

Printable AprilTags for Model C2

In very uniform areas, such as long plain corridors or rows of identical racking, AprilTags give Model C2's camera fixed reference points, so it always knows where it is. This file holds tags 1 to 50 of the AprilTag 36h11 family, one per page, ready to print.

1. Print

1. Print the pages you need on plain white paper, preferably with a laser printer.
2. Print at **100% / Actual size**. Turn off "Fit to page", "Shrink oversized pages" and any other scaling.
3. Measure the black square of a printed tag with a ruler: it must be exactly **150 mm**, the same as the bar under it. If not, check the scaling settings and print again.

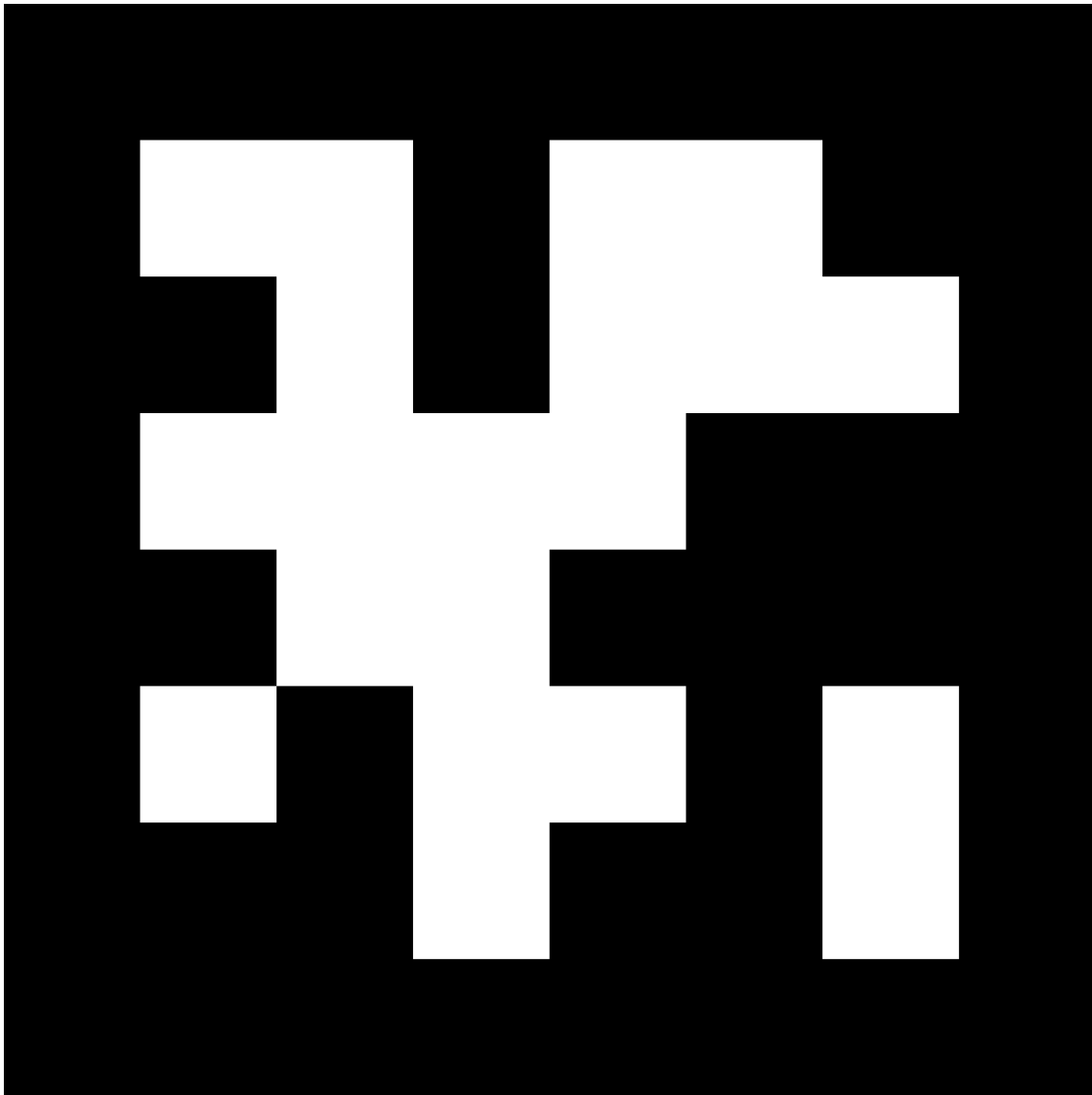
2. Prepare

1. Laminate the tags (matte if possible, to avoid glare) so they stay flat and readable.
2. Trim along the dashed line if you like: it keeps the white border the camera needs around the black square.

3. Put them up, then map

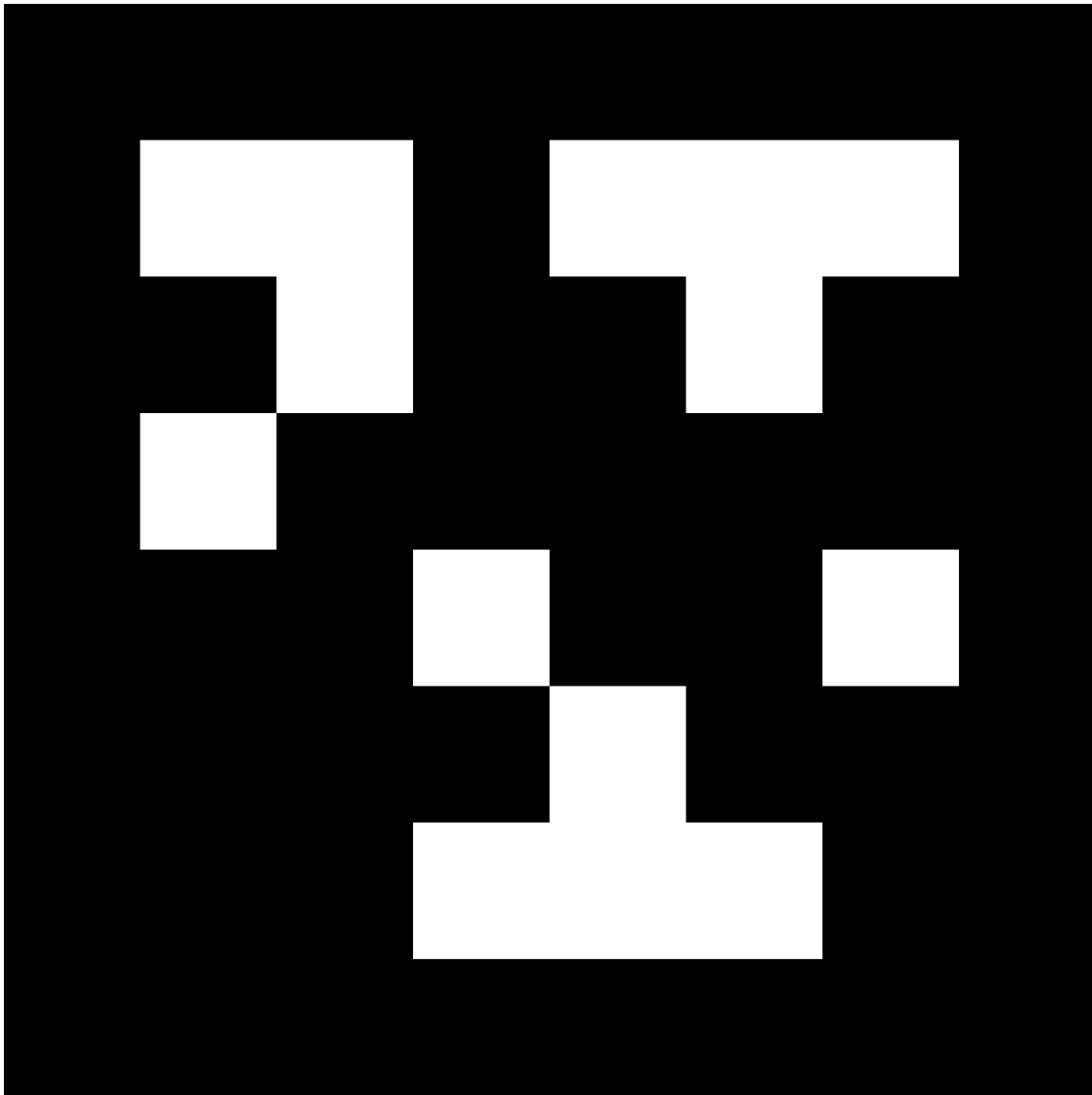
1. Mount each tag flat on a permanent surface, such as a wall or structural pillar, **3–4 ft (0.9–1.2 m)** above the floor and **6–12 in (15–30 cm)** above or below the cart's front camera, not level with it: the camera reads a tag best at a slight angle.
2. Choose spots the cart can see clearly along its usual paths.
3. **Use each ID only once** in a facility: duplicates make the cart jump on its map.
4. Put the tags up **before** making or updating the map. During mapping, each tag the camera links to the map appears as a green line on the mapping graph. No other setup is needed.

Once the map is saved, don't move a tag. To move one, remap that area. Tag ID 0 is not supported and isn't included.



