

1

00:00:00,000 --> 00:00:03,000

Do not try what you're about to see at home.

2

00:00:03,000 --> 00:00:09,000

We consult with experts, we take every precaution and we have years of experience in dangerous situations.

3

00:00:30,000 --> 00:00:33,000

We have duct tape all for the glory.

4

00:00:33,000 --> 00:00:37,000

Meanwhile, Cary, Grant and Tori are hitting the road.

5

00:00:37,000 --> 00:00:39,000

It took you so long.

6

00:00:39,000 --> 00:00:43,000

To find out if duct tape can keep a car from going to pieces.

7

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

He's a mad woman.

8

00:00:45,000 --> 00:00:47,000

Then it's a race to the finish line.

9

00:00:47,000 --> 00:00:48,000

Last lap!

10

00:00:48,000 --> 00:00:54,000

To see if the sticky stuff we survive can stop a speeding car in its tracks.

11

00:00:54,000 --> 00:00:59,000

Who are the misbusters?

12

00:00:59,000 --> 00:01:00,000

Adam Savage.

13

00:01:00,000 --> 00:01:02,000

It's scientific!

14

00:01:02,000 --> 00:01:03,000

And Jamie Hideman.

15

00:01:03,000 --> 00:01:05,000

I call him my little pop gun.

16

00:01:05,000 --> 00:01:09,000

Between them more than 30 years of special effects experience.

17

00:01:09,000 --> 00:01:12,000

Joining them, Cary Byron.

18

00:01:12,000 --> 00:01:14,000

Explosives in electricity.

19

00:01:14,000 --> 00:01:16,000

Tori Bellachy.

20

00:01:16,000 --> 00:01:18,000

We're popping popcorn with lasers.

21

00:01:18,000 --> 00:01:19,000

And Grant Imahara.

22

00:01:19,000 --> 00:01:20,000

I'm sorry!

23

00:01:20,000 --> 00:01:22,000

They don't just tell them it.

24

00:01:22,000 --> 00:01:25,000

They put them to the test.

25

00:01:30,000 --> 00:01:35,000

Oh no.

26

00:01:35,000 --> 00:01:37,000

Oh yes.

27

00:01:37,000 --> 00:01:39,000

That can only mean one thing.

28

00:01:39,000 --> 00:01:40,000

Yes it can.

29

00:01:40,000 --> 00:01:46,000

It means back by popular demand it's time for the duct tape special number two.

30

00:01:46,000 --> 00:01:50,000

It was one of our most popular shows.

31

00:01:50,000 --> 00:01:52,000

I'm giving it all we got, captain.

32

00:01:52,000 --> 00:01:57,000

When the mythbusters paid homage to duct tape, fans went into a frenzy.

33

00:01:58,000 --> 00:01:59,000

More duct tape.

34

00:01:59,000 --> 00:02:00,000

Love it.

35

00:02:00,000 --> 00:02:05,000

Because you asked for it, they're putting more duct tape tales to the ultimate test.

36

00:02:05,000 --> 00:02:07,000

Oh it's for real.

37

00:02:10,000 --> 00:02:12,000

So what do you have in mind?

38

00:02:12,000 --> 00:02:20,000

I see in my mind's eye a chasm, wide and deep, spanned only by duct tape.

39

00:02:20,000 --> 00:02:21,000

A duct tape bridge.

40

00:02:21,000 --> 00:02:24,000

That you and I can walk across.

41

00:02:24,000 --> 00:02:25,000

Sounds dangerous.

42

00:02:25,000 --> 00:02:26,000

Exactly.

43

00:02:27,000 --> 00:02:33,000

A duct tape dingy's one thing, but using duct tape to replace steel and stone?

44

00:02:33,000 --> 00:02:41,000

The tape's mythical adhesive and low bearing capabilities are about to be stretched to the absolute limit.

45

00:02:41,000 --> 00:02:44,000

But we'll cross that bridge when we come to it.

46

00:02:44,000 --> 00:02:50,000

You know before we decide on a final design, I think we should run duct tape through its paces in the shop downstairs.

47

00:02:50,000 --> 00:02:53,000

It's a series of bench tests, if you will.

48

00:02:53,000 --> 00:02:54,000

Okay.

49

00:02:57,000 --> 00:03:02,000

Look, obviously we're already pretty familiar with the awesome power of duct tape.

50

00:03:02,000 --> 00:03:06,000

But if we're going to make a bridge out of this stuff that safely suspends us above a chasm,

51

00:03:06,000 --> 00:03:09,000

we're going to have to determine a couple of things right up front.

52

00:03:09,000 --> 00:03:12,000

One, how much are we going to need to support our body weight?

53

00:03:12,000 --> 00:03:17,000

Two, how are we going to anchor the duct tape to the sides of that chasm?

54

00:03:17,000 --> 00:03:19,000

That's what we're about to test and figure out.

55

00:03:23,000 --> 00:03:24,000

So where do you want to begin?

56

00:03:24,000 --> 00:03:28,000

Let's say we stretch out a single strand and see what it takes to break it.

57

00:03:28,000 --> 00:03:30,000

Sounds good. Let's do it.

58

00:03:30,000 --> 00:03:33,000

Step one, a single strand of strength test.

59

00:03:33,000 --> 00:03:37,000

Today the role of our strength testing device will be played by a digital force cage.

60

00:03:37,000 --> 00:03:44,000

I will pull on the duct tape with this hook and right here it will tell me how many pounds of force it takes before it breaks.

61

00:03:47,000 --> 00:03:49,000

Ten, twelve, thirteen.

62

00:03:49,000 --> 00:03:51,000

This is killing me.

63

00:03:52,000 --> 00:03:55,000

I don't mean it's hurting, it's just the indisimulation.

64

00:03:56,000 --> 00:03:57,000

Sixty-three.

65

00:03:59,000 --> 00:04:02,000

Sixty-seven point three pounds of force to break it.

66

00:04:02,000 --> 00:04:03,000

Wow.

67

00:04:03,000 --> 00:04:05,000

That's more than I would have thought.

68

00:04:05,000 --> 00:04:06,000

Me too.

69

00:04:06,000 --> 00:04:10,000

They might be well acquainted with duct tape's awesome qualities,

70

00:04:10,000 --> 00:04:13,000

but it still has the power to surprise.

71

00:04:13,000 --> 00:04:16,000

I didn't realize the duct tape was going to be that strong.

72

00:04:16,000 --> 00:04:26,000

That means that we could in fact build a bridge in theory with like three or four strips of duct tape and nothing else.

73

00:04:27,000 --> 00:04:32,000

That little laugh means Jamie's already plotting to put that theory to the test.

74

00:04:33,000 --> 00:04:36,000

I want to stretch four across and sit on it.

75

00:04:36,000 --> 00:04:37,000

And sit on it.

76

00:04:37,000 --> 00:04:38,000

Yeah.

77

00:04:38,000 --> 00:04:39,000

Okay.

78

00:04:39,000 --> 00:04:45,000

One strand snaps at sixty-seven pounds, so four strands should hold a one hundred and eighty pound
Heinemann, right?

79

00:04:46,000 --> 00:04:48,000

You ready to sit on this?

80

00:04:48,000 --> 00:04:49,000

I am.

81

00:04:50,000 --> 00:04:51,000

Alright, go for it.

82

00:04:53,000 --> 00:04:55,000

Slow down, slow down.

83

00:04:56,000 --> 00:04:57,000

So you're hanging?

84

00:04:57,000 --> 00:04:58,000

I am.

85

00:04:58,000 --> 00:05:00,000

I would say I'm off the ground.

86

00:05:00,000 --> 00:05:02,000

That's pretty stunning.

87

00:05:02,000 --> 00:05:09,000

With a combined load bearing capacity of more than two hundred and sixty pounds, the four strands support Jamie.

88

00:05:09,000 --> 00:05:12,000

But they're drooping more than his mustache.

89

00:05:12,000 --> 00:05:14,000

You're drooping like six feet over thirty feet.

90

00:05:14,000 --> 00:05:16,000

That's quite a bit.

