Look at the door. Wow.

839

00:37:04,240 --> 00:37:08,240

Adam and Jamie are attempting to copy this movie crime cliffhanger

840

00:37:08,240 --> 00:37:11,240

to see if they can blow a safe filled with water.

841

00:37:14,240 --> 00:37:17,240

The reason that they use water is because the safe is equipped

842

00:37:17,240 --> 00:37:19,240

with what's called a glass re-locker.

843

00:37:19,240 --> 00:37:22,240

It's a very ingenious, anti-safe cracking device.

844

00:37:22,240 --> 00:37:25,240

If you try and drill it, there's a pane of glass there.

845

00:37:25,240 --> 00:37:29,240

And if that glass breaks, there are these locks that engage

846

00:37:29,240 --> 00:37:31,240

as soon as that glass breaks.

847

00:37:31,240 --> 00:37:34,240

Well, the only way in is to just blow that door right off.

848

00:37:34,240 --> 00:37:37,240

That's the theory, but it's not going well.

849

00:37:37,240 --> 00:37:40,240

The first step involved lancing a hole in the top.

850

00:37:40,240 --> 00:37:42,240

And while it didn't trigger the re-locker,

851

00:37:42,240 --> 00:37:46,240

when Adam inspected the loot, he got more than he bargained for.

852

00:37:46,240 --> 00:37:49,240

Yeah, at this point in the myth, we haven't even come close

853

00:37:49,240 --> 00:37:54,240

to opening the door, and already the loot, including my prize scepter,

854

00:37:54,240 --> 00:37:56,240

is already mostly destroyed.

855

00:37:56,240 --> 00:38:00,240

But as ever on Mythbusters, it's onwards and upwards.

856

00:38:00,240 --> 00:38:03,240

Well, next we got to close this thing up and fill the darn thing with water.

857

00:38:03,240 --> 00:38:05,240

You know, that's part of the process.

858

00:38:05,240 --> 00:38:07,240

We'll see whether the water stays in the safe.

859

00:38:07,240 --> 00:38:10,240

It's step two, the water filling.

860

00:38:10,240 --> 00:38:11,240

Go for it.

861

00:38:11,240 --> 00:38:15,240

But that has more problems than step one.

862

00:38:15,240 --> 00:38:17,240

What a shocker.

863

00:38:17,240 --> 00:38:22,240

With the safe about as water tight as a sieve, Adam and Jamie need to seal her up,

864

00:38:22,240 --> 00:38:26,240

something which the movie burglar wasn't obliged to do.

865

00:38:26,240 --> 00:38:30,240

If the safe won't hold water, and we needed to hold water for our explosion,

866

00:38:30,240 --> 00:38:34,240

and we are safe crackers, then we don't have access to be able to open this door

867

00:38:34,240 --> 00:38:36,240

and pour silicone gasket around it.

868

00:38:36,240 --> 00:38:39,240

We've got to seal it up from the outside somehow.

869

00:38:39,240 --> 00:38:43,240

The best thing I could think of, both Jamie and I thought about it, was butyl.

870

00:38:43,240 --> 00:38:48,240

Jamie used to use it to repair leaks in his boat from the outside underwater.

871

00:38:48,240 --> 00:38:51,240

This is awesome stuff, but we're hoping it'll work.

872

00:38:51,240 --> 00:38:57,240

In terms of stickiness, the butyl is brutal, and after papering over the cracks,

873

00:38:57,240 --> 00:39:00,240

it's time for filling take two.

874

00:39:00,240 --> 00:39:03,240

It's like a babel and brook, really.

875

00:39:04,240 --> 00:39:06,240

Oh, I want this.

876

00:39:10,240 --> 00:39:16,240

As Adam goes into mind meltdown, the safe keeps filling up, but the leaks are getting worse.

877

00:39:16,240 --> 00:39:18,240

It's going to blow.

878

00:39:18,240 --> 00:39:20,240

Oh man, there's no stopping that.

879

00:39:20,240 --> 00:39:23,240

It's another fill failure.

880

00:39:23,240 --> 00:39:30,240

Bad news for the men, but the only way to fill it to the brim is to seal the safe from the inside.

881

00:39:34,240 --> 00:39:37,240

This is a fun job sometimes.

882

00:39:37,240 --> 00:39:45,240

Of course, this is sailing further away from the movie, but the expanding foam should seal the deal.

883

00:39:45,240 --> 00:39:47,240

Let's fill.

884

00:39:47,240 --> 00:39:54,240

At last, she's retaining water, and while she fills, the team gets to the bottom of what the water actually does.

885

00:39:55,240 --> 00:39:58,240

What are the physics involved here?