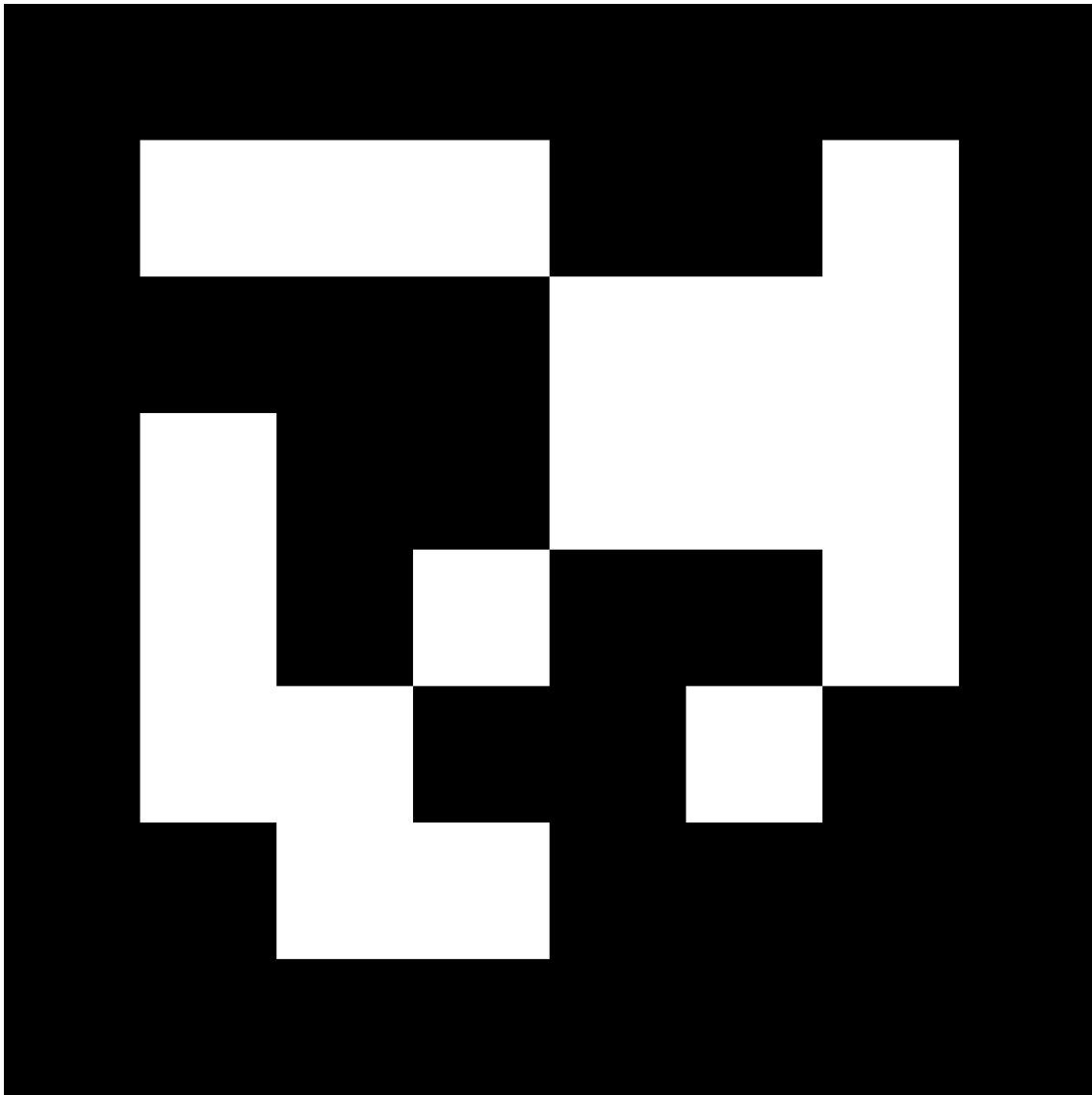
ID 1

This bar and the black square should both measure **150 mm**



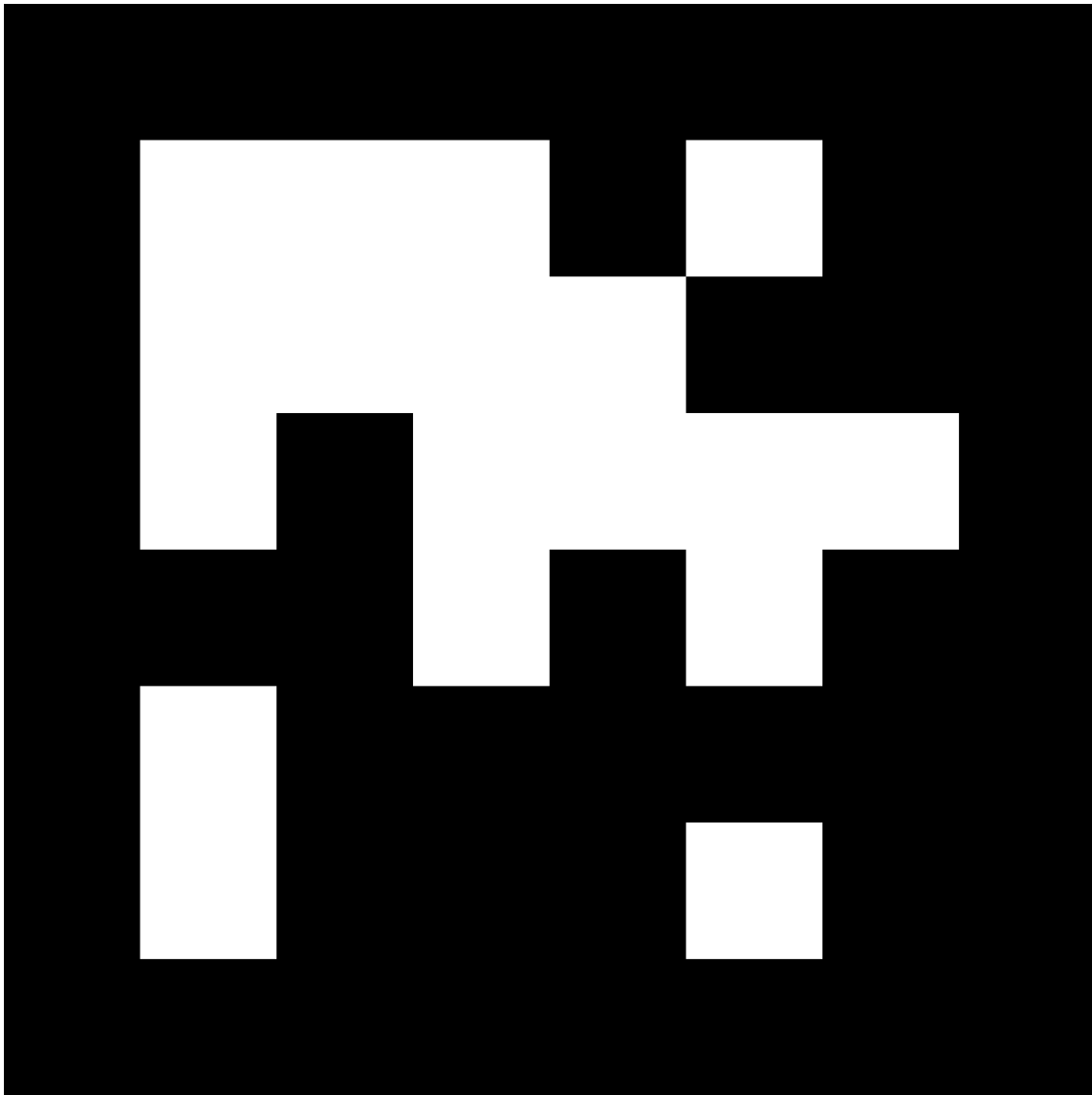
ID 2

This bar and the black square should both measure **150 mm**



ID 3

This bar and the black square should both measure **150 mm**



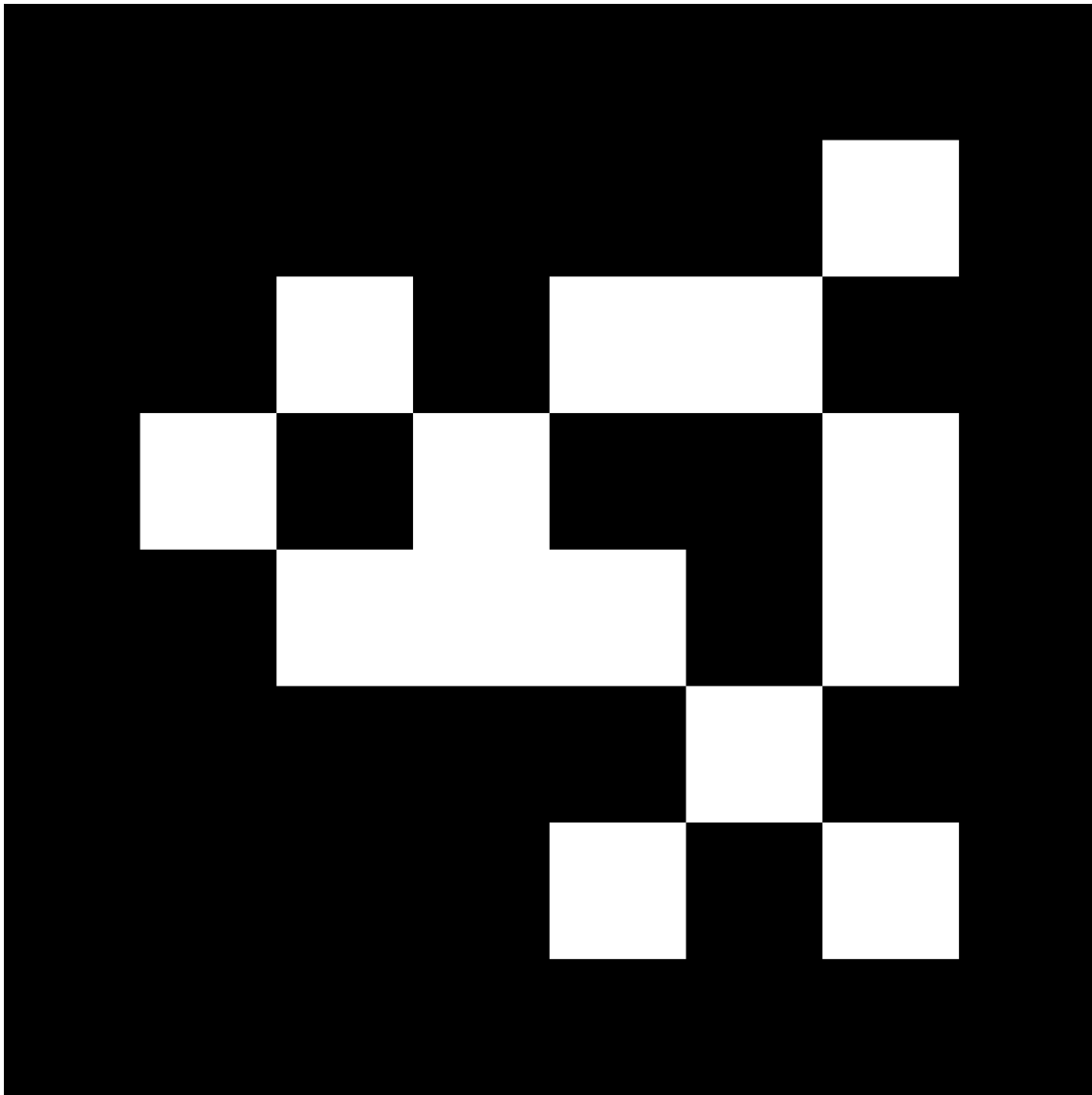
ID 4

This bar and the black square should both measure **150 mm**



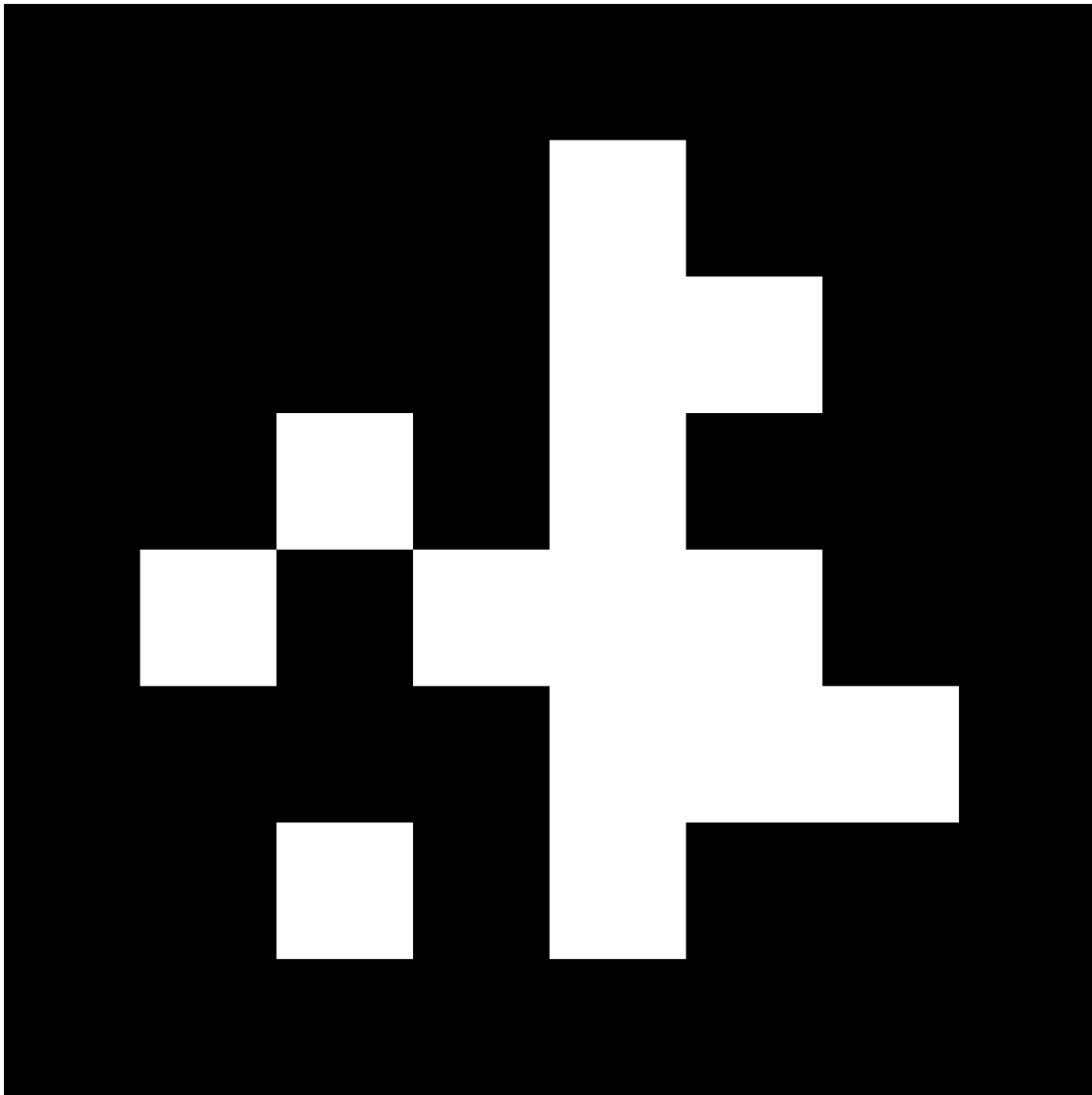
ID 5

This bar and the black square should both measure **150 mm**



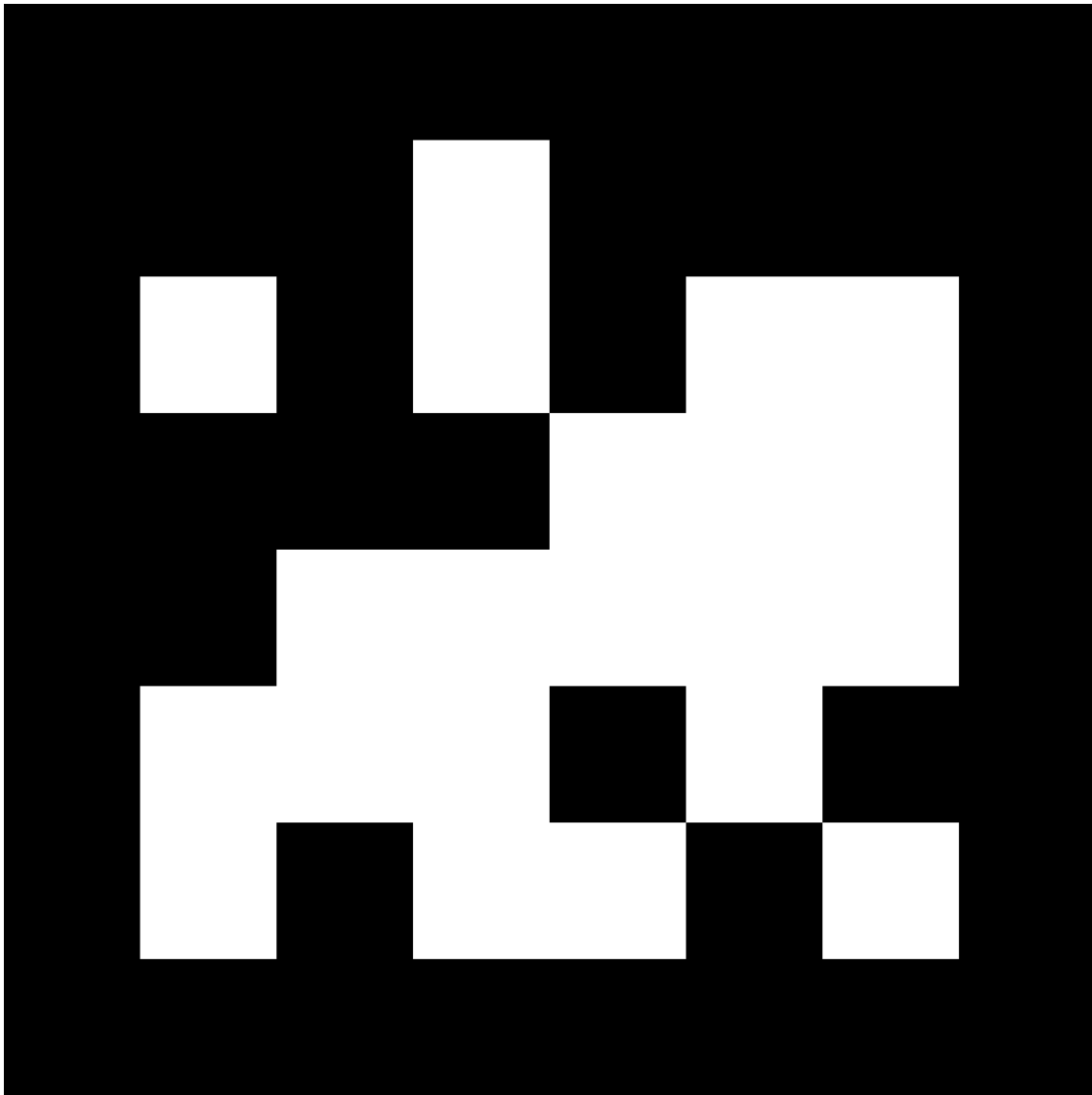
ID 6