91

00:05:16,000 --> 00:05:22,000

Yep, it's supporting me, but I have to say four pieces of duct tape does not a bridge make.

92

00:05:23,000 --> 00:05:29,000

We're now going to try a strand of eight pieces of duct tape and see if we get less droop.

93

00:05:29,000 --> 00:05:33,000

We'll doubling the amount of tape have the droop factor.

94

00:05:33,000 --> 00:05:35,000

You ready for us sitting on eight pieces?

95

00:05:35,000 --> 00:05:36,000

I'm ready.

96

00:05:36,000 --> 00:05:43,000

With Jamie sitting pretty on his perch, Adam runs a tape over the tape and the news isn't good.

97

00:05:43,000 --> 00:05:45,000

Four feet of droop instead of five feet of droop.

98

00:05:45,000 --> 00:05:53,000

You would think that that doubling of the quantity of duct tape would, what, cut the amount of droop in half, but it didn't.

99

00:05:53,000 --> 00:05:57,000

Hopes of a successful bridge are second until Adam hits on an idea.

100

00:05:57,000 --> 00:06:03,000

He lays five eight layer strands side by side, then weaves a little magic.

101

00:06:03,000 --> 00:06:12,000

I'm trying to tease out some structural qualities in duct tape that will eventually yield for me, this is my goal, a bridge that I can actually walk on.

102

00:06:12,000 --> 00:06:16,000

And it seems they might have finally found their footing.

103

00:06:16,000 --> 00:06:18,000

It doesn't feel that bad. You want to try it?

104

00:06:18,000 --> 00:06:20,000

No, I can see.

105

00:06:20,000 --> 00:06:26,000

With his weight distributed across all five strands, the extreme sag might be solved.

106

00:06:26,000 --> 00:06:30,000

Yeah, it looks good. With handrails, you could walk right across this thing.

107

00:06:30,000 --> 00:06:32,000

And with five of those, you've got a good safety factor.

108

00:06:32,000 --> 00:06:37,000

This stuff is amazing. You know, we might just be able to build a bridge out of this.

109

00:06:37,000 --> 00:06:39,000

I think you're right.

110

00:06:39,000 --> 00:06:41,000

Look, ma, no hands.

111

00:06:43,000 --> 00:06:51,000

All right, so last time we built a cannon at a duct tape, what are we doing this time?

112

00:06:51,000 --> 00:06:58,000

So along with road flares, jumper cables, devices to smash out your windows, there's one more very important tool you should be carrying along in your car.

113

00:06:58,000 --> 00:07:00,000

Duct tape.

114

00:07:00,000 --> 00:07:05,000

Yeah, sure. If you get into a minor fender bender, you could use it to hold things together until you get to the mechanic.

115

00:07:05,000 --> 00:07:06,000

Exactly.

116

00:07:06,000 --> 00:07:09,000

Now, I hate to ruin your party, but that's actually not a myth. It works.

117

00:07:09,000 --> 00:07:12,000

I mean, I've used duct tape to fix my car in the past.

118

00:07:12,000 --> 00:07:14,000

Well, I think the myth lies in the extreme.

119

00:07:14,000 --> 00:07:16,000

Just what are you getting at?

120

00:07:16,000 --> 00:07:18,000

I have some plans for you guys.

121

00:07:21,000 --> 00:07:26,000

Everyone knows a few strips of duct tape can mend a minor automotive mishap.

122

00:07:26,000 --> 00:07:31,000

But can it really cure the most extreme car catastrophe?

123

00:07:32,000 --> 00:07:37,000

I have a plan. I'm going to tear apart a car and see if you can put it back together with duct tape.

124

00:07:37,000 --> 00:07:39,000

Good plan. Sounds like a challenge to me.

125

00:07:39,000 --> 00:07:41,000

Oh, you don't even know.

126

00:07:41,000 --> 00:07:49,000

Putting the car back together is only part of the challenge. It will also have to stay in one piece at top speed.

127

00:07:50,000 --> 00:07:56,000

And so yet another unfortunate automobile enters the driveway of doom.

128

00:07:56,000 --> 00:07:59,000

Alright, time to wreck this car.

129

00:08:00,000 --> 00:08:04,000

This little adventure is really going to put duct tape to the test.

130

00:08:04,000 --> 00:08:07,000

The boys are going to have to put this car back together after I destroy it.

131

00:08:07,000 --> 00:08:10,000

Now, they think it's going to be easy.

132

00:08:10,000 --> 00:08:13,000

I think they are underestimating my destructive powers.

133

00:08:14,000 --> 00:08:18,000

To really test the tape, she wants that car in as many pieces as possible.

134

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

And has developed a disturbing appetite for destruction.

135

00:08:22,000 --> 00:08:25,000

I love destroying cars.

136

00:08:25,000 --> 00:08:27,000

Breaking glass.

137

00:08:27,000 --> 00:08:29,000

Crunching metal.

138

00:08:29,000 --> 00:08:31,000

It's awesome.

139

00:08:31,000 --> 00:08:36,000

But when it comes to raising the roof, even Carrie's dark side is defeated.

140

00:08:38,000 --> 00:08:43,000

Yeah, there's actually tools made for this. I think I have some friends that could help.

141

00:08:45,000 --> 00:08:52,000

Cue a crew of San Frans Finest, ready and willing to help Carrie complete her deranged dismantling.

142

00:08:52,000 --> 00:08:59,000

Just in time. That is awesome. What is that?

143

00:08:59,000 --> 00:09:03,000

These are hydraulic cutting tools. And this is a cutter spreader combination.

144

00:09:03,000 --> 00:09:06,000

These are cutters and we're going to use them to cut apart the vehicle.

145

00:09:06,000 --> 00:09:11,000

These tools are designed to quickly open up vehicles and free accident victims.

146

00:09:11,000 --> 00:09:14,000

This makes my tools look silly.

147

00:09:14,000 --> 00:09:20,000

Using hydraulic power, the blades bite down with more than 12,000 pounds of force.

148

00:09:21,000 --> 00:09:23,000

Woo! I love it.

149

00:09:24,000 --> 00:09:28,000

Thank you guys so much. This is really going to ruin their day.

150

00:09:28,000 --> 00:09:30,000

Great.

151

00:09:30,000 --> 00:09:31,000

Bye guys.

152

00:09:31,000 --> 00:09:32,000

Bye.

153

00:09:32,000 --> 00:09:34,000

Grant and Tori have no idea what they're in for.

154

00:09:34,000 --> 00:09:42,000

It took me a sledgehammer, a crowbar, a grinder, a saw, and four big firemen to destroy this car.

155

00:09:43,000 --> 00:09:46,000

See what they can do with duct tape to put it back together.

156

00:09:46,000 --> 00:09:47,000

Boys!

157

00:09:49,000 --> 00:09:51,000

Oh my god.

158

00:09:51,000 --> 00:09:53,000

You went to town on this car.

159

00:09:53,000 --> 00:09:55,000

It's a convertible now.

160

00:09:56,000 --> 00:09:57,000

Here are your tools.

161

00:09:58,000 --> 00:10:00,000

Oh my god.

162

00:10:01,000 --> 00:10:05,000

That is an impressive amount of damage to this car.

163

00:10:05,000 --> 00:10:13,000

I mean I've heard of duct tape being used to like, you know, tape on a bumper or fix a windshield or, you know, wrap a hose.

164

00:10:13,000 --> 00:10:16,000

But you know what? Not all at once.

165

00:10:17,000 --> 00:10:21,000

They're in a sticky situation. Carrie's done her job real well.

166

00:10:21,000 --> 00:10:24,000

Carrie has cut some key structural points in the car.

167

00:10:24,000 --> 00:10:27,000

Now it is important that we get it back to that straight because let's face it.

168

00:10:27,000 --> 00:10:32,000

This is what's going to hold the doors on, the roof on top, and keep the windshield in place.

169

00:10:32,000 --> 00:10:35,000

This is really where the duct tape is going to have to prove itself.

170

00:10:35,000 --> 00:10:42,000

Soon the air is filled with the sound of ripping duct tape and Carrie's thoughtful musings on the material.