886

00:39:58,240 --> 00:40:03,240

What does the water do with the explosive and the metal of it that makes it different?

887

00:40:03,240 --> 00:40:11,240

The water does not compress when the explosive detonates, so you have some dynamic energy pushing evenly

888

00:40:11,240 --> 00:40:16,240

against all of the water surroundings, against all of the surfaces on the inside of the safe.

889

00:40:16,240 --> 00:40:18,240

Does it make the explosion more intense?

890

00:40:18,240 --> 00:40:20,240

No, you don't change the energy.

891

00:40:20,240 --> 00:40:24,240

You just more or less concentrate the distribution of the energy.

892

00:40:24,240 --> 00:40:28,240

So it just more efficiently transfers that shockwave from the explosive valve to the outer walls of the safe?

893

00:40:28,240 --> 00:40:30,240

Yes.

894

00:40:30,240 --> 00:40:37,240

So in theory, the water is a good system to blow out a safe, but in case the shockwave is more like a tsunami,

895

00:40:37,240 --> 00:40:40,240

the blast shields are locked into place.

896

00:40:40,240 --> 00:40:46,240

And just in time, because back in the sewer bunker, the water closet is fit to burst,

897

00:40:46,240 --> 00:40:48,240

meaning it's time for the booze.

898

00:40:48,240 --> 00:40:50,240

Yeah, so let's say I'm mobilized, let's do it.

899

00:40:50,240 --> 00:40:56,240

Remember, this is the result they're hoping for, the safe door neatly parts company.

900

00:40:56,240 --> 00:41:00,240

The glass relockers are beaten, and the booty is undamaged.

901

00:41:00,240 --> 00:41:08,240

With Frank's mini depth charge sitting pretty, it's time to go for broke and blow the final whistle on the score.

902

00:41:08,240 --> 00:41:10,240

Going in.

903

00:41:10,240 --> 00:41:13,240

Three, two, one.

904

00:41:17,240 --> 00:41:20,240

I saw the whole thing move.

905

00:41:20,240 --> 00:41:23,240

I think we're inside the safe.

906

00:41:23,240 --> 00:41:25,240

You think we are?

907

00:41:25,240 --> 00:41:28,240

But for me, it's always the boom.

908

00:41:28,240 --> 00:41:34,240

The TNT kick to perfection as safe and door are no more.

909

00:41:34,240 --> 00:41:36,240

Look at the door.

910

00:41:36,240 --> 00:41:38,240

Wow.

911

00:41:38,240 --> 00:41:41,240

That worked beautifully.

912

00:41:41,240 --> 00:41:43,240

Oh my God.

913

00:41:43,240 --> 00:41:48,240

The door is a full 30 yards from the safe, but how's the booty?

914

00:41:48,240 --> 00:41:50,240

There it is.

915

00:41:52,240 --> 00:41:55,240

It's mostly here.

916

00:41:55,240 --> 00:41:57,240

I think I found the jewel.

917

00:41:57,240 --> 00:42:01,240

Unfortunately, the scepter's been shredded and the money hasn't fared much better,

918

00:42:01,240 --> 00:42:07,240

but as a way of beating the infamous glass relocker, it is mission accomplished.

919

00:42:07,240 --> 00:42:11,240

Well, I mean, this definitely rented us the relockers completely moot,

920

00:42:11,240 --> 00:42:16,240

because they're in the door over there and the safe and your loot is over here.

921

00:42:16,240 --> 00:42:20,240

Yeah, they may well have relocked the door, but if the door isn't in the safe anymore,

922

00:42:20,240 --> 00:42:22,240

it doesn't do them a very much good, right?

923

00:42:22,240 --> 00:42:28,240

It doesn't matter how many locks the door has when its hinges have been blown to smithereens.

924

00:42:28,240 --> 00:42:30,240

Want to see it again?

925

00:42:36,240 --> 00:42:38,240

Well, I'd say that technique worked.

926

00:42:38,240 --> 00:42:40,240

What do you want to call this one?

927

00:42:40,240 --> 00:42:46,240

You know, we found out that the movie technique might be based on a robbery that happened in the 50s

928

00:42:46,240 --> 00:42:50,240

in the East Coast of the United States, but we cannot independently confirm that.

929

00:42:50,240 --> 00:42:53,240

Well, I'd call that plausible then.

930

00:42:53,240 --> 00:42:55,240

I would absolutely call that plausible.

931

00:42:55,240 --> 00:42:58,240

It is rife with problems about sealing the safe,

932

00:42:58,240 --> 00:43:03,240

but once you do, it is a very effective way of separating the safe from the door.

933

00:43:03,240 --> 00:43:05,240

Alright.

934

00:43:05,240 --> 00:43:07,240

On to the next one.