This bar and the black square should both measure **150 mm**



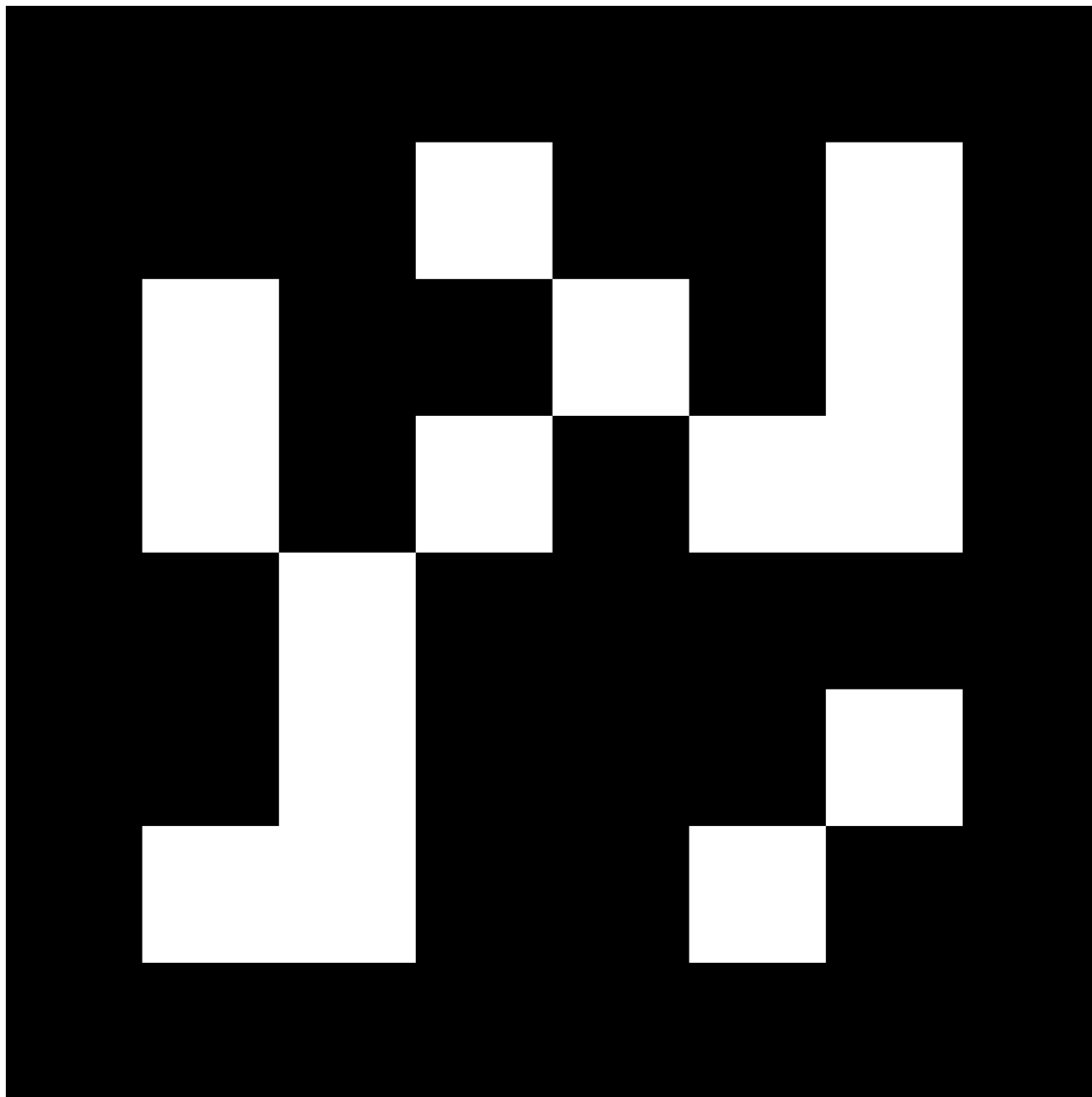
ID 7

This bar and the black square should both measure **150 mm**



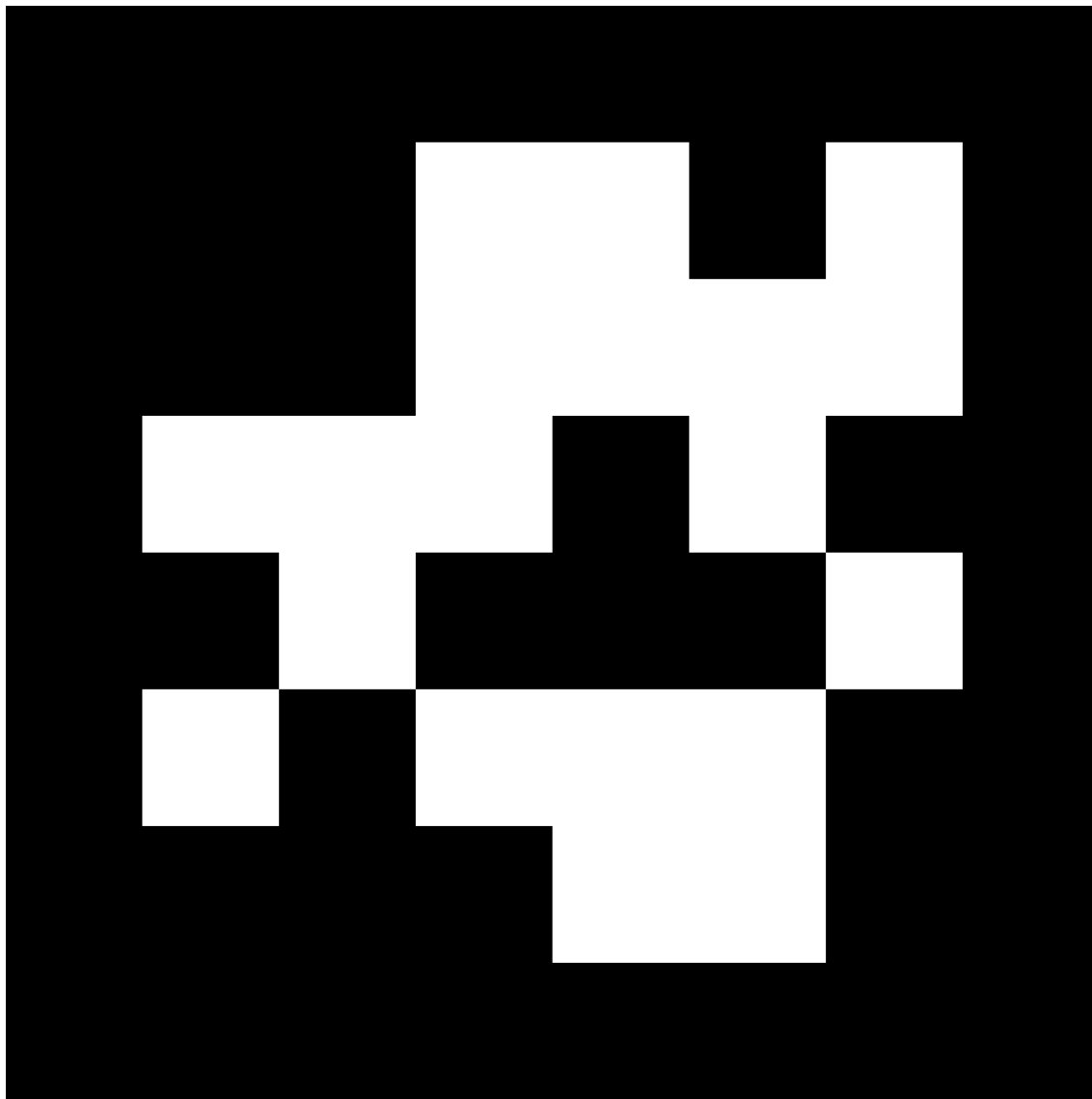
ID 8

This bar and the black square should both measure **150 mm**



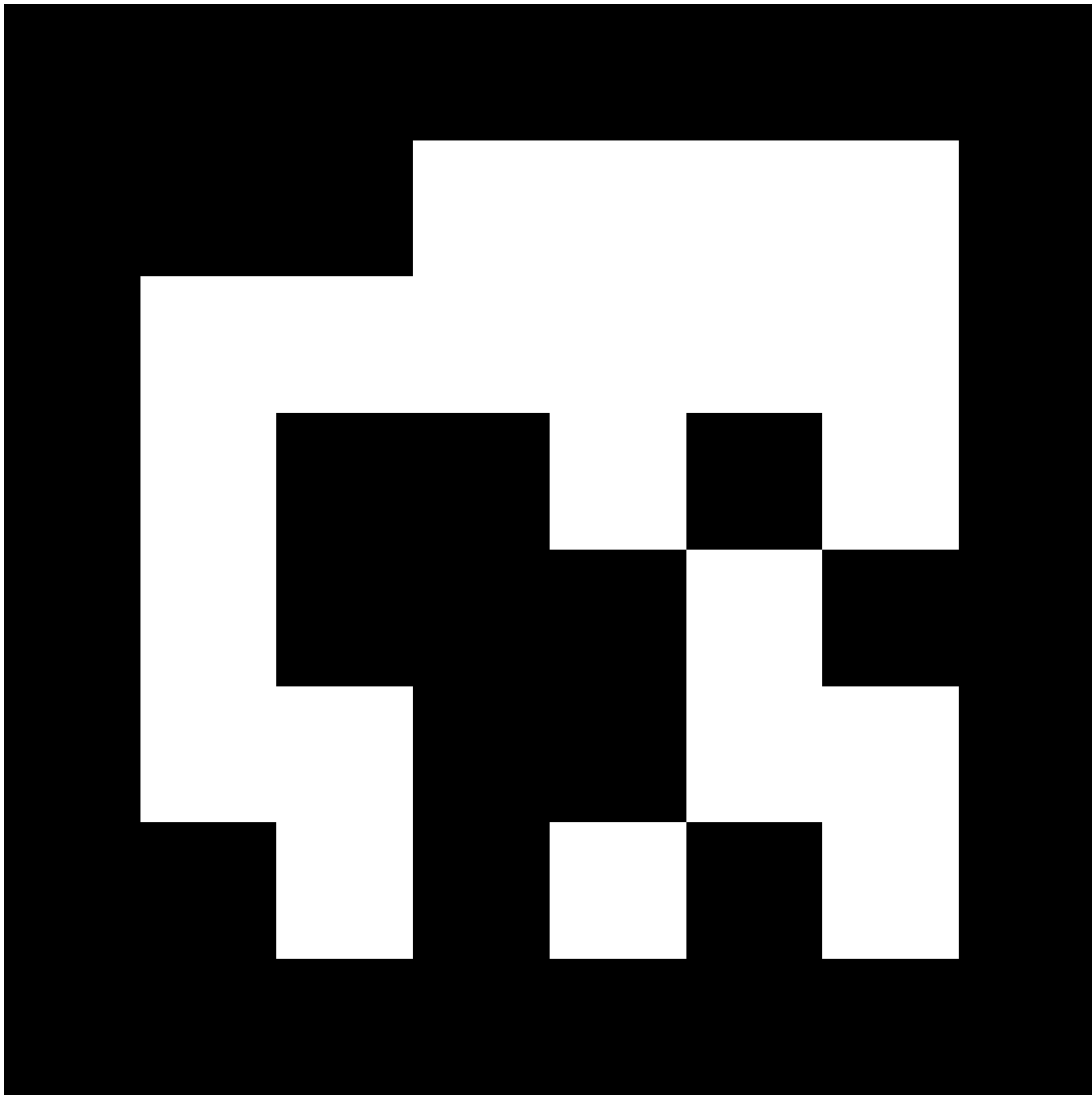
ID 9

This bar and the black square should both measure **150 mm**



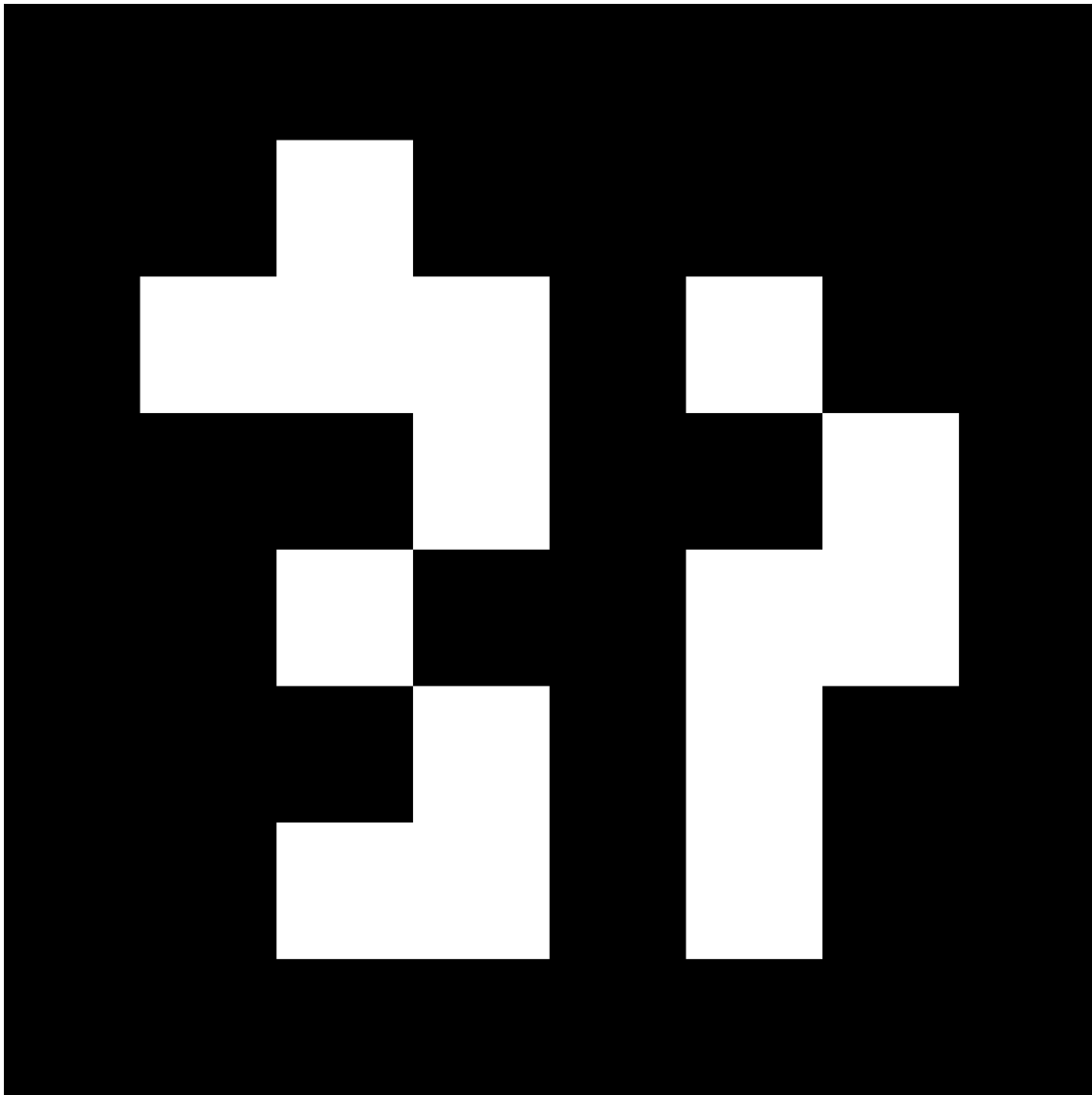
ID 10

This bar and the black square should both measure **150 mm**



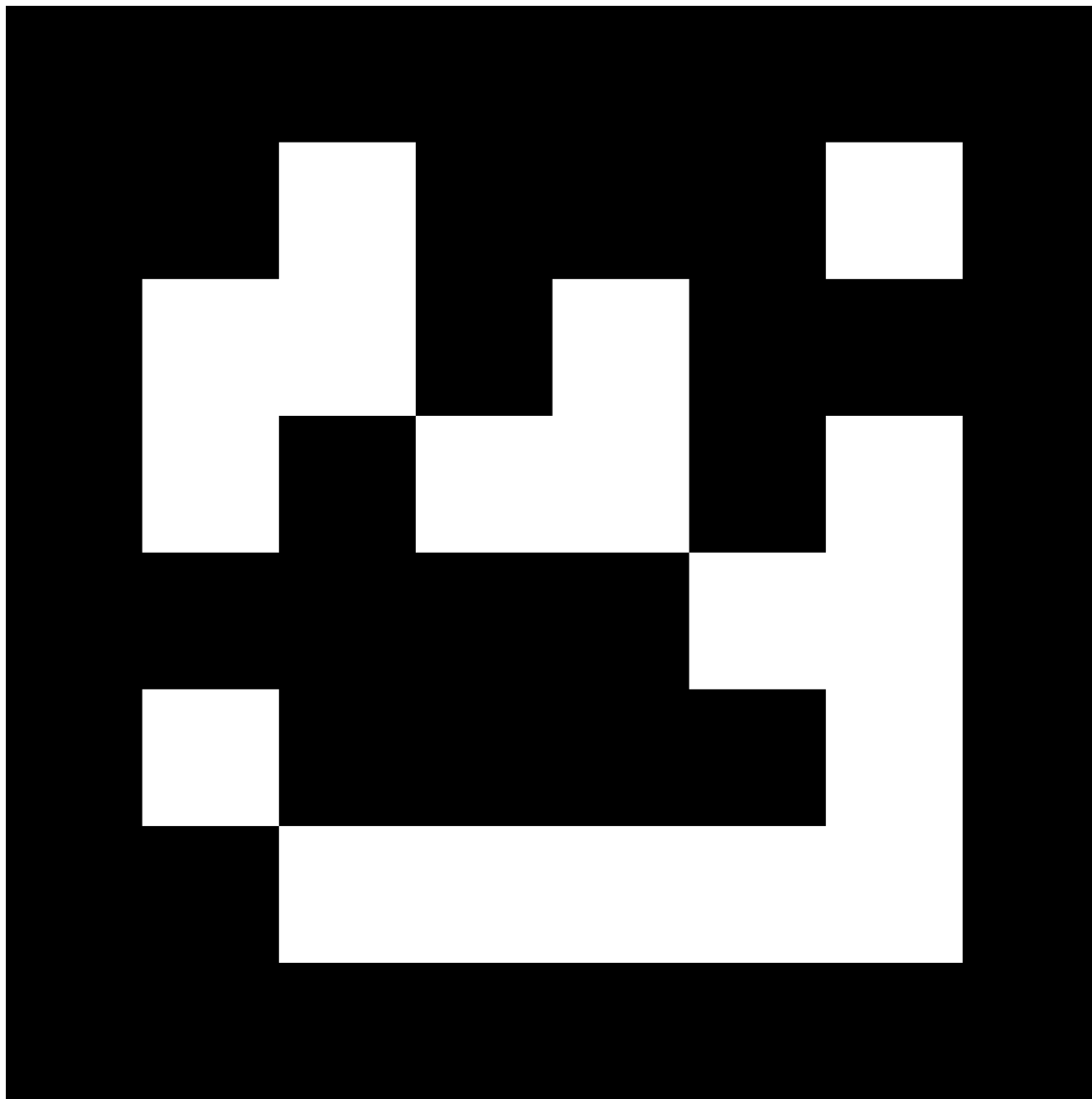
ID 11

