Checking Where a Tile Joint Breaks

Scoring guide · one credit per question · review written work against each rubric

Checking Where a Tile Joint Breaks

Question 1

Choice (2)

Only the specimen with P failed at its adhesive joint.

Question 2

Select Does not establish the claim. The Q joint remains intact when the tile breaks at 40 N. The test shows that the joint withstands 40 N, but it does not measure the force that breaks the joint.

Question 3

Use the same Q joint area and surfaces with the reinforced ceramic. Increase the pulling force to 50 N while checking for failure at the joint. An intact joint at 50 N meets the requirement. A joint failure below 50 N does not. Record the load and the location of any break.

Question 4

In the original trial the unreinforced ceramic failed at 40 N and the joint stayed intact. In the reinforced trial the tile held beyond 40 N, so the test reached the 56 N load where the Q joint failed.