171

00:10:42,000 --> 00:10:44,000

Duct tape is essentially made of three layers.

172

00:10:44,000 --> 00:10:48,000

We have a vinyl layer on the outside that contributes to its waterproofing qualities.

173

00:10:48,000 --> 00:10:53,000

A fabric structure that gives it its core strength and a natural rubber pressure-sensitive adhesive.

174

00:10:53,000 --> 00:10:58,000

Generally comes in black or silver and is about 1-7th-8th inches.

175

00:10:58,000 --> 00:11:03,000

It's known as duct tape, but also it can be called duct tape, hurricane tape, gaffers tape,

176

00:11:03,000 --> 00:11:06,000

100-mile-an-hour tape, tank tape, and riggers tape.

177

00:11:06,000 --> 00:11:08,000

Thus, just part of the team.

178

00:11:11,000 --> 00:11:15,000

The carved-up car is coming back to life. Much to Carrie's surprise.

179

00:11:15,000 --> 00:11:19,000

I can't believe how quickly you're getting this car together.

180

00:11:20,000 --> 00:11:23,000

Just wait. We've made a few improvements.

181

00:11:23,000 --> 00:11:25,000

Is that a window from the door?

182

00:11:25,000 --> 00:11:28,000

Yep. Don't drive too fast.

183

00:11:28,000 --> 00:11:32,000

With the rebuild complete, Carrie can't hide her admiration.

184

00:11:32,000 --> 00:11:36,000

I'm going to drive this car to give the duct tape car a true test.

185

00:11:36,000 --> 00:11:41,000

Now, the guys, if they drove the car, would drive somewhat gingerly because they don't want to see their work fail.

186

00:11:41,000 --> 00:11:43,000

They don't want to see the doors fly off.

187

00:11:43,000 --> 00:11:45,000

I, on the other hand, do.

188

00:11:45,000 --> 00:11:49,000

I'm the wrecking ball in this situation and I want to see things fly.

189

00:11:49,000 --> 00:11:57,000

Later, the highs and lows of a bouncy bridge and next can Carrie demolish the duct tape car.

190

00:12:04,000 --> 00:12:09,000

Carrie Torian Grant's duct tape car fix is ready for the ultimate test.

191

00:12:09,000 --> 00:12:12,000

Oh, sorry. I might have gotten a little carried away. Hey now.

192

00:12:12,000 --> 00:12:17,000

And so it's off to a place where the mythbusters have performed many crimes against inanity.

193

00:12:17,000 --> 00:12:19,000

What took you so long?

194

00:12:19,000 --> 00:12:23,000

What we're going to do now is set up a course here at the Alameda runway.

195

00:12:23,000 --> 00:12:35,000

Start, go through a little less curve, around a turn, hairpin turn, and then through a bump, a bump, a bump, and then a really tight turn.

196

00:12:35,000 --> 00:12:41,000

The idea here is to subject the car to as much stress as possible in the form of G-Force.

197

00:12:43,000 --> 00:12:48,000

This is duct tape car on the duct tape classic Grand Prix.

198

00:12:48,000 --> 00:12:50,000

Lap one, go ahead.

199

00:12:50,000 --> 00:12:55,000

Okay, here we go. Car number 17 with firing at the wheel into turn number one.

200

00:12:55,000 --> 00:12:56,000

Look at that.

201

00:12:56,000 --> 00:13:00,000

Carrie drives as though the accelerator is duct taped to the floor.

202

00:13:00,000 --> 00:13:04,000

Now in turn number three, Silverstone.

203

00:13:04,000 --> 00:13:09,000

Through her crazy cornering, the car is subjected to tremendous G-Force.

204

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

The bump! Indianapolis, and back to the beginning.

205

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

We're going to die.

206

00:13:16,000 --> 00:13:21,000

Okay, lap number four. Go, go, go, go.

207

00:13:21,000 --> 00:13:24,000

I got to say right now, the car is looking perfect.

208

00:13:24,000 --> 00:13:29,000

That's five laps so far. You are looking great. Even your hood detail is still on.

209

00:13:31,000 --> 00:13:35,000

Carrie's doing between 40 and 60 miles per hour.

210

00:13:35,000 --> 00:13:43,000

In a car with no structural integrity, everything from the roof to the doors is being held on only by tape.

211

00:13:43,000 --> 00:13:47,000

One wheel in the air. Take it easy there, Carrie.

212

00:13:51,000 --> 00:13:54,000

Last lap. And for the checkered flat.

213

00:13:54,000 --> 00:13:57,000

At least I think I would have. It's a duct tape classic.

214

00:13:59,000 --> 00:14:02,000

Why do you know that duct tape car has stayed the course?

215

00:14:02,000 --> 00:14:07,000

Alright, that was ten laps.

216

00:14:07,000 --> 00:14:11,000

Woo! You know what? It actually made it.

217

00:14:11,000 --> 00:14:12,000

We survived.

218

00:14:13,000 --> 00:14:21,000

Hairpin turns, S-curves, bumps, I go over sandbags, I get air. Still, duct tape is holding up.

219

00:14:21,000 --> 00:14:26,000

That was on flat ground. Now it's time to take it to the next level. We're sending it off-road.

220

00:14:26,000 --> 00:14:30,000

And in addition, it looks like it's going to rain.

221

00:14:31,000 --> 00:14:32,000

Let's go.

222

00:14:33,000 --> 00:14:37,000

Maybe getting off the beaten track will bring this myth unstuck.

223

00:14:38,000 --> 00:14:40,000

Mad Maxine floors it.

224

00:14:40,000 --> 00:14:42,000

Over there, turns the brush.

225

00:14:50,000 --> 00:14:56,000

After several soggy minutes thumping and bumping, this duct tape myth suddenly stalls.

226

00:14:56,000 --> 00:14:58,000

Car's dead.

227

00:15:00,000 --> 00:15:03,000

Only on MythBusters. Everyone's worried about the duct tape.

228

00:15:03,000 --> 00:15:08,000

But the only thing that's busted is the engine. The tape hasn't budged.

229

00:15:08,000 --> 00:15:13,000

The G-Force alone should have torn that thing apart. But look at that. The hood ornament did not fall off.

230

00:15:13,000 --> 00:15:17,000

I gotta say, I think we're going to have to call this one confirmed.

231

00:15:17,000 --> 00:15:19,000

Absolutely confirmed.

232

00:15:19,000 --> 00:15:21,000

Totally confirmed.

233

00:15:30,000 --> 00:15:35,000

Jamie and Adam have worked out the amount of duct tape they'll need to build a bridge.

234

00:15:35,000 --> 00:15:41,000

But before they decide on a design, they need to know exactly what space they'll be spanning.

235

00:15:41,000 --> 00:15:48,000

This is our chasm. 108 feet from this wall to that wall. It is this distance that we have to span.

236

00:15:48,000 --> 00:15:56,000

This 50-foot drop last featured in the Seasaw Saga, when it became the launching pad for a little girl.

237

00:16:01,000 --> 00:16:07,000

After sizing up the gulp-inducing gap,

238

00:16:07,000 --> 00:16:11,000

Inside is 104 and 2 inches.

239

00:16:11,000 --> 00:16:12,000

Awesome.

240

00:16:12,000 --> 00:16:16,000

They return to base for the plan to span.

241

00:16:16,000 --> 00:16:19,000

Alright. How do you want to do this thing?

242

00:16:19,000 --> 00:16:24,000

Well, I figured this is basically a rope bridge, so let's make a bunch of rope out of duct tape.

243

00:16:24,000 --> 00:16:28,000

Okay, I can see that. We make a bunch of ropey strands.

244

00:16:28,000 --> 00:16:31,000

We could bind a bunch of them together to make the floor.

245

00:16:31,000 --> 00:16:37,000

And then another couple of probably thick strands for a railing. That would actually be pretty stable.

246

00:16:37,000 --> 00:16:42,000

And then we can have some big ones along the side that are stretched top to make it stable.