This bar and the black square should both measure **150 mm**



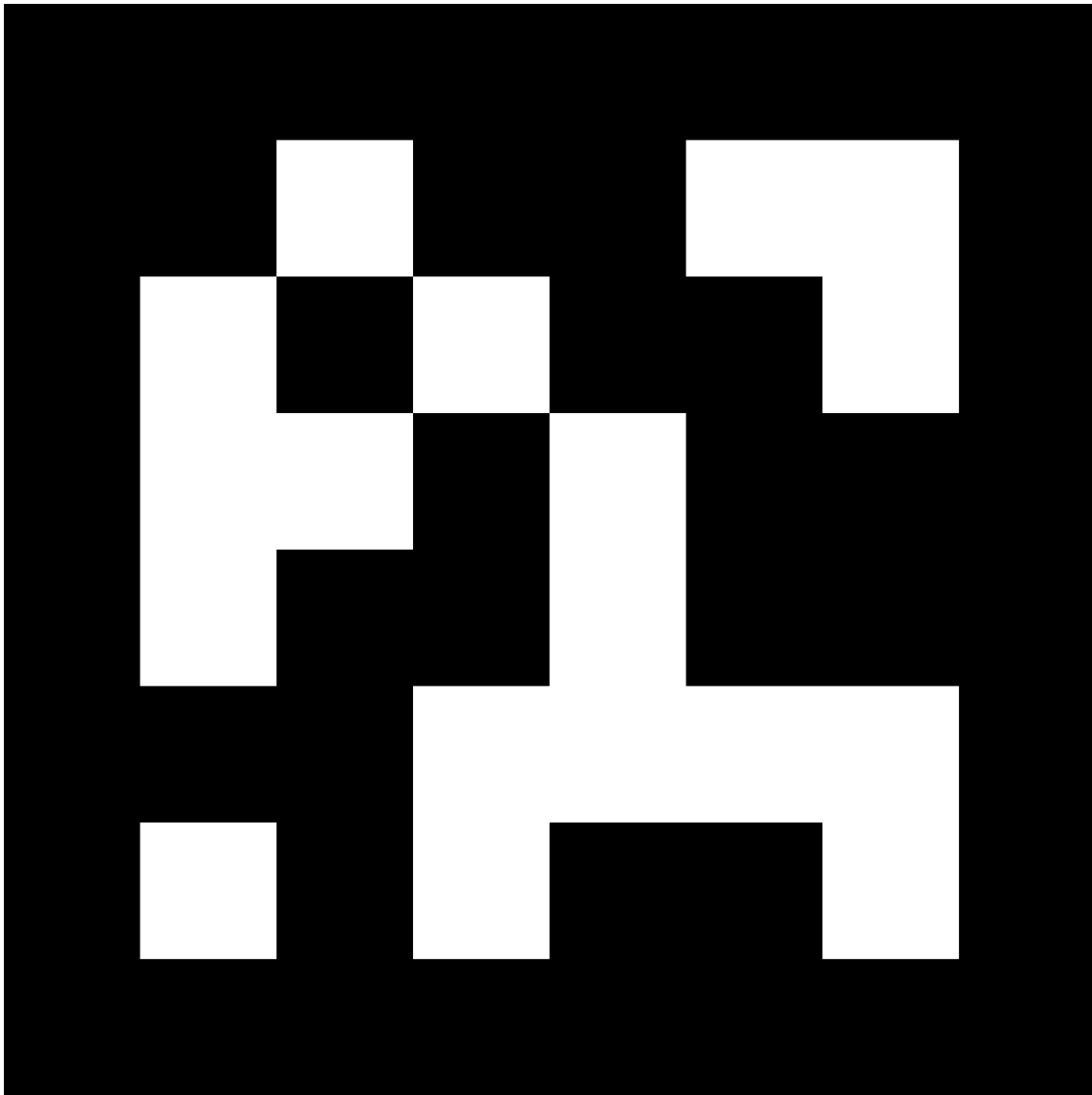
ID 12

This bar and the black square should both measure **150 mm**



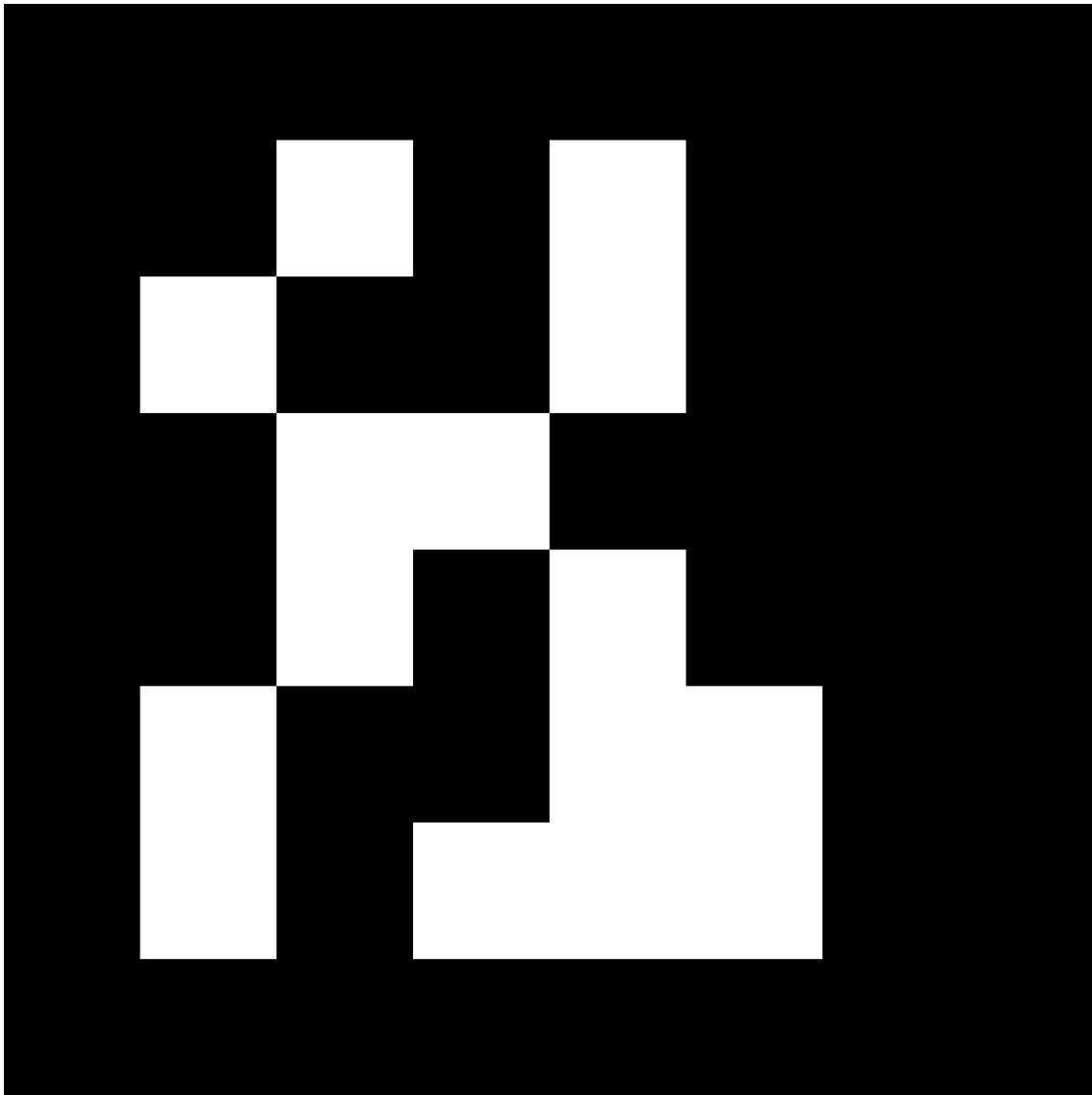
ID 13

This bar and the black square should both measure **150 mm**



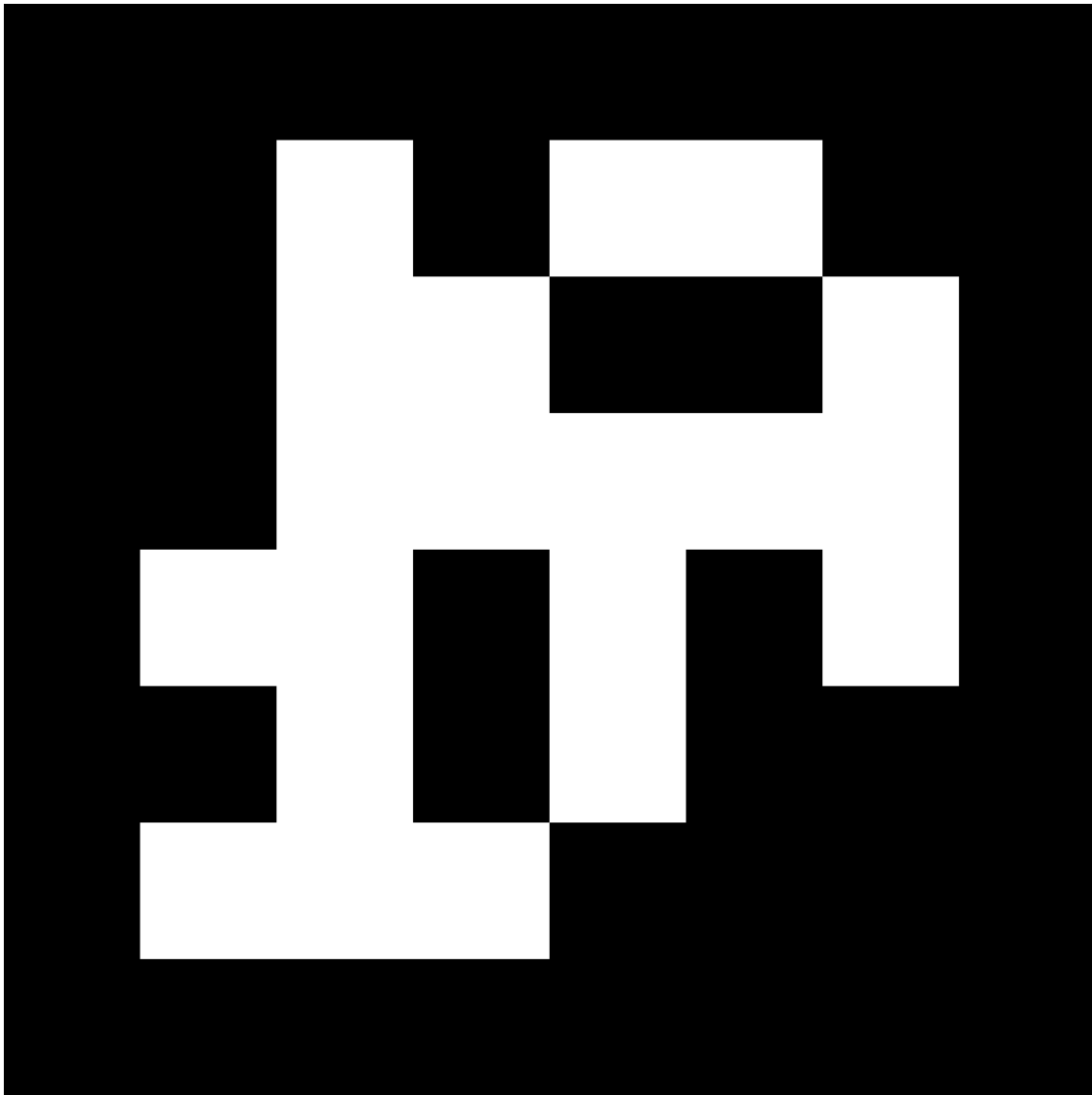
ID 14

This bar and the black square should both measure **150 mm**



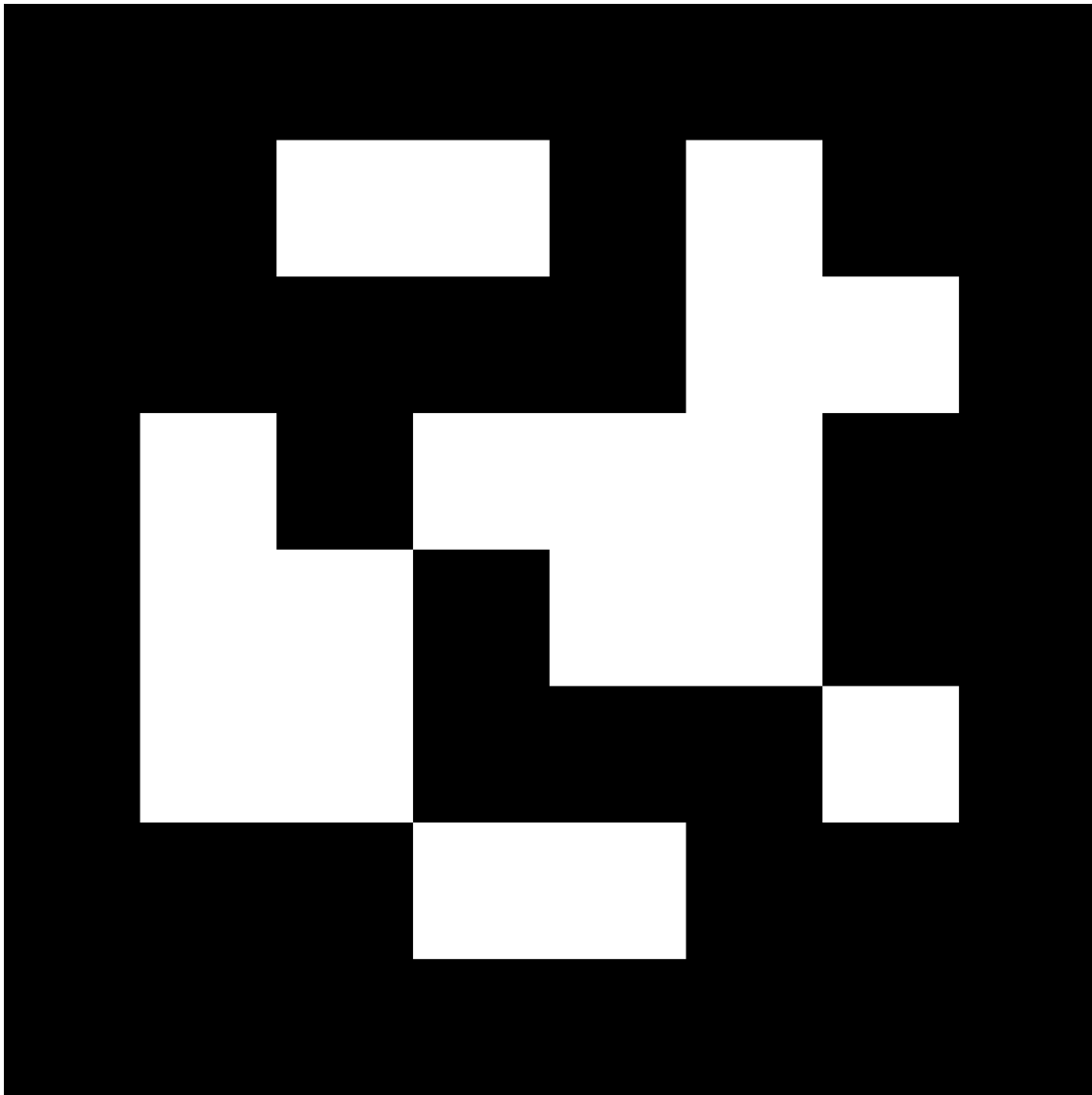
ID 15

This bar and the black square should both measure **150 mm**



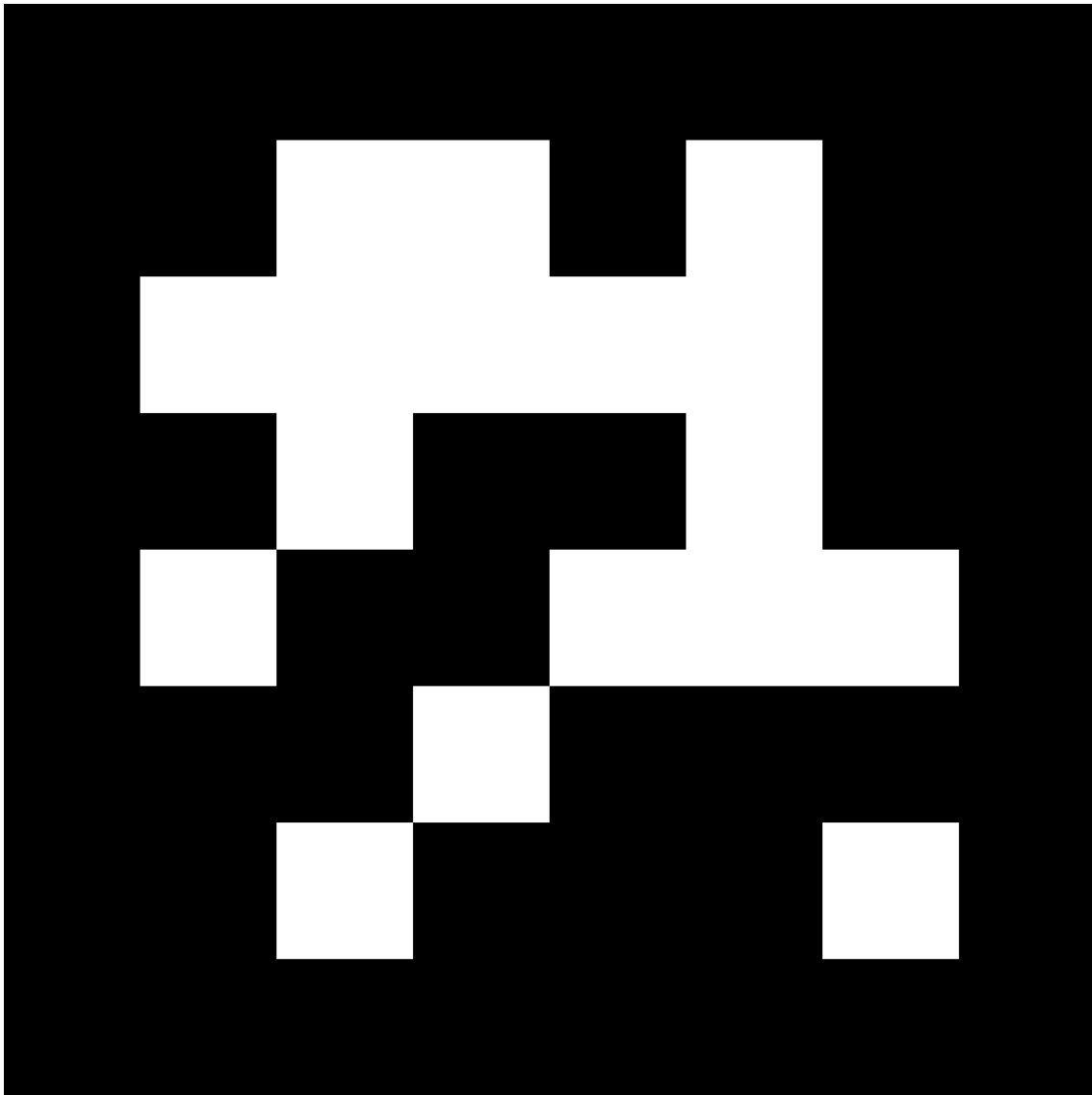
ID 16

This bar and the black square should both measure **150 mm**



ID 17

This bar and the black square should both measure **150 mm**



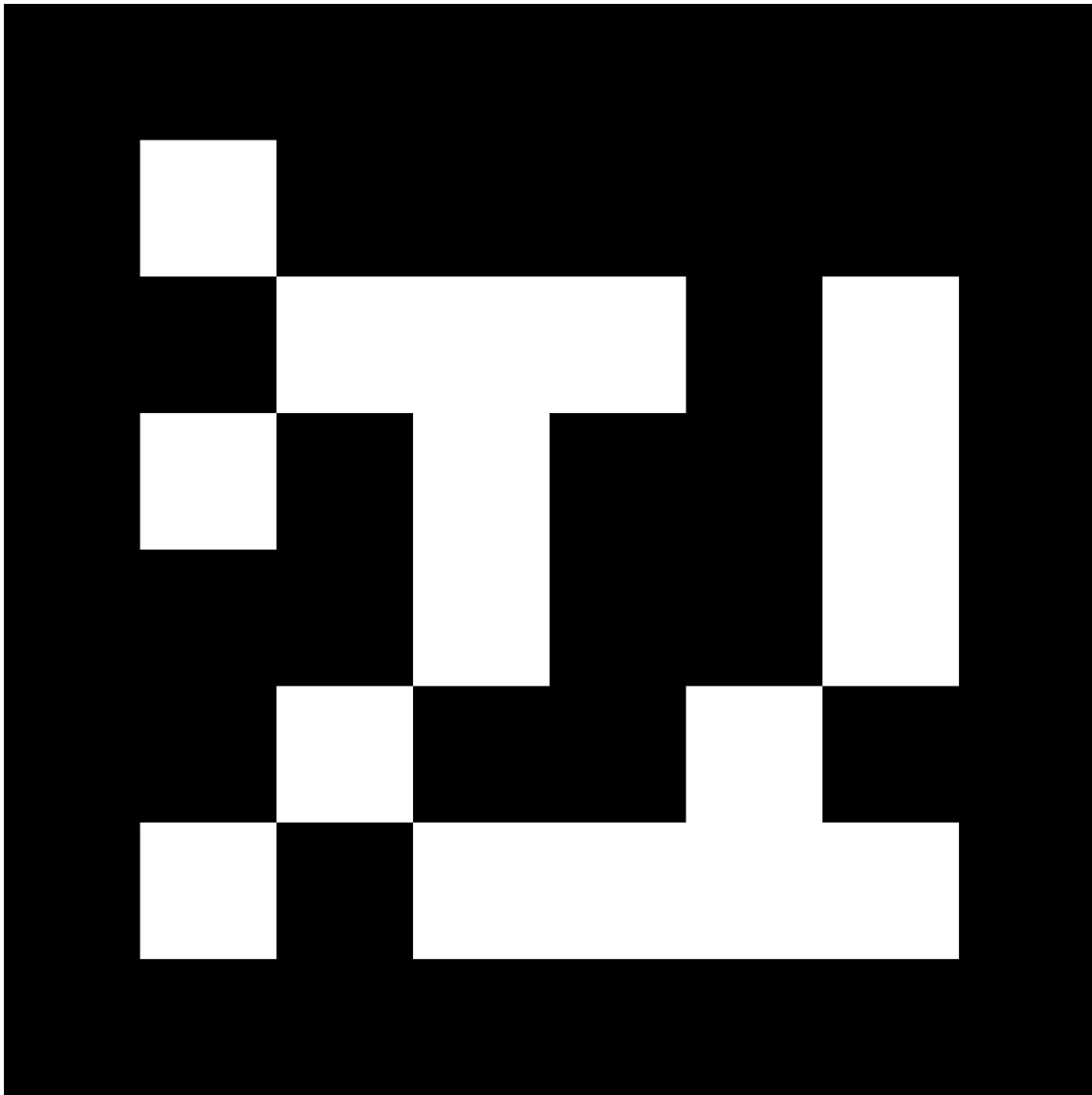
ID 18

This bar and the black square should both measure **150 mm**



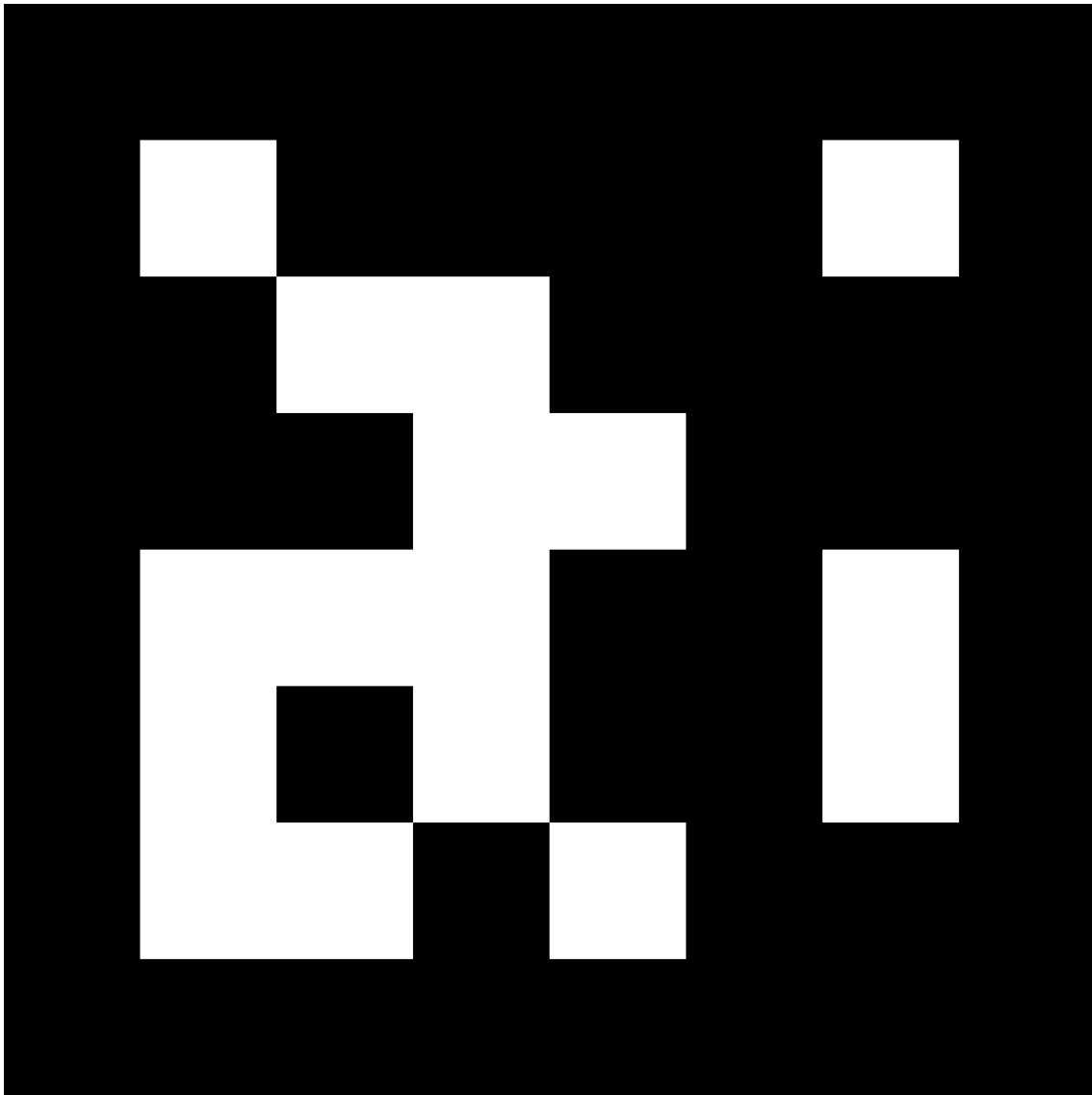
ID 19

This bar and the black square should both measure **150 mm**



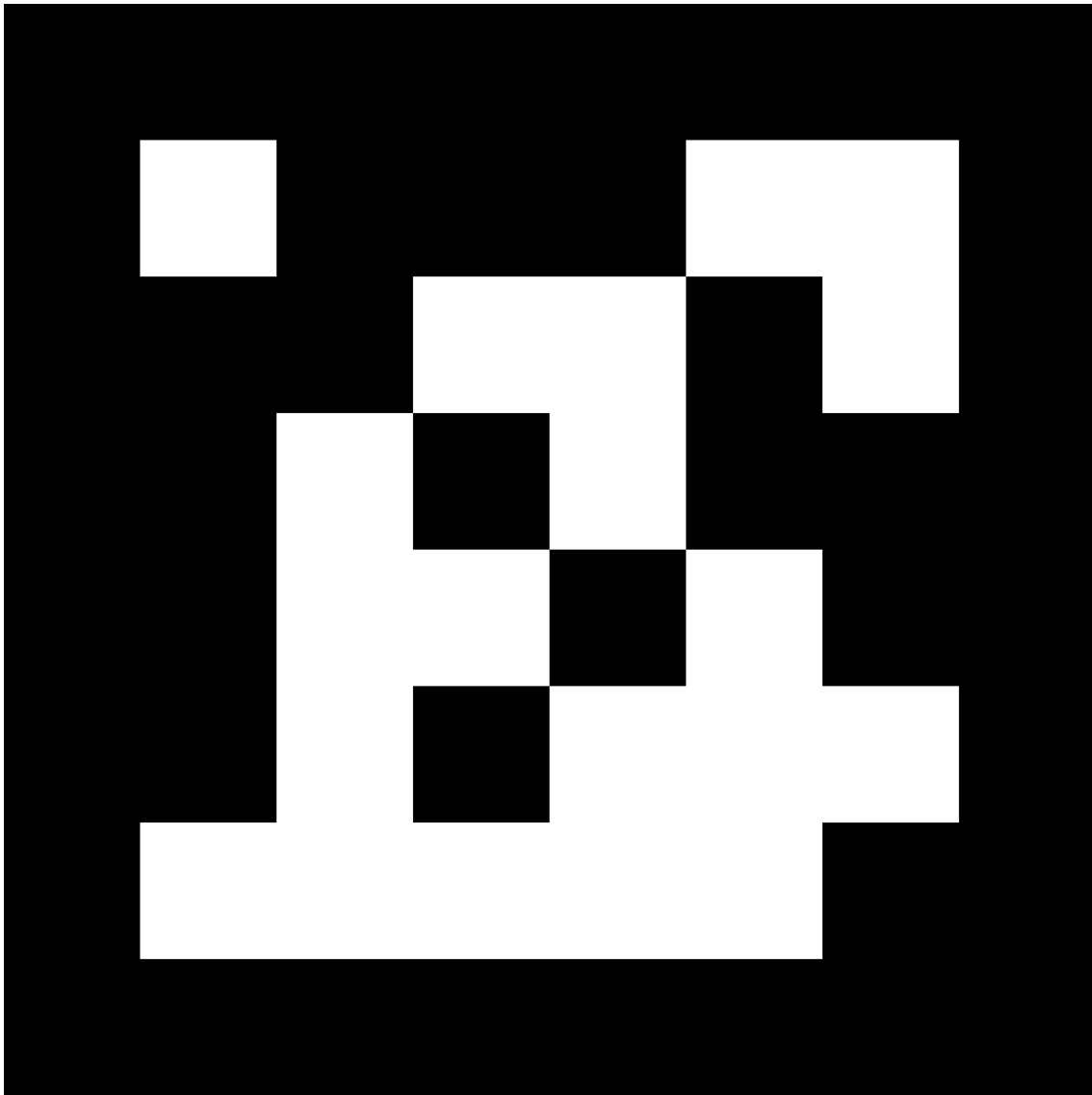
ID 20

This bar and the black square should both measure **150 mm**



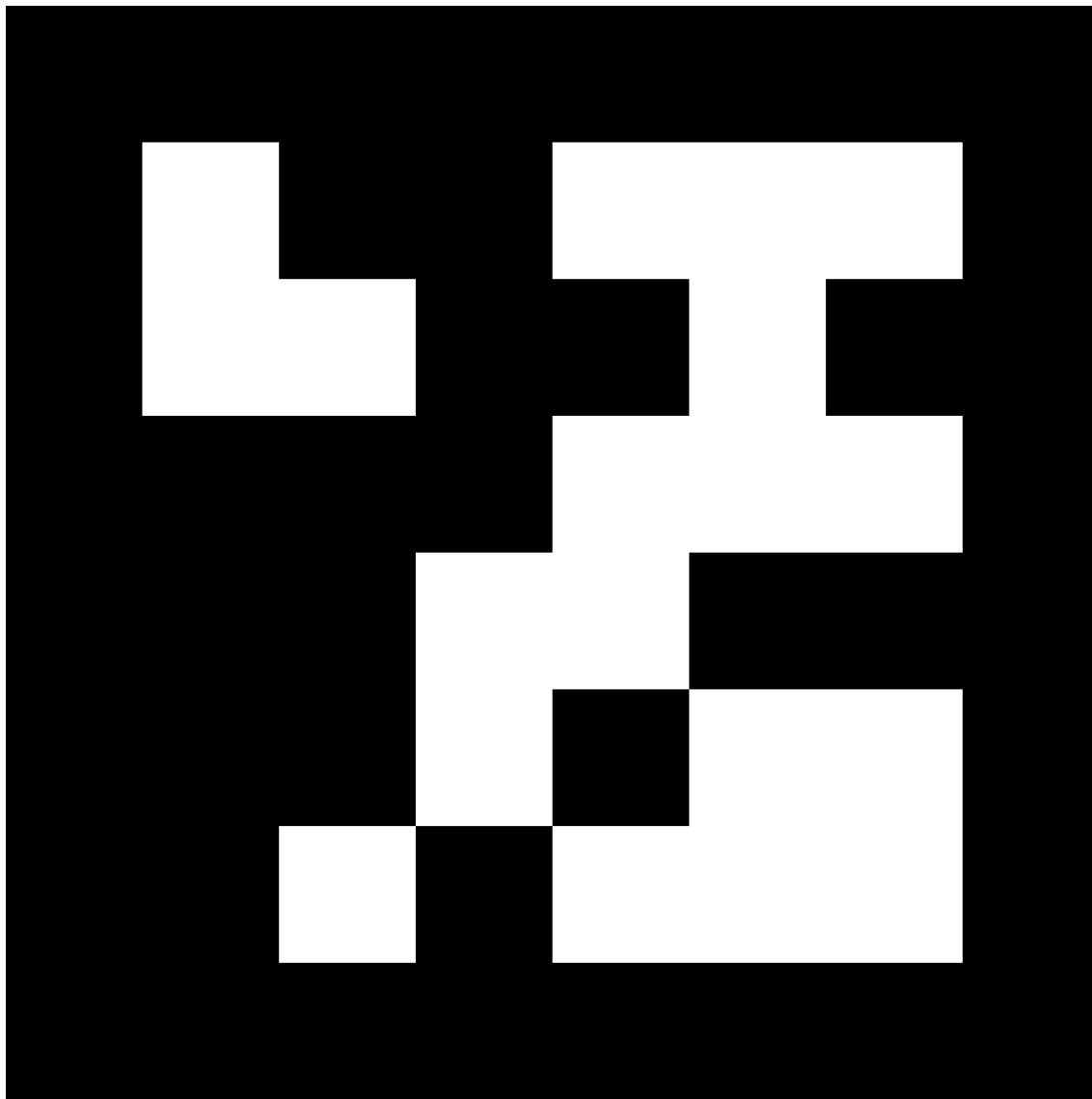
ID 21

This bar and the black square should both measure **150 mm**