247

00:16:42,000 --> 00:16:48,000

The small-scale tests showed just five strands of duct tape, eight layers thick,

248

00:16:48,000 --> 00:16:51,000

can support their weight without major droop.

249

00:16:51,000 --> 00:16:55,000

But just to be safe, they'll make their walkway ten layers thick.

250

00:16:55,000 --> 00:16:58,000

Adam's anxious to speed up the taping process.

251

00:16:58,000 --> 00:17:04,000

I'm about to construct what I hope will be the ultimate automatic duct taping machine.

252

00:17:04,000 --> 00:17:08,000

Look out. Adam's just itching to invent.

253

00:17:08,000 --> 00:17:13,000

Step one, some cylinders which fit together, Russian doll style.

254

00:17:13,000 --> 00:17:15,000

Ha ha ha!

255

00:17:15,000 --> 00:17:16,000

Alright.

256

00:17:16,000 --> 00:17:18,000

Attached to a metal strut.

257

00:17:18,000 --> 00:17:19,000

Okay.

258

00:17:19,000 --> 00:17:21,000

Which is welded to a support frame.

259

00:17:21,000 --> 00:17:22,000

It's looking great.

260

00:17:22,000 --> 00:17:29,000

Just add duct tape and, behold, the duct-o-matic, dispensing ten strands simultaneously.

261

00:17:29,000 --> 00:17:30,000

Wow.

262

00:17:30,000 --> 00:17:33,000

It's a new kind of duct tape. Duct tape cables.

263

00:17:33,000 --> 00:17:36,000

Honestly, at this point, I trust my life to that.

264

00:17:36,000 --> 00:17:38,000

I can't wait to show this to Jamie.

265

00:17:38,000 --> 00:17:41,000

He's going to be like, oh, it's a little over a labyrinth.

266

00:17:41,000 --> 00:17:43,000

Don't you think?

267

00:17:43,000 --> 00:17:48,000

Hey, check it out. My ten-roll single-pull duct tape cable maker.

268

00:17:48,000 --> 00:17:54,000

Now that seems to work. I mean, a lot of different ways you could do it, but six to one-half dozen the other, huh?

269

00:17:54,000 --> 00:17:55,000

Yeah.

270

00:17:56,000 --> 00:18:03,000

With Adam basking in Jamie's effusive admiration, they measure out the required distance.

271

00:18:03,000 --> 00:18:05,000

Okay, that's 104 feet to right here.

272

00:18:05,000 --> 00:18:10,000

And get down to some serious bridge building, starting with the floor.

273

00:18:10,000 --> 00:18:13,000

It's like we're making the world's biggest sweater.

274

00:18:13,000 --> 00:18:14,000

Yeah!

275

00:18:14,000 --> 00:18:15,000

Whoo!

276

00:18:16,000 --> 00:18:18,000

Hold on, slow down.

277

00:18:19,000 --> 00:18:21,000

That's a workout.

278

00:18:24,000 --> 00:18:26,000

Yeah!

279

00:18:26,000 --> 00:18:28,000

Best number five. Let's bind them together.

280

00:18:29,000 --> 00:18:35,000

Those five strands, each one ten layers thick, are stuck together to form a narrow walkway.

281

00:18:35,000 --> 00:18:39,000

It may not look like much, but it might just save my life.

282

00:18:39,000 --> 00:18:43,000

Next, Jamie produces a pair of handrails with a twist.

283

00:18:43,000 --> 00:18:44,000

Perfect.

284

00:18:44,000 --> 00:18:47,000

The rope-like cable should give them a good grip.

285

00:18:47,000 --> 00:18:50,000

I like the way that it seems kind of nice and old, don't you?

286

00:18:50,000 --> 00:18:52,000

Yeah, I totally agree.

287

00:18:52,000 --> 00:18:55,000

That's ten strands.

288

00:18:55,000 --> 00:19:01,000

With the walkway, handrails, and stabilizing rails complete, they're all set.

289

00:19:01,000 --> 00:19:04,000

That's the great thing about a duct tape bridge.

290

00:19:04,000 --> 00:19:06,000

It's so portable.

291

00:19:06,000 --> 00:19:08,000

Just fold and roll.

292

00:19:08,000 --> 00:19:10,000

That's not bad. Shall we go build a bridge with it?

293

00:19:10,000 --> 00:19:11,000

I think so.

294

00:19:11,000 --> 00:19:12,000

Okay.

295

00:19:17,000 --> 00:19:20,000

It's the Mythbusters second duct tape special.

296

00:19:23,000 --> 00:19:25,000

Alright, Carrie, why do you look so happy?

297

00:19:25,000 --> 00:19:27,000

Because I love the next duct tape myth.

298

00:19:27,000 --> 00:19:28,000

And what is that?

299

00:19:28,000 --> 00:19:30,000

Well, this was sent in by tons of viewers.

300

00:19:30,000 --> 00:19:33,000

It's that you can stop a car using only duct tape.

301

00:19:33,000 --> 00:19:34,000

What?

302

00:19:34,000 --> 00:19:36,000

Well, the beauty of this is there's two parts of the myth.

303

00:19:36,000 --> 00:19:39,000

The first one is based on a practical joke.

304

00:19:39,000 --> 00:19:43,000

That you can duct tape a car to a telephone pole, and it won't go anywhere.

305

00:19:43,000 --> 00:19:47,000

Technically not stopping a car, but actually preventing it from moving.

306

00:19:47,000 --> 00:19:48,000

Well, technically.

307

00:19:48,000 --> 00:19:50,000

But the second part of this is definitely stopping a car.

308

00:19:50,000 --> 00:19:54,000

It's that you can use one roll of duct tape, build a barrier,

309

00:19:54,000 --> 00:19:56,000

and catch a car going 60 miles an hour.

310

00:19:56,000 --> 00:19:58,000

Now that one I like.

311

00:19:58,000 --> 00:19:59,000

Right?

312

00:19:59,000 --> 00:20:00,000

Right.

313

00:20:00,000 --> 00:20:04,000

The first part of this myth is a prank par excellence.

314

00:20:04,000 --> 00:20:08,000

A devious dude duct tapes his friend's car to a pole.

315

00:20:08,000 --> 00:20:12,000

The victim steps on the gas, but can't escape the grip of the tape.

316

00:20:12,000 --> 00:20:16,000

We all know if we use enough duct tape, you can pretty much stick anything to a pole.

317

00:20:16,000 --> 00:20:20,000

I think the whole point of this is see how we can keep the car stationary

318

00:20:20,000 --> 00:20:22,000

with the least amount of duct tape.

319

00:20:22,000 --> 00:20:25,000

All they need for this one is a car and a convenient pole.

320

00:20:25,000 --> 00:20:27,000

We're not supposed to destroy this one.

321

00:20:27,000 --> 00:20:31,000

That is the last time we carpool together.

322

00:20:31,000 --> 00:20:38,000

Thanks to Adam's earlier test, the team already knows the breaking point of a single strand of tape.

323

00:20:38,000 --> 00:20:42,000

67.3 pounds of force to break it.

324

00:20:42,000 --> 00:20:45,000

All they have to do is determine the car's pulling power

325

00:20:45,000 --> 00:20:49,000

and work out how much tape it'll take to counter that force.

326

00:20:49,000 --> 00:20:53,000

So what we're going to do is get the force meter so that it's not going to move.

327

00:20:53,000 --> 00:20:57,000

So what we're going to do is get the force meter, strap it to the car and attach it to the pole.

328

00:20:57,000 --> 00:20:59,000

Then Grant's going to drive forward.

329

00:20:59,000 --> 00:21:02,000

At the point it stops moving forward.

330

00:21:02,000 --> 00:21:05,000

That is how much force this car pulls with.

331

00:21:05,000 --> 00:21:10,000

Okay, that's 1,300 pounds. It maxed at 1,300.

332

00:21:10,000 --> 00:21:13,000

Let's do the math. The car pulls 1,300 pounds.

333

00:21:13,000 --> 00:21:17,000

One strand of duct tape breaks at 67 pounds.

334

00:21:17,000 --> 00:21:23,000

So in theory, wrapping the car 20 times should be just enough to stop it driving away.