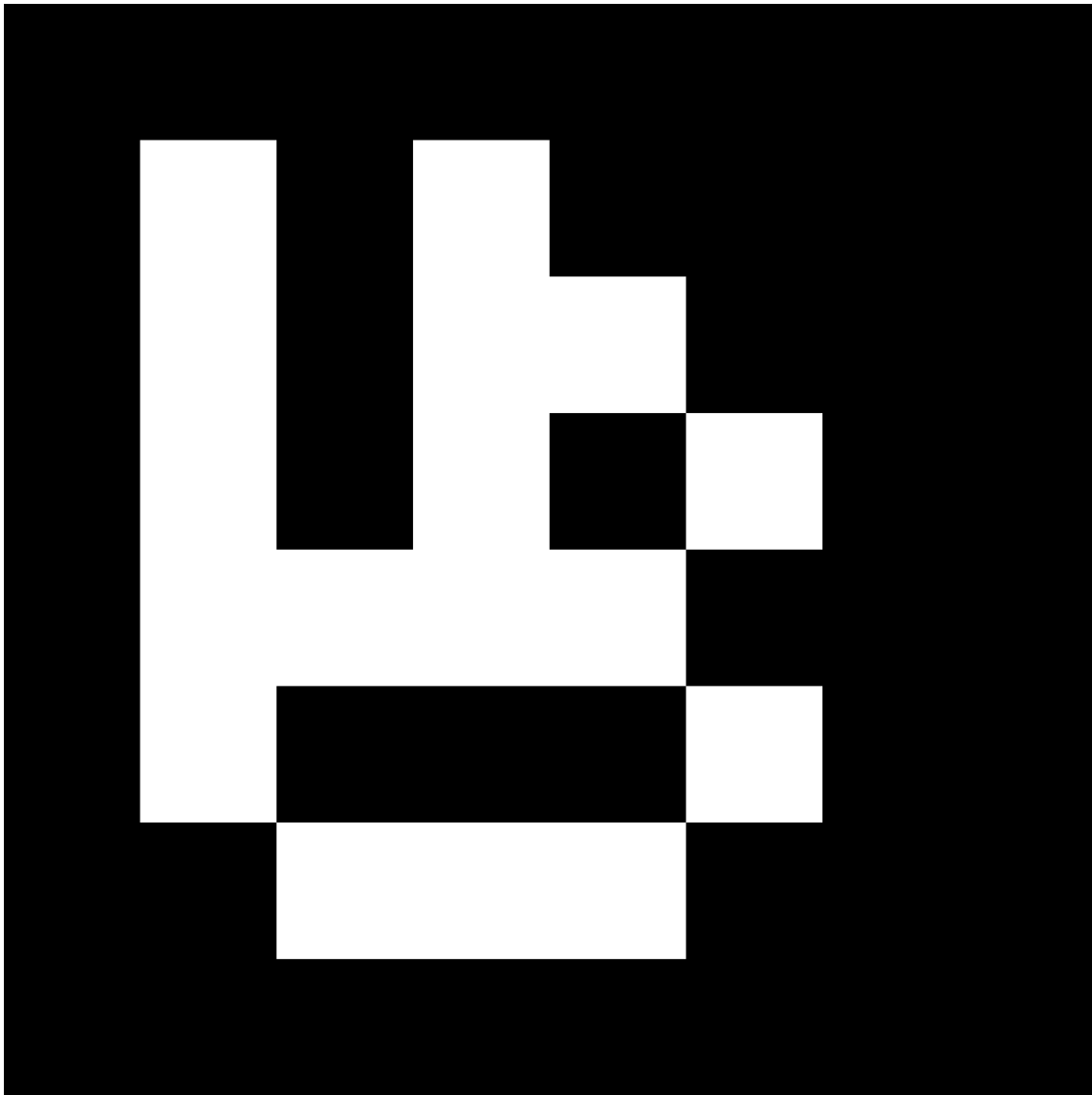
ID 22

This bar and the black square should both measure **150 mm**



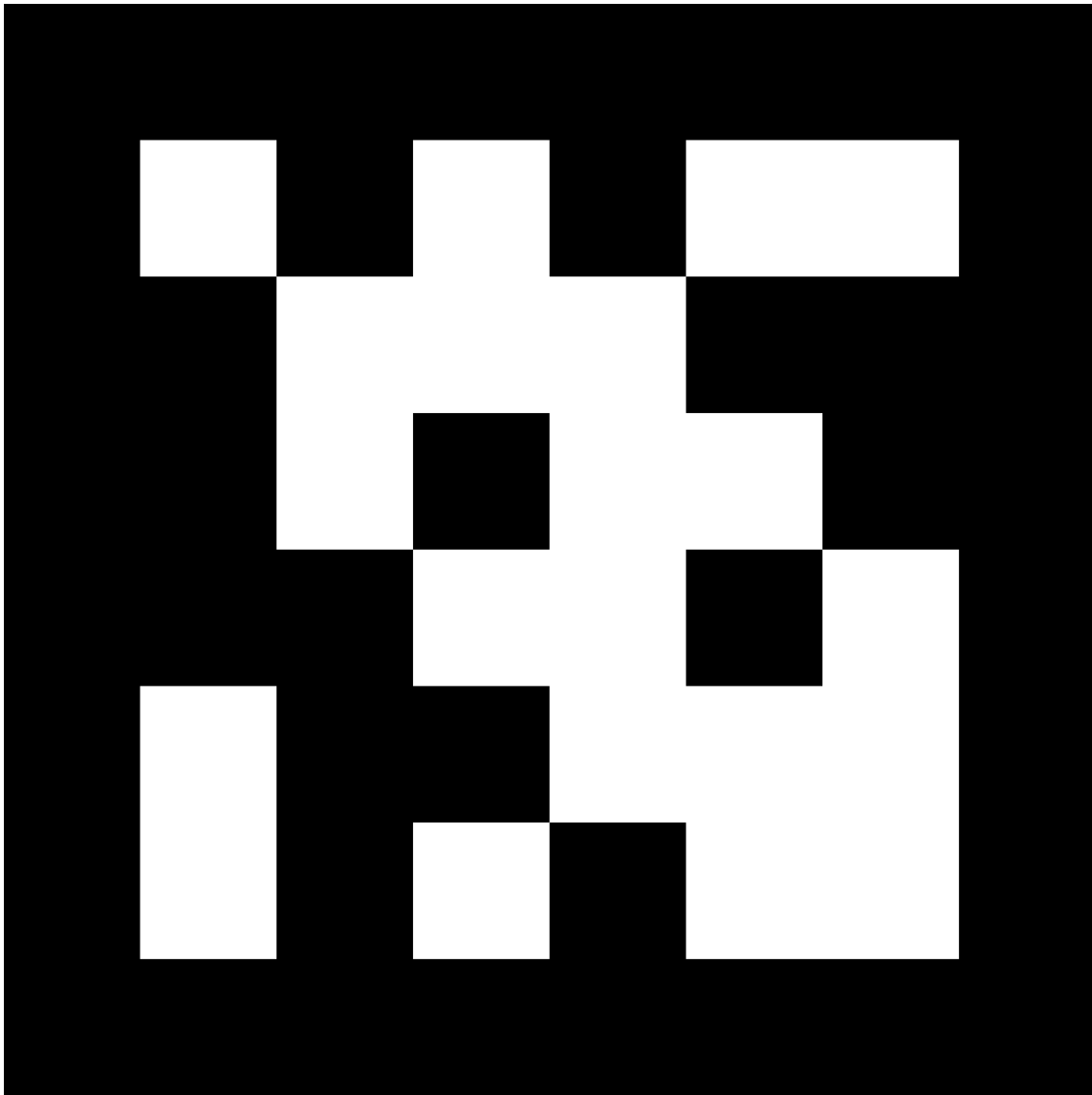
ID 23

This bar and the black square should both measure **150 mm**



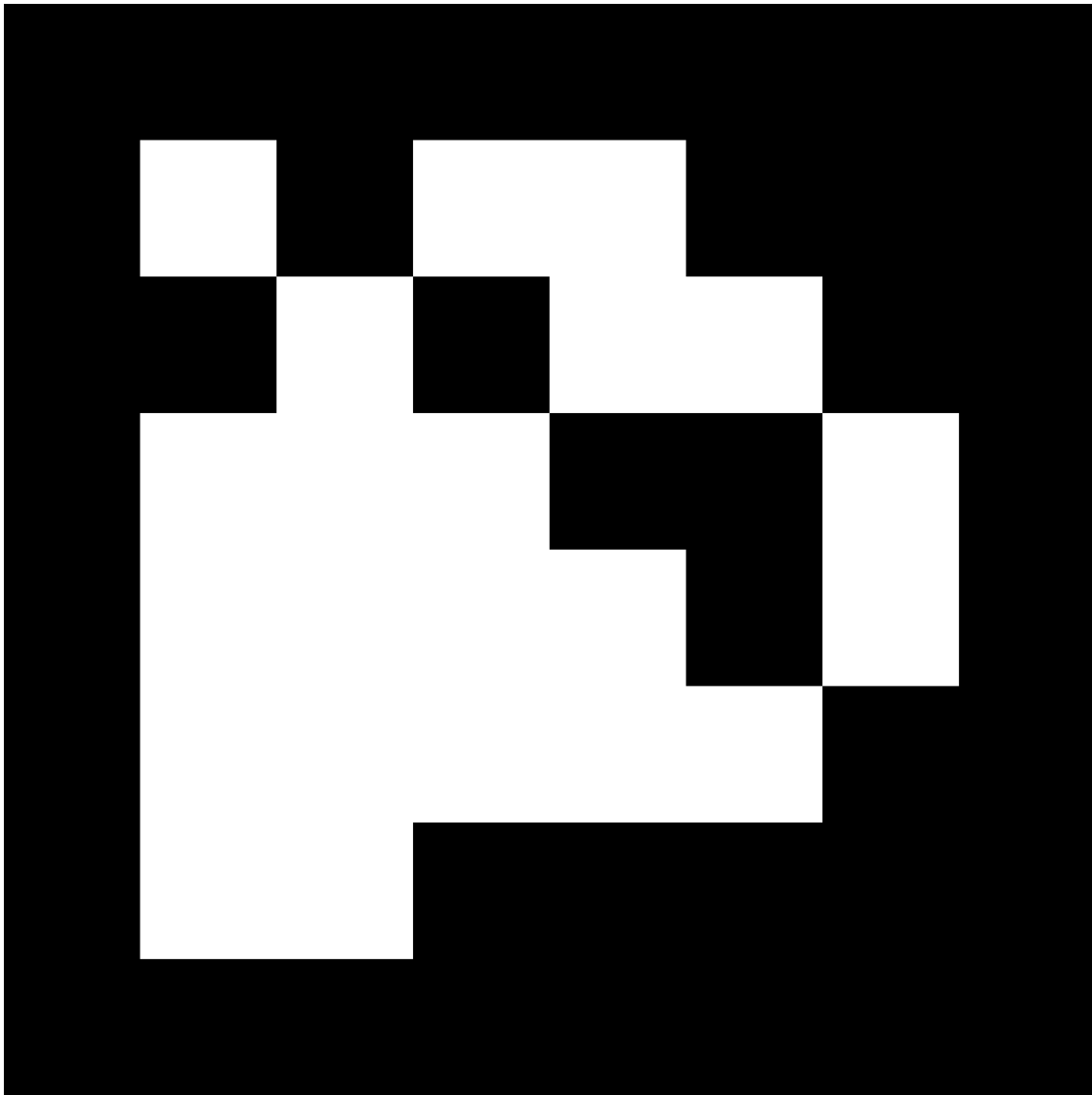
ID 24

This bar and the black square should both measure **150 mm**



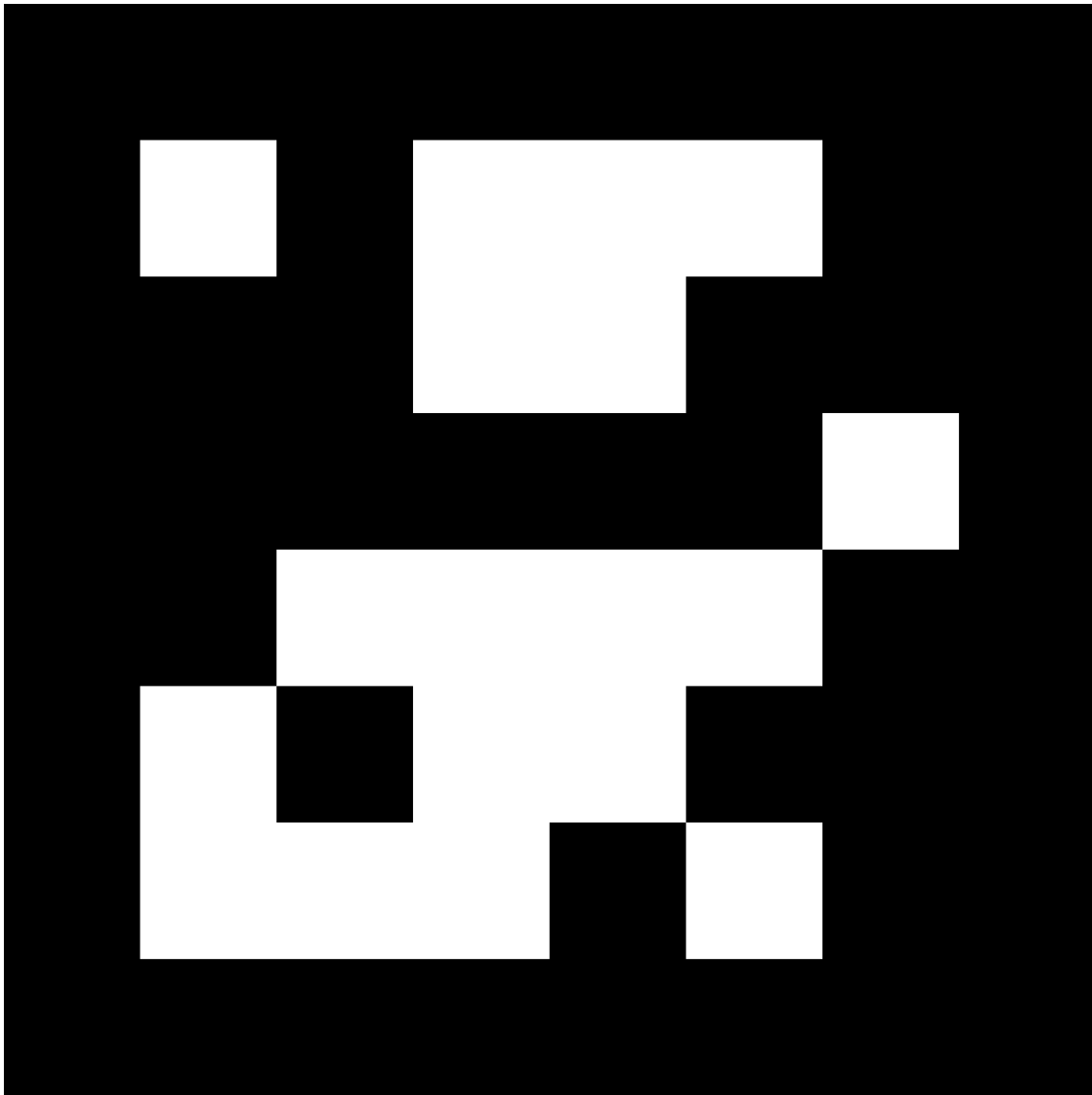
ID 25

This bar and the black square should both measure **150 mm**



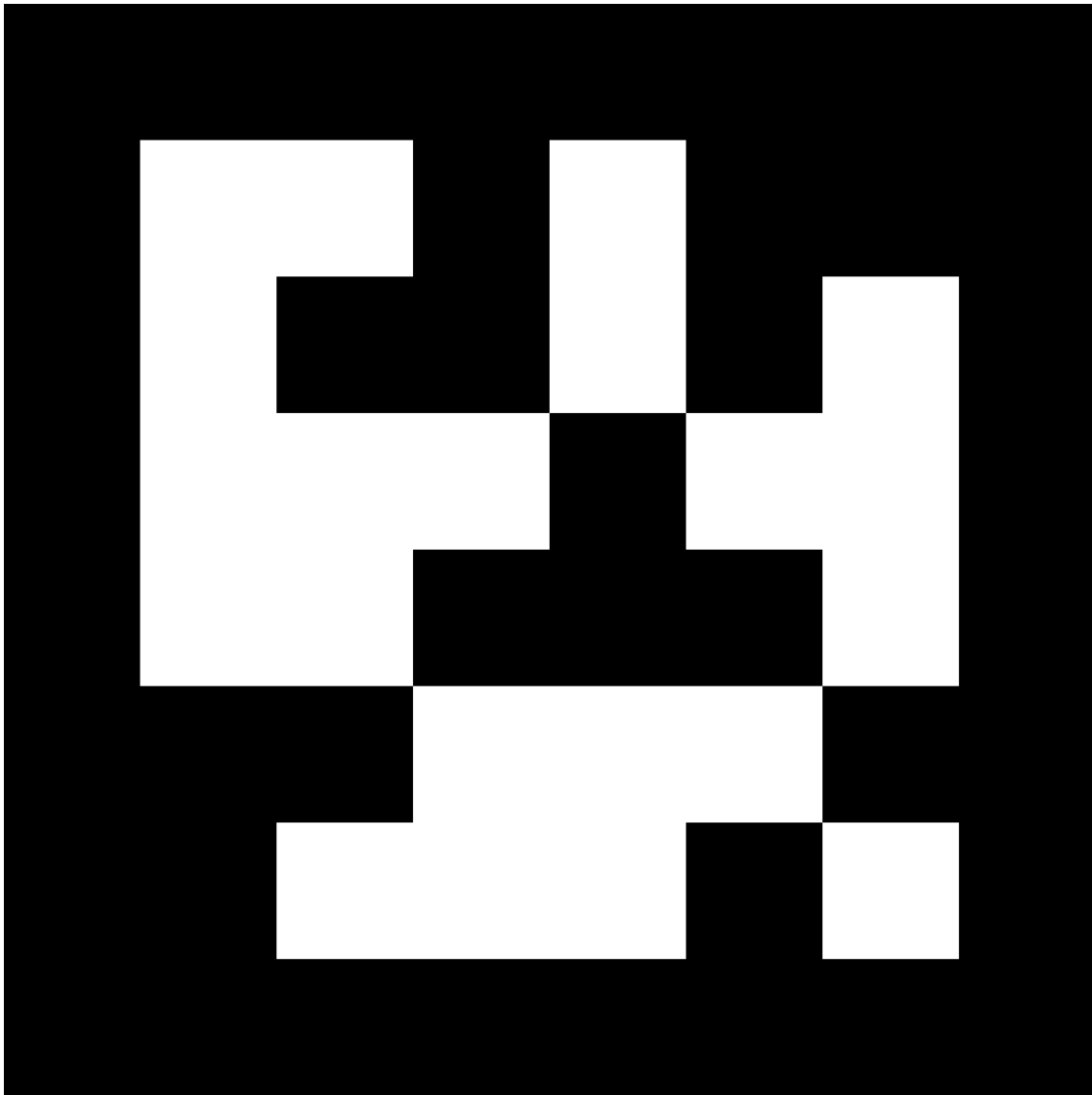
ID 26

This bar and the black square should both measure **150 mm**



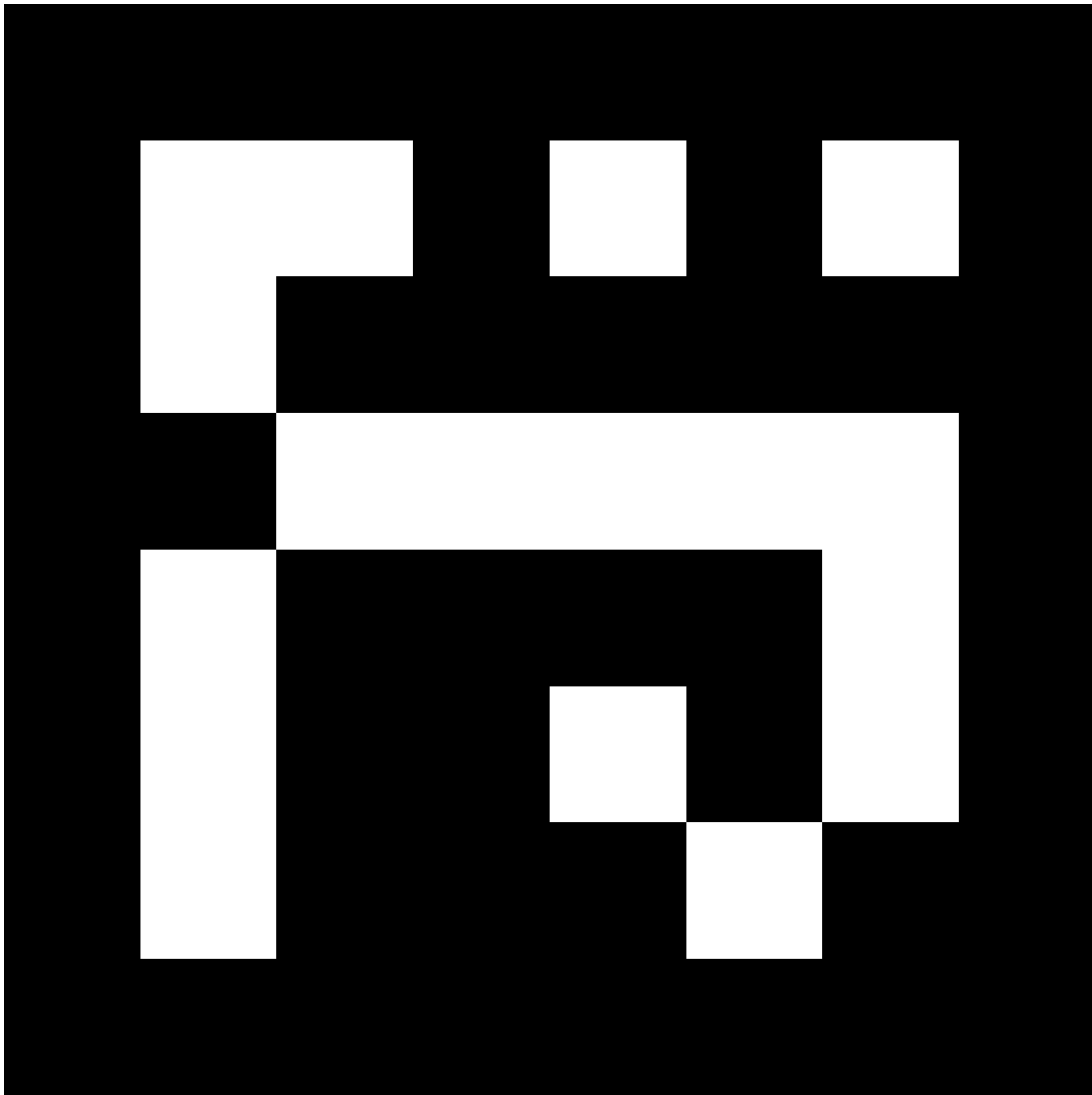
ID 27

This bar and the black square should both measure **150 mm**



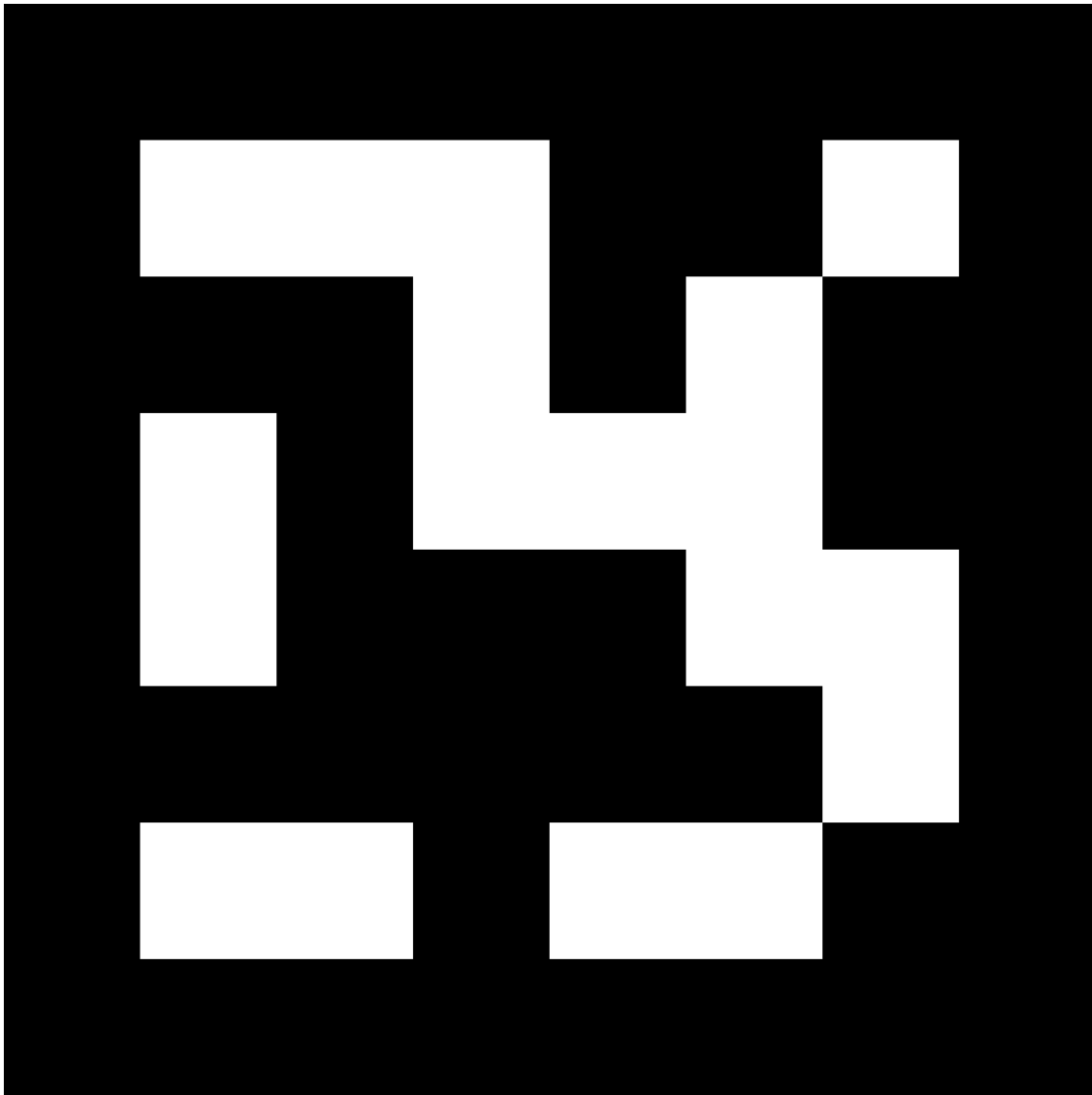
ID 28

This bar and the black square should both measure **150 mm**



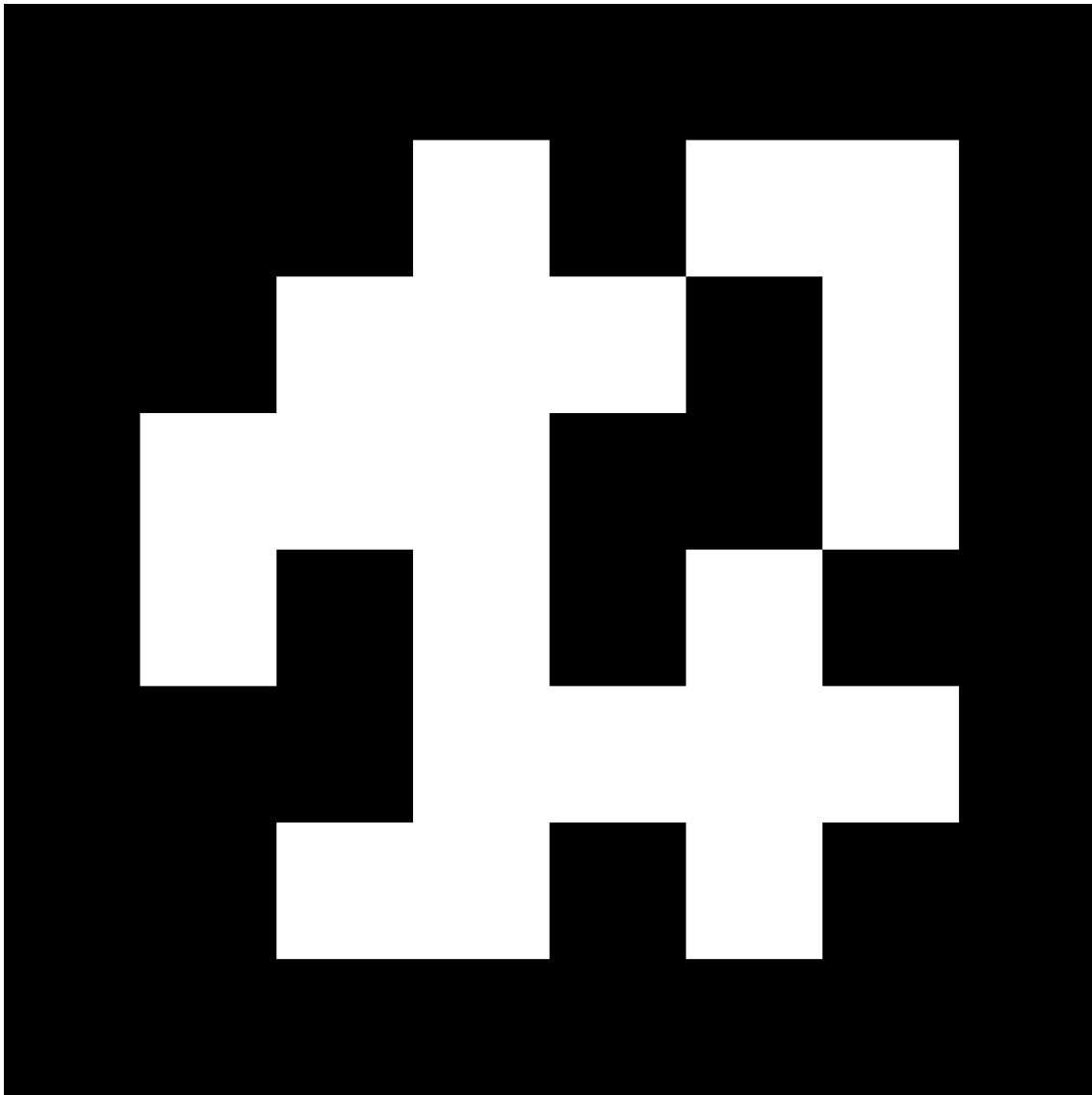
ID 29

This bar and the black square should both measure **150 mm**



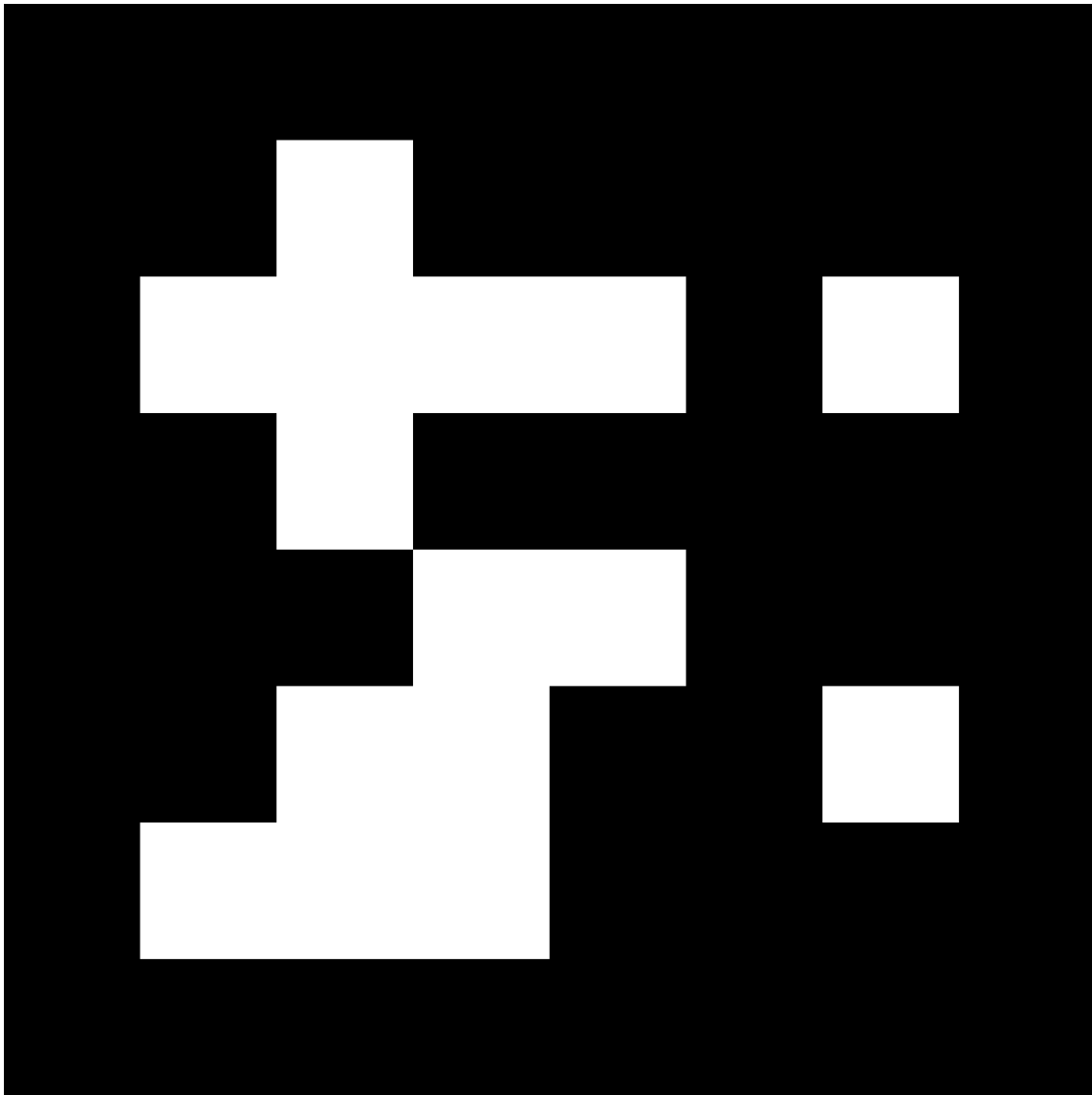
ID 30

This bar and the black square should both measure **150 mm**



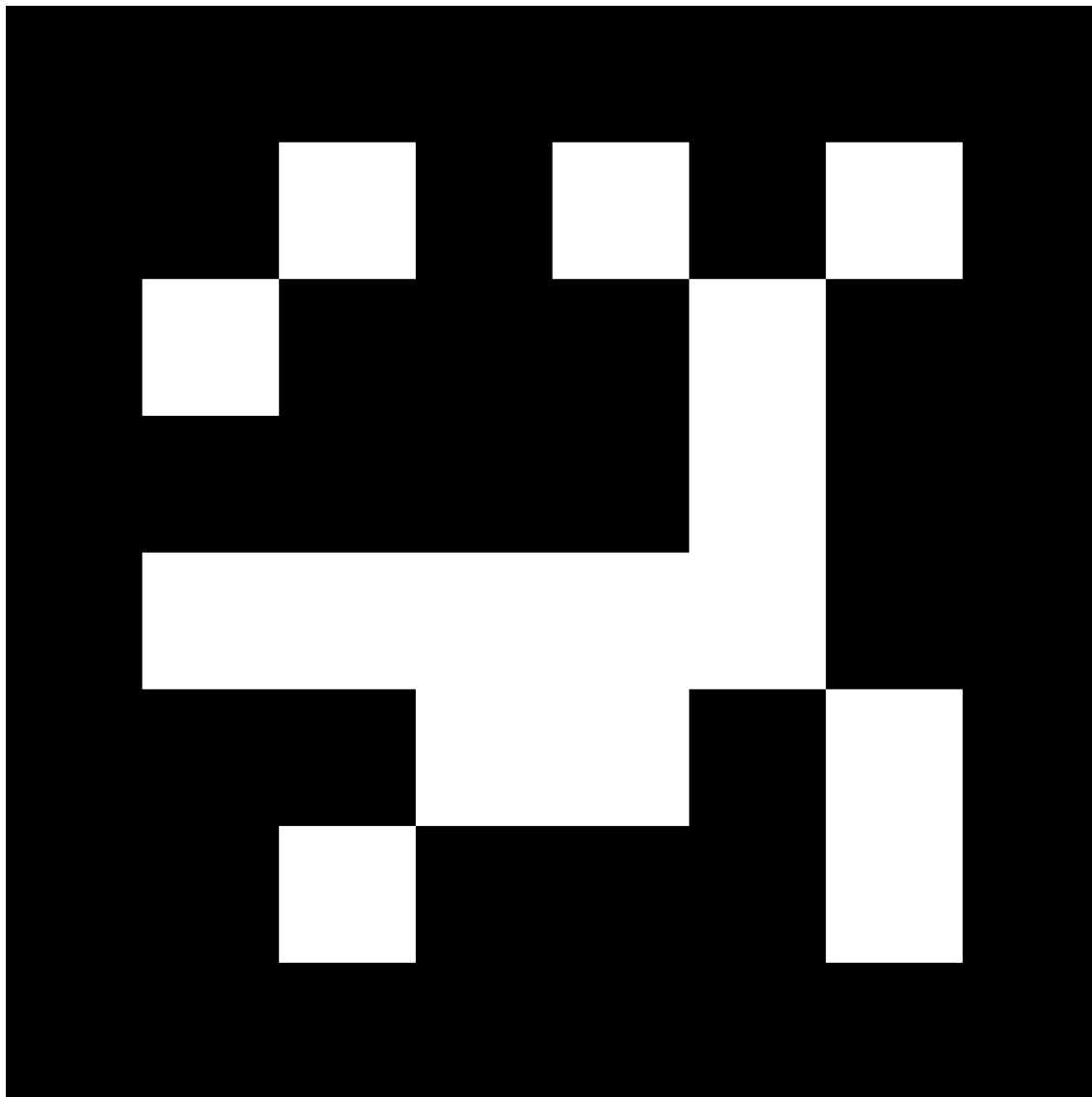
ID 31

This bar and the black square should both measure **150 mm**