335

00:21:23,000 --> 00:21:25,000

I think we just go for 20 and see if it'll work.

336

00:21:25,000 --> 00:21:28,000

You know, I think this duct tape might actually stop this car.

337

00:21:28,000 --> 00:21:32,000

Tori and Carrie play a prank. For science, you understand.

338

00:21:32,000 --> 00:21:35,000

Hey you kids, what are you doing to my car?

339

00:21:37,000 --> 00:21:45,000

I have the sneaking suspicion that there are going to be prankster victims everywhere that are going to be blaming mythbusters for this myth being true.

340

00:21:45,000 --> 00:21:53,000

And so we say, in the vain hope of pranksters paying the slightest attention, please don't try this at home.

341

00:21:53,000 --> 00:21:54,000

What's this?

342

00:21:54,000 --> 00:21:56,000

In case pole falls on your head.

343

00:21:56,000 --> 00:21:59,000

Okay, Grant, time to rev up this myth.

344

00:21:59,000 --> 00:22:01,000

Wow!

345

00:22:01,000 --> 00:22:02,000

Wow!

346

00:22:02,000 --> 00:22:03,000

100 RPM.

347

00:22:03,000 --> 00:22:05,000

It's 3,000.

348

00:22:05,000 --> 00:22:10,000

We're getting a few breaks there, but it's actually holding the car in place.

349

00:22:10,000 --> 00:22:11,000

Tori!

350

00:22:12,000 --> 00:22:14,000

Woohoo!

351

00:22:16,000 --> 00:22:18,000

He stopped the car, we got you!

352

00:22:18,000 --> 00:22:19,000

Yes!

353

00:22:19,000 --> 00:22:21,000

That's incredible!

354

00:22:21,000 --> 00:22:23,000

With the smoke clears, let's talk about this.

355

00:22:23,000 --> 00:22:25,000

I think it's confirmed!

356

00:22:27,000 --> 00:22:32,000

Just five rolls of tape were enough to keep the car in its pole position.

357

00:22:32,000 --> 00:22:34,000

One strand broke, that was it.

358

00:22:34,000 --> 00:22:35,000

Look at that.

359

00:22:35,000 --> 00:22:37,000

I cannot believe this myth is confirmed.

360

00:22:37,000 --> 00:22:38,000

Confirmed!

361

00:22:38,000 --> 00:22:40,000

Woohoo!

362

00:22:40,000 --> 00:22:41,000

Yeah!

363

00:22:41,000 --> 00:22:42,000

Woohoo!

364

00:22:42,000 --> 00:22:43,000

Woohoo!

365

00:22:43,000 --> 00:22:44,000

Woohoo!

366

00:22:58,000 --> 00:23:02,000

Adam and Jamie are rolling out their duct tape bridge.

367

00:23:02,000 --> 00:23:05,000

These five strips of duct tape are our bridge.

368

00:23:05,000 --> 00:23:09,000

We've got our walkway, we've got two hand rails, and two stabilizing rails.

369

00:23:09,000 --> 00:23:11,000

Why are we hooking them up to these trucks?

370

00:23:11,000 --> 00:23:16,000

Well, we think this stuff is going to stretch, and if it stretches, it droops, and we can't have that.

371

00:23:16,000 --> 00:23:22,000

So we're going to pre-assemble it up here on the trucks and pre-stretch it before we put it across the span.

372

00:23:23,000 --> 00:23:29,000

They'll attach the walkway, hand rails, and stabilizing ropes to heavy-duty steel anchor points.

373

00:23:29,000 --> 00:23:37,000

When it comes time to walk, those frames will anchor either end of the bridge and help keep the duct tape under tension.

374

00:23:37,000 --> 00:23:41,000

Pre-stretching the duct tape should prevent any sudden sag.

375

00:23:42,000 --> 00:23:49,000

With the bridge suspended between the pickups, Adam and Jamie go through their pre-walk stretching routine.

376

00:23:51,000 --> 00:23:53,000

I think this is going to work!

377

00:23:53,000 --> 00:24:00,000

Hoping to take all the elasticity out of the duct tape before they venture out over a 50-foot drop.

378

00:24:01,000 --> 00:24:04,000

Pre-stretching this bridge is turning out to be a little trickier than we thought.

379

00:24:04,000 --> 00:24:08,000

The different components are stretching at different rates under different loads.

380

00:24:09,000 --> 00:24:11,000

We're just going to do the best we can and hope that it works.

381

00:24:16,000 --> 00:24:19,000

When they take their first few practice steps...

382

00:24:19,000 --> 00:24:21,000

That's kind of how you used to go to grade school, right?

383

00:24:24,000 --> 00:24:25,000

I don't want to do that.

384

00:24:25,000 --> 00:24:28,000

It's immediately clear they're going to need more tape.

385

00:24:28,000 --> 00:24:29,000

Oh my gosh.

386

00:24:29,000 --> 00:24:33,000

Yeah, I think we do want to add in some stringers between these things on the floor.

387

00:24:34,000 --> 00:24:38,000

Because you could be all like, whoa, good on your matamale!

388

00:24:38,000 --> 00:24:41,000

Dude, whoa, yeah, see, I... whoa!

389

00:24:50,000 --> 00:24:52,000

This is going to be terrifying.

390

00:24:53,000 --> 00:24:58,000

Duck tape crust ruts between the walkway and handrails will minimize wobble.

391

00:24:58,000 --> 00:25:03,000

And with those last-minute structural improvements, the bridge is ready to go.

392

00:25:03,000 --> 00:25:07,000

196 rolls of duct tape, almost 400 pounds of the stuff,

393

00:25:07,000 --> 00:25:11,000

and our bridge is pretty much ready to string across the chasm.

394

00:25:11,000 --> 00:25:18,000

Now, I've marked the midpoint here because, in my opinion, it's once we pass this point that I think we're home free.

395

00:25:18,000 --> 00:25:23,000

See, this point, being the farthest from both ends, is actually where this bridge could cause us the most trouble.

396

00:25:23,000 --> 00:25:28,000

It could possibly turn turtle and flip us over when we get here.

397

00:25:28,000 --> 00:25:33,000

Getting the pre-assembled bridge across the chasm is a feat in itself.

398

00:25:33,000 --> 00:25:38,000

They lower one end into the dry dock, haul it 100 feet to the other side,

399

00:25:38,000 --> 00:25:45,000

then use some heavy machinery to do some heavy lifting, all without damaging the duct tape.

400

00:25:46,000 --> 00:25:48,000

It's one thing to see it on the ground.

401

00:25:48,000 --> 00:25:52,000

Quite another, watching it go up across the chasm.

402

00:25:52,000 --> 00:25:56,000

Not many people know that Jamie has actually performed surgery with a forklift.

403

00:25:57,000 --> 00:26:06,000

With the aggro points locked down, Adam and Jamie finally bridge the gap between duct tape fantasy and duct tape reality.

404

00:26:06,000 --> 00:26:08,000

You know what that is, my friend?

405

00:26:08,000 --> 00:26:10,000

That's a bridge.

406

00:26:10,000 --> 00:26:12,000

That is a bridge.

407

00:26:18,000 --> 00:26:24,000

It's always a good day for us when we're able to use tools and materials in ways for which they were never intended.

408

00:26:24,000 --> 00:26:32,000

The duct tape bridge, well, I daresay the guy that invented this stuff had no intent whatsoever to use it to make bridges with.

409

00:26:32,000 --> 00:26:36,000

Will it work? There's only one way to find out.

410

00:26:40,000 --> 00:26:42,000

Don't try anything you've seen on the show at home.

411

00:26:42,000 --> 00:26:44,000

We are what you call experts.

412

00:26:47,000 --> 00:26:51,000

Just five rolls of duct tape can keep a car parked.

413

00:26:51,000 --> 00:26:56,000

Now, Grant, Tori and Carrie want to supersize this automotive myth.

414

00:26:56,000 --> 00:27:01,000

How crazy is this myth that you can catch a car using a single roll of duct tape?

415

00:27:01,000 --> 00:27:03,000

Yeah, that does seem a little ridiculous.

416

00:27:03,000 --> 00:27:06,000

But I mean, you saw how well it held the car together when you were driving around like a maniac.

417

00:27:06,000 --> 00:27:08,000

Maybe we just wrap it around two telephone poles.

418

00:27:08,000 --> 00:27:10,000

Versus a car going 60?

419

00:27:10,000 --> 00:27:13,000

I have seen crazier things on this show. Let's do it.

420

00:27:13,000 --> 00:27:16,000

Tori, Carrie and Grant are on the road again.

421

00:27:17,000 --> 00:27:23,000

Telephone poles are few and far between out here, so they'll use something a little more concrete.

422

00:27:23,000 --> 00:27:28,000

We're setting up K-Rail in an arrow formation. This is going to serve two purposes.

423

00:27:28,000 --> 00:27:37,000

One, it's going to hold our single roll of duct tape car catcher, as well as serve as a barrier for anything that may go out of control.

424

00:27:37,000 --> 00:27:44,000

The tape is wound around half-inch thick steel rods, forming a single strand, five layers thick.

425

00:27:45,000 --> 00:27:51,000

And at this point, this fan fable doesn't just look dubious, it looks patently ridiculous.

426

00:27:51,000 --> 00:27:52,000

And then some.

427

00:27:52,000 --> 00:27:59,000

Duct tape can do a lot of things, but stopping a car at 60 miles an hour with one roll, I seriously doubt it.

428

00:27:59,000 --> 00:28:01,000

Ready to put your life on the line for science?

429

00:28:01,000 --> 00:28:04,000

Oh, I'm ready. Do we really need helmets on?

430

00:28:04,000 --> 00:28:06,000

Yes. I'm going to go watch from a safe place.

431

00:28:08,000 --> 00:28:10,000

Okay, I'm ready. Are you in position?

432

00:28:10,000 --> 00:28:11,000

Stand by.

433

00:28:12,000 --> 00:28:15,000

Okay, this is single roll of duct tape on your go.

434

00:28:15,000 --> 00:28:17,000

Okay, here we go.

435

00:28:17,000 --> 00:28:19,000

Tori hits the gas.

436

00:28:22,000 --> 00:28:24,000

The car hits the duct tape.

437

00:28:26,000 --> 00:28:28,000

And the myth hits the mech atom.

438

00:28:28,000 --> 00:28:31,000

Okay, so maybe you didn't need the helmets.

439

00:28:31,000 --> 00:28:34,000

I didn't even get up to 60 miles an hour. That was like 40.

440

00:28:34,000 --> 00:28:35,000

Oh well.

441

00:28:35,000 --> 00:28:36,000

I can't believe it, bro.

442

00:28:36,000 --> 00:28:39,000

We couldn't stop a car with a single roll of duct tape.

443

00:28:39,000 --> 00:28:42,000

All right, well, let's do what we do on this show and supersize it.

444

00:28:42,000 --> 00:28:46,000

Yeah, but I mean, we could build a wall 10 feet thick with duct tape, and that should stop a car.

445

00:28:46,000 --> 00:28:47,000

I mean, where do we draw the line?

446

00:28:47,000 --> 00:28:51,000

Well, that's kind of totally impractical. Let's see what we could do in a day.

447

00:28:51,000 --> 00:28:53,000

I mean, maybe 100 rolls of duct tape.

448

00:28:53,000 --> 00:28:54,000

All right, sounds great.

449

00:28:54,000 --> 00:28:55,000

So this is how we're going to do it.

450

00:28:55,000 --> 00:29:03,000

We have two pipes on either side here, and we're going to wrap the duct tape around it until it's thick enough to the point where we think it's going to stop the car.

451

00:29:04,000 --> 00:29:12,000

Back at Alameda, they've got a solid wall three inches thick made from a hundred rolls of duct tape.

452

00:29:12,000 --> 00:29:15,000

Well, that is one thick wall of duct tape.

453

00:29:18,000 --> 00:29:22,000

No one's willing to drive into this duct tape barrier, so they've got a plan.

454

00:29:22,000 --> 00:29:26,000

Now, in order to get the car to hit the barrier, we're going to tow it.

455

00:29:26,000 --> 00:29:31,000

And Tori's made a tow bar that's going to keep the car going in exactly the direction we want it to go.

456

00:29:31,000 --> 00:29:37,000

Now, at the bottom of the wall, right dead center is a steel plate, and connected to that plate is a pulley.

457

00:29:37,000 --> 00:29:47,000

The tow cable is going to go through that pulley so that as we tow the car towards the barrier, it's going to want to center right on that pulley and aim right for the wall.

458

00:29:47,000 --> 00:29:51,000

And just in case the cable comes loose, the car goes AWOL.

459

00:29:51,000 --> 00:29:53,000

How I've missed you so.

460

00:29:53,000 --> 00:29:56,000

Grants brought along an old friend.

461

00:29:57,000 --> 00:30:01,000

What this radio is doing is sending a signal to a receiver on the roof.

462

00:30:01,000 --> 00:30:04,000

The receiver on the roof controls a solenoid valve down here.

463

00:30:04,000 --> 00:30:07,000

Solenoid valve provides air to this cylinder.

464

00:30:07,000 --> 00:30:14,000

Now, when I turn this off, it actually takes the foot off the brake and allows the car to roll.

465

00:30:14,000 --> 00:30:19,000

When I go safe, it deploys the brake automatically and the car stops.

466

00:30:19,000 --> 00:30:22,000

With the car under Grants control, they're good to go.

467

00:30:22,000 --> 00:30:29,000

It's got the car right here. It's running. The brakes are on. All they need to do is flip this switch and it disengages the brakes and it's ready to go.

468

00:30:29,000 --> 00:30:38,000

And at that point, the tow vehicle will hit the accelerator pulling that car down the track through the pulley system headed straight for our wall of duct tape.

469

00:30:38,000 --> 00:30:41,000

Alright, here we go. Carrying brake is off.

470

00:30:41,000 --> 00:30:45,000

He's into it in three, two, one, go.

471

00:30:45,000 --> 00:30:52,000

Here it comes.

472

00:30:52,000 --> 00:30:57,000

The pickup picks up speed. 60 miles per hour.

473

00:30:57,000 --> 00:31:02,000

The test car hurdles towards a date with duct tape destiny.

474

00:31:02,000 --> 00:31:08,000

But at the last second, the experiment hits a bit of a snag.

475

00:31:08,000 --> 00:31:15,000

Somehow, the car hit everything except the wall of duct tape. What happened?

476

00:31:15,000 --> 00:31:22,000

I thought I saw the tow cable slip off of the guide car, but it was just a car length before the K-rails.

477

00:31:22,000 --> 00:31:27,000

The cable came through so late, Grant didn't even have time to hit the brakes.

478

00:31:27,000 --> 00:31:31,000

But there is some good news. The duct tape barriers undamaged.

479

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

So we are going to go for a ride.

480

00:31:34,000 --> 00:31:41,000

We're going to take this failure, figure out how to fix it, and we're going to try it again because we are not giving up here.

481

00:31:41,000 --> 00:31:43,000

Looking great. Right on target.

482

00:31:43,000 --> 00:31:48,000

Still ahead, more duct tape demolition.

483

00:31:48,000 --> 00:31:54,000

Carry, Tori and Grant want to see if a duct tape super barrier can stop a speeding car.

484

00:31:54,000 --> 00:31:58,000

But on their first attempt, failure won't stop.

485

00:31:59,000 --> 00:32:05,000

We lost the connection between our tow vehicle and this vehicle and it veered to the right and crashed.

486

00:32:05,000 --> 00:32:09,000

Now what we're going to do is just put a rope clip on there so it's not going to come off.

487

00:32:09,000 --> 00:32:13,000

And we've moved our breakaway line up to the tow vehicle itself.

488

00:32:13,000 --> 00:32:19,000

So if anything gets caught in the pulley, that breakaway cable will break away and everybody will be safe.

489

00:32:19,000 --> 00:32:21,000

And we're going to go for a ride.

490

00:32:21,000 --> 00:32:27,000

So if anything gets caught in the pulley, that breakaway cable will break away and everybody will be safe.

491

00:32:27,000 --> 00:32:32,000

They're not about to let rain dampen their quest for duct tape data.

492

00:32:32,000 --> 00:32:33,000

Here we go.

493

00:32:33,000 --> 00:32:39,000

The test car is soon taxing down the runway with Tori and Grant in hot pursuit.

494

00:32:39,000 --> 00:32:42,000

It's got it, it's got it, it's got it.

495

00:32:42,000 --> 00:32:53,000

That was awesome! Yeah!

496

00:32:55,000 --> 00:33:01,000

Once again, the car brought the K-Rank but it also wiped out the duct tape wall, didn't it?

497

00:33:01,000 --> 00:33:05,000

So it looks like the duct tape wall wasn't strong enough to stop the car.

498

00:33:05,000 --> 00:33:06,000

Dude, check it.

499

00:33:07,000 --> 00:33:11,000

Oh no! The wall is still together.

500

00:33:11,000 --> 00:33:13,000

I think we've got a problem.

501

00:33:13,000 --> 00:33:15,000

It just broke away from the K-Rail.

502

00:33:15,000 --> 00:33:18,000

You know what? I think we better take a look at the high speed and see what happened.

503

00:33:18,000 --> 00:33:19,000

Alright.

504

00:33:19,000 --> 00:33:25,000

The duct tape wall stayed intact and it ripped it out of the K-Rail.

505

00:33:25,000 --> 00:33:30,000

I can't believe that. I mean that's a huge amount of shock that absorbed right there.

506

00:33:30,000 --> 00:33:34,000

While the guys are absorbing the shock of another failed test,

507

00:33:34,000 --> 00:33:38,000

the fact that the wall is still in one piece after being hit by the car

508

00:33:38,000 --> 00:33:42,000

means this myth has a definite whiff of plausibility.

509

00:33:47,000 --> 00:33:53,000

We're about to find out if Jamie and Adam can walk the walk on the world's most unusual bridge.

510

00:33:53,000 --> 00:33:57,000

We have spanned a hundred foot chasm with nothing but duct tape.

511

00:33:57,000 --> 00:34:03,000

Soon we will take that long walk into duct tape history.

512

00:34:04,000 --> 00:34:08,000

And just in case that walk becomes a plunge,

513

00:34:08,000 --> 00:34:12,000

a crane mounted safety rig will turn them into human tignatas.

514

00:34:12,000 --> 00:34:13,000

Yeah, this will work.

515

00:34:13,000 --> 00:34:14,000

I'm having a great time.

516

00:34:15,000 --> 00:34:17,000

Here's the thing about the safety system.

517

00:34:17,000 --> 00:34:20,000

I know that this yoyo fall arrestor will save my life,

518

00:34:20,000 --> 00:34:24,000

but if this bridge should fail and it has to save my life,

519

00:34:24,000 --> 00:34:27,000

I'm going to be swinging, I'm going to fall and get pulled up short.

520

00:34:27,000 --> 00:34:31,000

Either way, it's going to be terrifying and it's going to hurt.

521

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

It's not just pride that makes me not want this bridge to fail.

522

00:34:34,000 --> 00:34:36,000

Our small scale tests say it should hold.

523

00:34:36,000 --> 00:34:40,000

We've done the math, everything should be fine, but it's duct tape.

524

00:34:40,000 --> 00:34:41,000

What are you going to do?

525

00:34:42,000 --> 00:34:45,000

Adam's a little lighter than Jamie, so he's going first.

526

00:34:45,000 --> 00:34:47,000

It'll be less stress on the tape.

527

00:34:48,000 --> 00:34:54,000

Just remember, if you hear a ripping sound, run really fast for the other side.

528

00:34:54,000 --> 00:34:55,000

Thanks for nothing.

529

00:34:55,000 --> 00:34:56,000

Good luck.

530

00:34:56,000 --> 00:34:57,000

Thanks.

531

00:34:58,000 --> 00:34:59,000

Here we go.

532

00:34:59,000 --> 00:35:06,000

Nearly 200 rolls of duct tape, a 50-foot drop and one 175-pound myth buster.

533

00:35:06,000 --> 00:35:07,000

All for the glory.

534

00:35:08,000 --> 00:35:09,000

All right.

535

00:35:10,000 --> 00:35:11,000

Here we go.

536

00:35:13,000 --> 00:35:14,000

Oh.

537

00:35:19,000 --> 00:35:20,000

Oh.

538

00:35:21,000 --> 00:35:23,000

Hey, I don't mind saying I'm kind of freaked out.

539

00:35:24,000 --> 00:35:25,000

Oh.

540

00:35:26,000 --> 00:35:30,000

All right, it feels pretty solid and it's not hard for me to stay upright.

541

00:35:30,000 --> 00:35:32,000

The handles are working just great.

542

00:35:32,000 --> 00:35:35,000

My heart's beating about 175 times a minute though.

543

00:35:35,000 --> 00:35:36,000

Whoa.

544

00:35:38,000 --> 00:35:41,000

People walk on bridges like this every day?

545

00:35:42,000 --> 00:35:44,000

This is terrifying.

546

00:35:44,000 --> 00:35:48,000

Nearing the middle of the bridge, he enters the real danger zone.

547

00:35:48,000 --> 00:35:53,000

This is where the duct tapes most likely to fail and flip Adam into thin air.

548

00:35:53,000 --> 00:35:55,000

I'm passing halfway.

549

00:35:55,000 --> 00:35:58,000

So, I've passed the danger of turtling.

550

00:36:00,000 --> 00:36:03,000

Oh dude, this is rough.

551

00:36:05,000 --> 00:36:07,000

You've got about 10 feet to go.

552

00:36:07,000 --> 00:36:09,000

Oh, now it feels much more stable.

553

00:36:09,000 --> 00:36:10,000

Now I feel okay.

554

00:36:11,000 --> 00:36:16,000

Two and a half minutes after starting out, Adam sets foot on solid ground.

555

00:36:16,000 --> 00:36:18,000

Hey, good to see you.

556

00:36:18,000 --> 00:36:21,000

Oh, land feels good.

557

00:36:21,000 --> 00:36:23,000

Good land, good solid ground.

558

00:36:23,000 --> 00:36:25,000

It's another world first.

559

00:36:25,000 --> 00:36:30,000

He's just crossed a hundred foot chasm on a bridge made of duct tape.

560

00:36:32,000 --> 00:36:35,000

I wouldn't have called this, but I actually felt quite stable out at the center.

561

00:36:35,000 --> 00:36:37,000

And for the first 15 or 20 feet.

562

00:36:37,000 --> 00:36:44,000

But the first third and the last third were really the roughest patch where the thing moves around a lot more than feels good.

563

00:36:44,000 --> 00:36:46,000

All right, your turn.

564

00:36:47,000 --> 00:36:50,000

Jamie steadies himself to make the return journey.

565

00:36:50,000 --> 00:36:52,000

Adam found it terrifying.

566

00:36:52,000 --> 00:36:56,000

I'm going to find it a lot worse than terrifying because I really don't like heights.

567

00:36:58,000 --> 00:37:02,000

His slightly heavier frame will put added stress on the duct tape.

568

00:37:02,000 --> 00:37:05,000

Oh gosh, here we go.

569

00:37:05,000 --> 00:37:11,000

And as soon as he puts his best foot forward, it's clear this won't be a smooth crossing.

570

00:37:11,000 --> 00:37:14,000

Now I know what it feels like to be a spider.

571

00:37:14,000 --> 00:37:17,000

Or maybe is it a bug in a spider web?

572

00:37:21,000 --> 00:37:23,000

That really is quite hairy.

573

00:37:27,000 --> 00:37:32,000

A third of the way across and Jamie's struggling to maintain his balance.

574

00:37:33,000 --> 00:37:44,000

This wiggling around is kind of something I don't want to be doing.

575

00:37:50,000 --> 00:37:52,000

Honestly, I'm not sure he's going to make it.

576

00:37:52,000 --> 00:37:56,000

Both Jamie and the bridge are teetering on the brink of failure.

577

00:37:56,000 --> 00:37:59,000

Oh, there's more ripped tape.

578

00:38:03,000 --> 00:38:05,000

TORRY GRANT AND CARRIER

579

00:38:11,000 --> 00:38:17,000

Torry, Grant and Carrie are hoping it'll be third time lucky for their duct tape roadblock.

580

00:38:17,000 --> 00:38:21,000

It's the same setup with one or two heavy duty add-ons.

581

00:38:21,000 --> 00:38:27,000

We have shackles rated at 30,000 pounds connecting our duct tape barrier to our carials.

582

00:38:27,000 --> 00:38:29,000

This should do the job.

583

00:38:29,000 --> 00:38:36,000

With Torry's tow bar and Grant's RC braking system good to go, car number three is ready for takeoff.

584

00:38:36,000 --> 00:38:38,000

Great, you ready? I'm ready.

585

00:38:38,000 --> 00:38:45,000

Okay, brake is off. Here we go. In three, two, one, hit it.

586

00:38:47,000 --> 00:38:51,000

Good, got a good start. Just getting up good speed.

587

00:38:51,000 --> 00:38:52,000

20.

588

00:38:52,000 --> 00:38:54,000

Carrie picks up the pace.

589

00:38:54,000 --> 00:38:56,000

Looking great. Right on target.

590

00:38:56,000 --> 00:38:58,000

Really good. Really good.

591

00:38:58,000 --> 00:39:00,000

Oh, we're going to do it this time, dude.

592

00:39:00,000 --> 00:39:01,000

This is it.

593

00:39:06,000 --> 00:39:08,000

The car hit the duct tape dead on.

594

00:39:12,000 --> 00:39:14,000

That was worth all that suffering.

595

00:39:16,000 --> 00:39:18,000

Oh my gosh.

596

00:39:19,000 --> 00:39:20,000

Look at that.

597

00:39:20,000 --> 00:39:22,000

That was right through.

598

00:39:22,000 --> 00:39:25,000

What would you say? Three inches? Two and a half inches of duct tape?

599

00:39:25,000 --> 00:39:26,000

Easily.

600

00:39:26,000 --> 00:39:28,000

Oh, that's three inches for sure.

601

00:39:28,000 --> 00:39:31,000

But the duct tape didn't give up without a fight.

602

00:39:31,000 --> 00:39:35,000

Despite being hit with a force totaling nearly 300,000 foot-pounds,

603

00:39:35,000 --> 00:39:41,000

the barrier still stretched like a piece of elastic before finally snapping.

604

00:39:43,000 --> 00:39:47,000

The wall stretched four to six feet before it gave up,

605

00:39:47,000 --> 00:39:50,000

just like it's supposed to all that time absorbing energy.

606

00:39:50,000 --> 00:39:54,000

Still an amazing product, but nope, not able to stop the car.

607

00:39:54,000 --> 00:39:57,000

Now sure we could have made one that was two feet thick,

608

00:39:57,000 --> 00:40:02,000

but let's face it, we bust up the K-rail and that stuff is made to stop cars.

609

00:40:02,000 --> 00:40:04,000

Looks like this one's busted.

610

00:40:04,000 --> 00:40:06,000

We found something duct tape finally can't do.

611

00:40:12,000 --> 00:40:13,000

Man.

612

00:40:13,000 --> 00:40:15,000

We got enough duct tape left over to fix that thing.

613

00:40:15,000 --> 00:40:16,000

Man.

614

00:40:22,000 --> 00:40:25,000

Meanwhile, Jamie's trapped in a nightmare.

615

00:40:25,000 --> 00:40:29,000

He's finding out the hard way that one of duct tape's main features,

616

00:40:29,000 --> 00:40:34,000

its elasticity, isn't so great when you're 50 feet off the ground.

617

00:40:37,000 --> 00:40:40,000

Every movement triggers more vibration.

618

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

It's taking all his strength just to stay upright.

619

00:40:43,000 --> 00:40:45,000

I'm going to sit here and rest a second.

620

00:40:45,000 --> 00:40:46,000

Okay.

621

00:40:47,000 --> 00:40:50,000

Despite pre-stretching the tape's losing tension,

622

00:40:50,000 --> 00:40:53,000

Andy hasn't even made it to the perilous midpoint.

623

00:40:53,000 --> 00:40:56,000

Man, you passed that halfway point.

624

00:40:56,000 --> 00:40:58,000

Is that all?

625

00:40:58,000 --> 00:41:01,000

It feels like I've been going for a mile.

626

00:41:03,000 --> 00:41:06,000

I don't mind saying I'm hyperventilating.

627

00:41:08,000 --> 00:41:12,000

The bridge is so unstable, he must inch his way to safety.

628

00:41:14,000 --> 00:41:18,000

It's taken him four times longer than Adam,

629

00:41:18,000 --> 00:41:22,000

but Jamie finally makes it back to Terra Ferma.

630

00:41:22,000 --> 00:41:24,000

Ladies and gentlemen, they are made of brass.

631

00:41:24,000 --> 00:41:26,000

James Heineman, congratulations!

632

00:41:28,000 --> 00:41:30,000

That is absolutely awful.

633

00:41:31,000 --> 00:41:33,000

That's really saying something,

634

00:41:33,000 --> 00:41:36,000

given the other fears he's faced in the name of myth-busting.

635

00:41:37,000 --> 00:41:38,000

I've been buried alive.

636

00:41:38,000 --> 00:41:41,000

I've been charged by great white sharks.

637

00:41:42,000 --> 00:41:46,000

This thing here is terrifying in a totally different way.

638

00:41:48,000 --> 00:41:51,000

It's not so bad walking across something like this,

639

00:41:51,000 --> 00:41:53,000

just like going over the heights with it.

640

00:41:53,000 --> 00:41:57,000

The problem is that you're just on the verge

641

00:41:57,000 --> 00:42:02,000

when you get a little ways out into it of losing balance.

642

00:42:02,000 --> 00:42:06,000

It's like there's nothing solid to hold on to.

643

00:42:07,000 --> 00:42:12,000

Walking across it is this constant, intense correction

644

00:42:12,000 --> 00:42:16,000

to try and dampen out the wiggly waves

645

00:42:16,000 --> 00:42:18,000

that you're setting up on these ropes.

646

00:42:18,000 --> 00:42:23,000

Viewing both walks, it's clear Adam was on a much firmer footing.

647

00:42:23,000 --> 00:42:26,000

Why was the bridge so wobbly for me?

648

00:42:26,000 --> 00:42:29,000

Could be me, could be the material, though.

649

00:42:29,000 --> 00:42:32,000

We do know that it stretches out quite a bit under a load,

650

00:42:32,000 --> 00:42:35,000

and Adam did in fact put a load on it.

651

00:42:35,000 --> 00:42:37,000

One way or another, it worked,

652

00:42:37,000 --> 00:42:40,000

but it's not an ideal material for a bridge.

653

00:42:44,000 --> 00:42:46,000

I gotta say I'm pretty impressed with this stuff.

654

00:42:46,000 --> 00:42:50,000

It's a bridge, it's a rope, it can shoot, it can float.

655

00:42:50,000 --> 00:42:54,000

Just two sides and infinite possibilities.

656

00:42:56,000 --> 00:42:59,000

Verdict, is there anything duct tape can't do?

657

00:42:59,000 --> 00:43:02,000

Two episodes and counting, almost nothing.

658

00:43:02,000 --> 00:43:04,000

You know we're far from finished,

659

00:43:04,000 --> 00:43:07,000

we're going to find crazier crap to do with this stuff.

660

00:43:07,000 --> 00:43:10,000

Yeah, but that's another episode. Let's go.

661

00:43:13,000 --> 00:43:16,000

I think we need to get airborne with this stuff.

662

00:43:16,000 --> 00:43:18,000

Absolutely.

663

00:43:26,000 --> 00:43:27,000

Want more?

664

00:43:27,000 --> 00:43:31,000

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