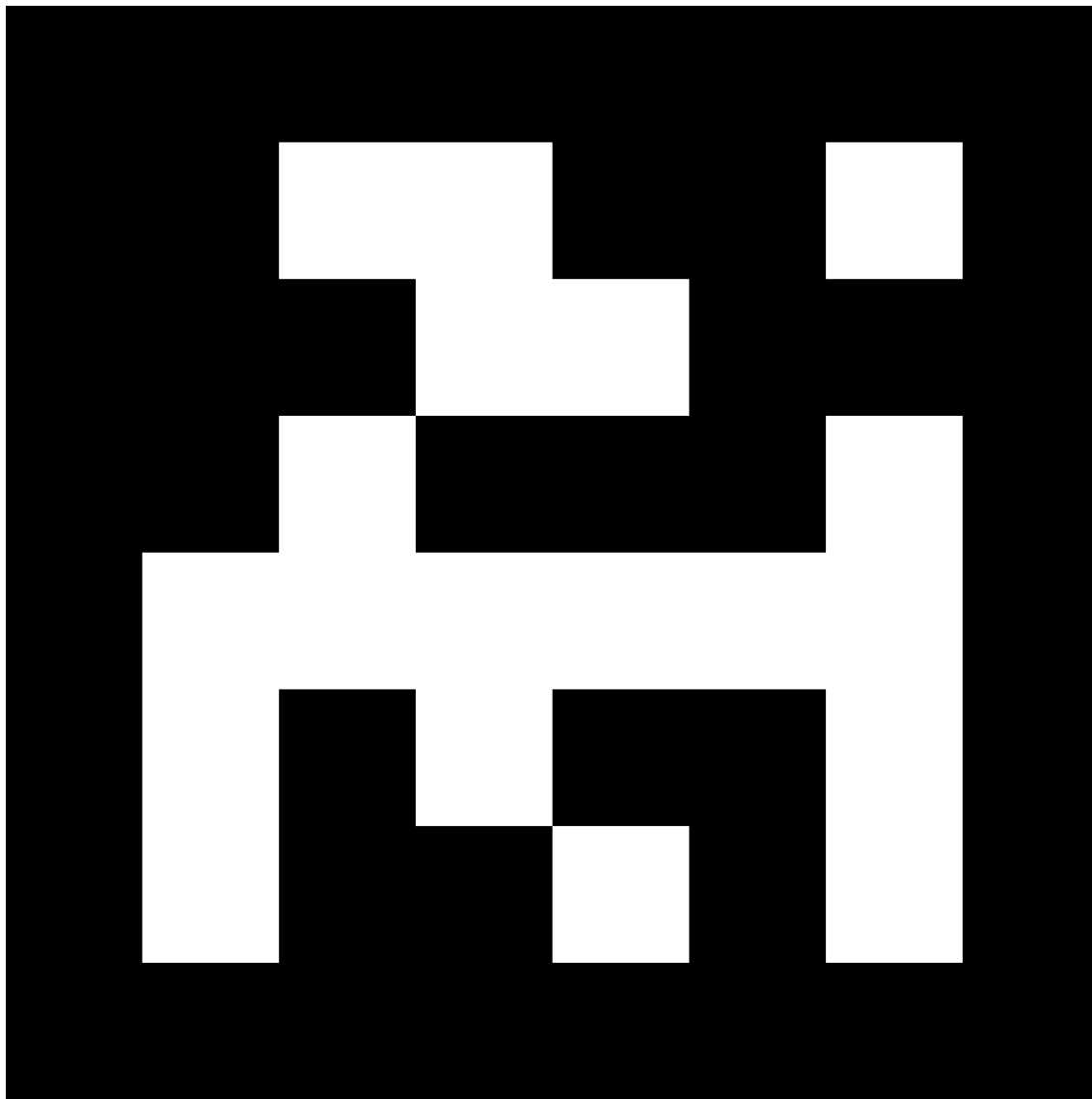
ID 32

This bar and the black square should both measure **150 mm**



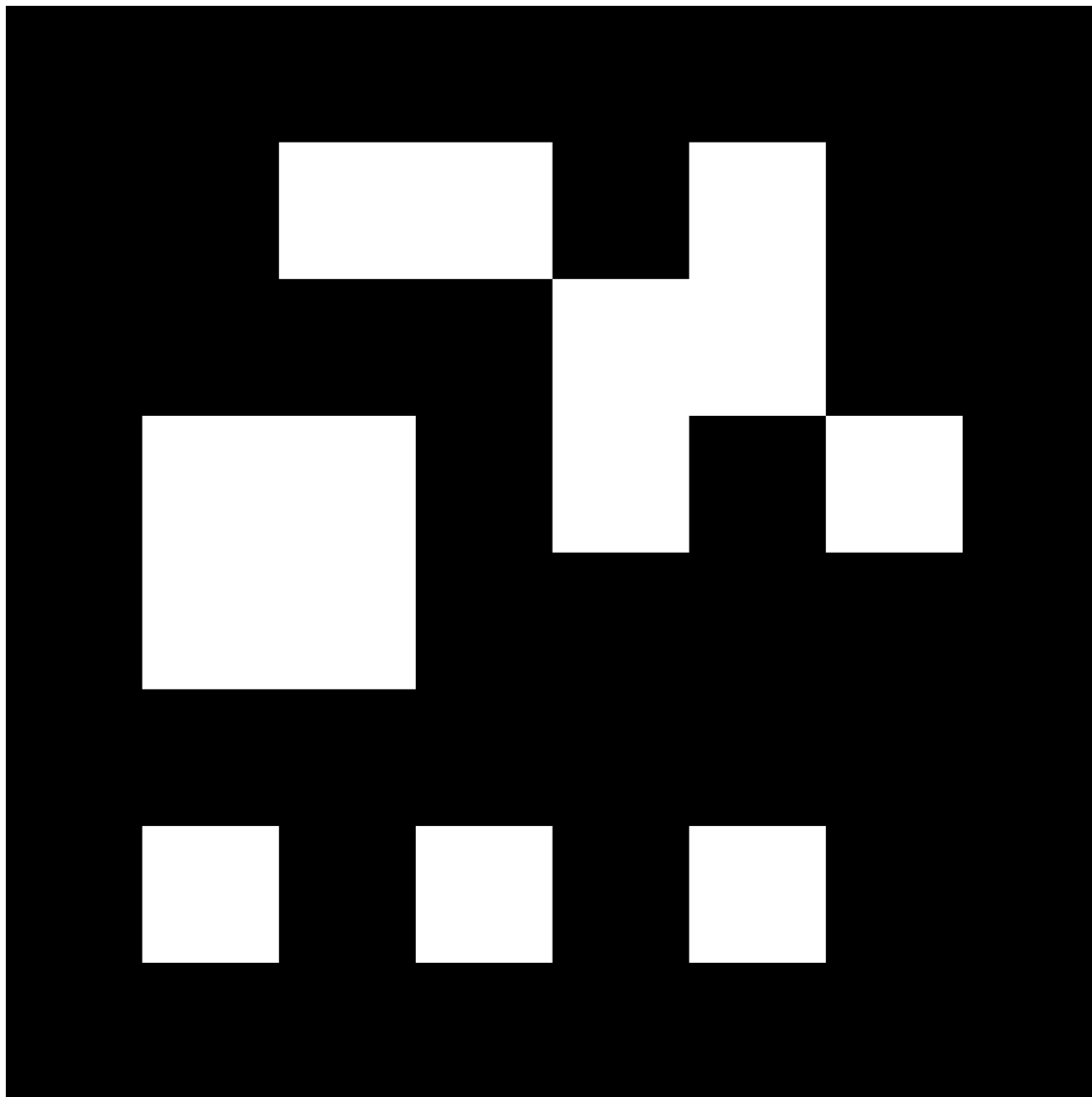
ID 33

This bar and the black square should both measure **150 mm**



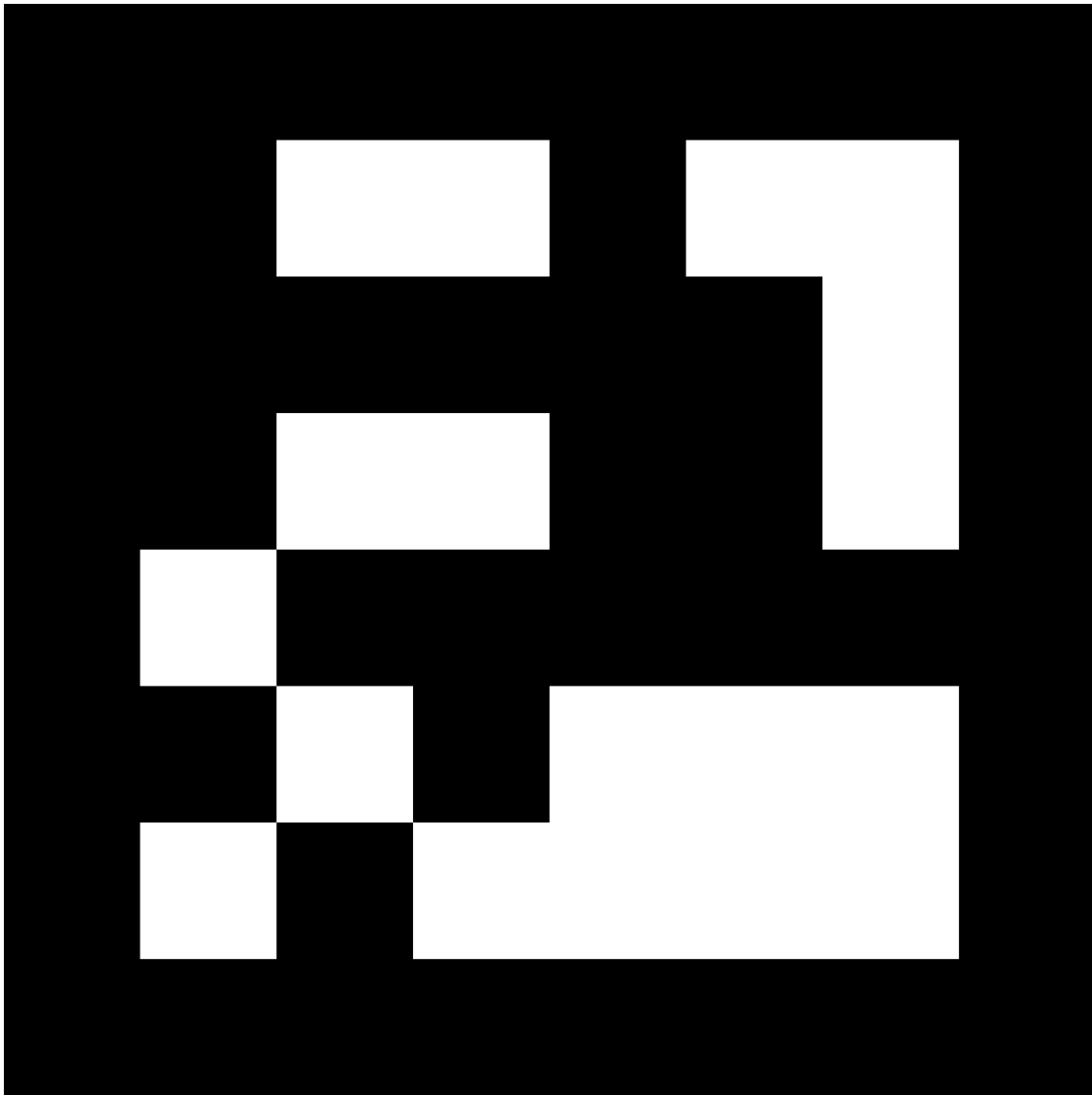
ID 34

This bar and the black square should both measure **150 mm**



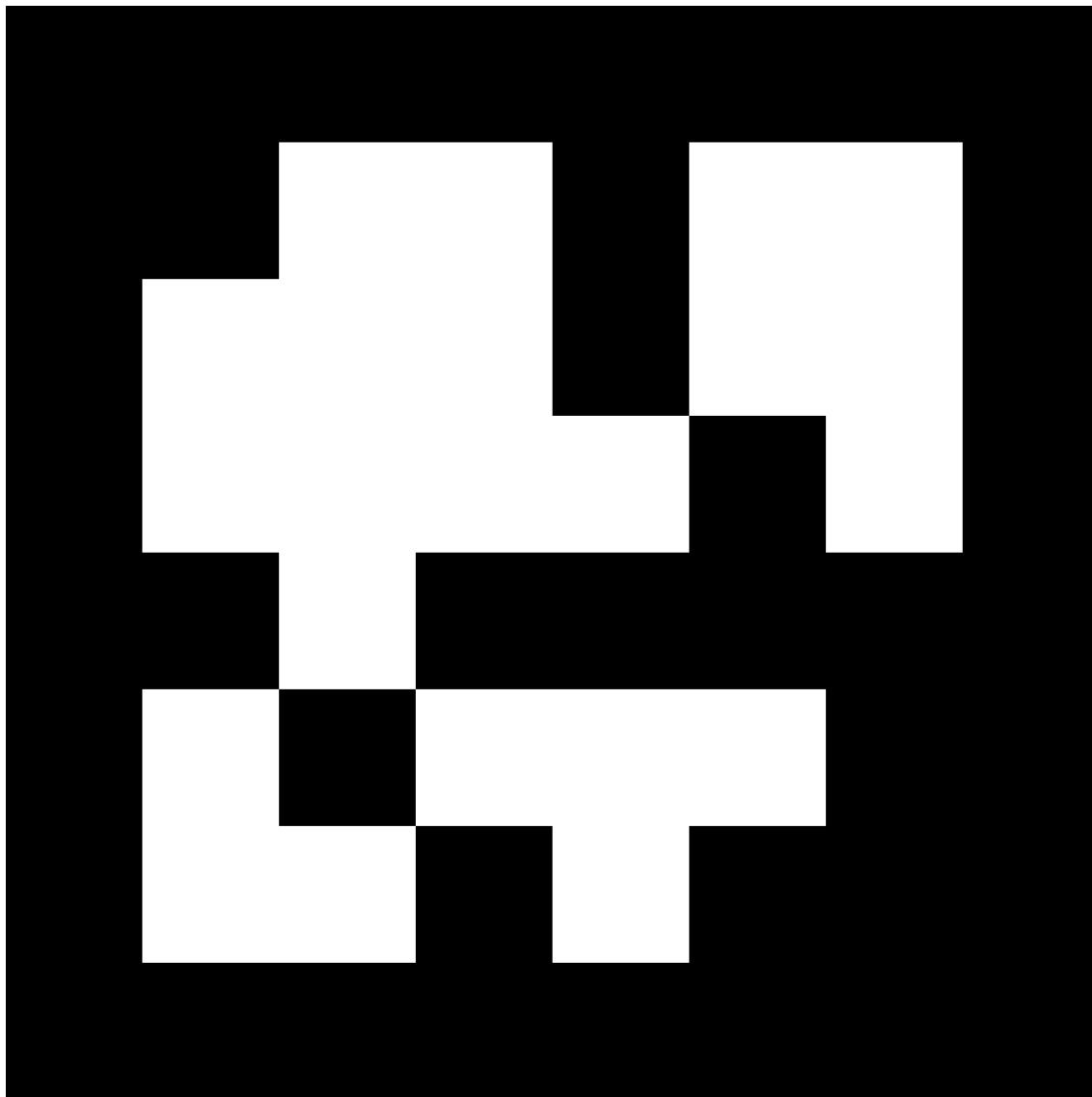
ID 35

This bar and the black square should both measure **150 mm**



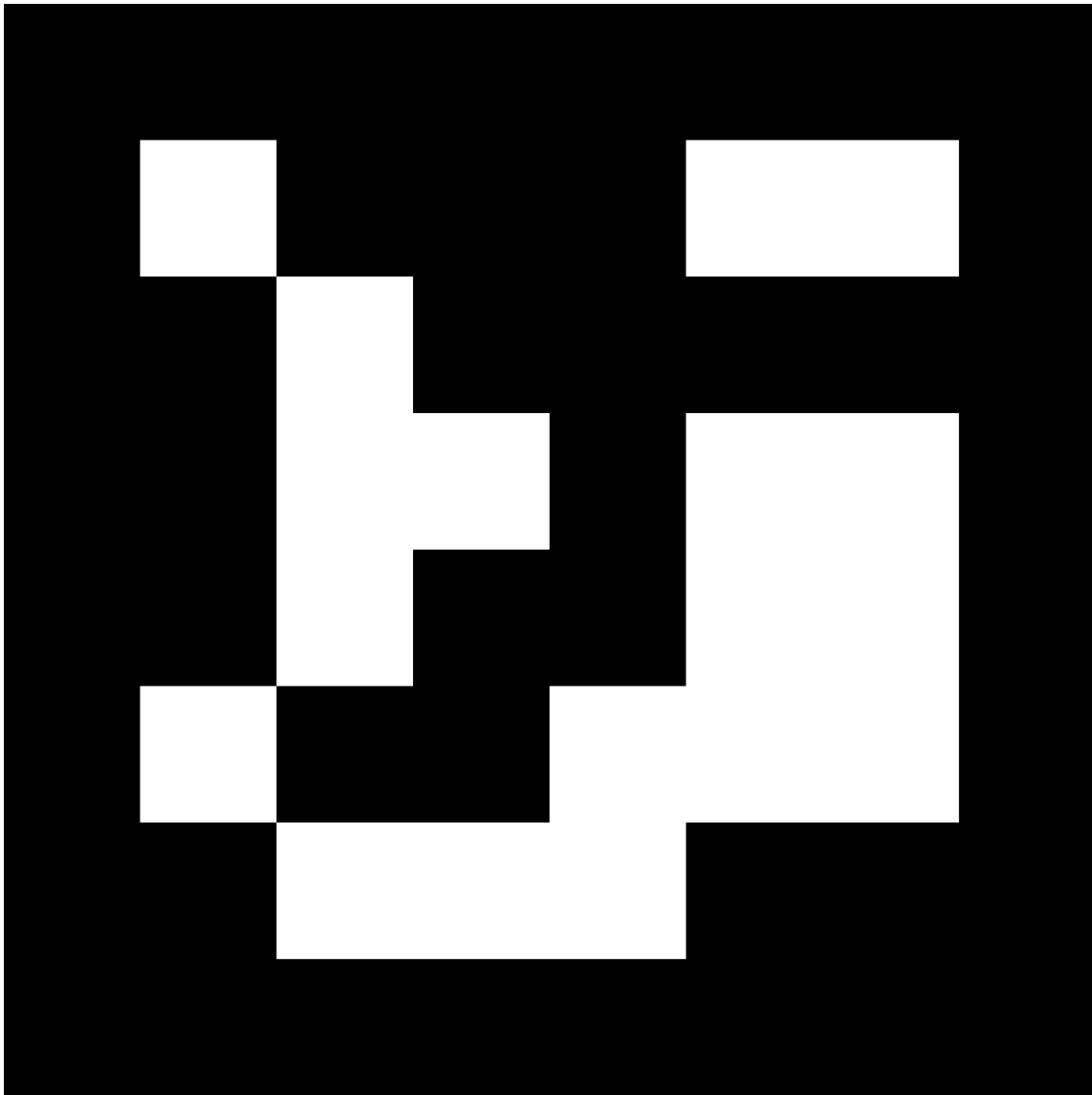
ID 36

This bar and the black square should both measure **150 mm**



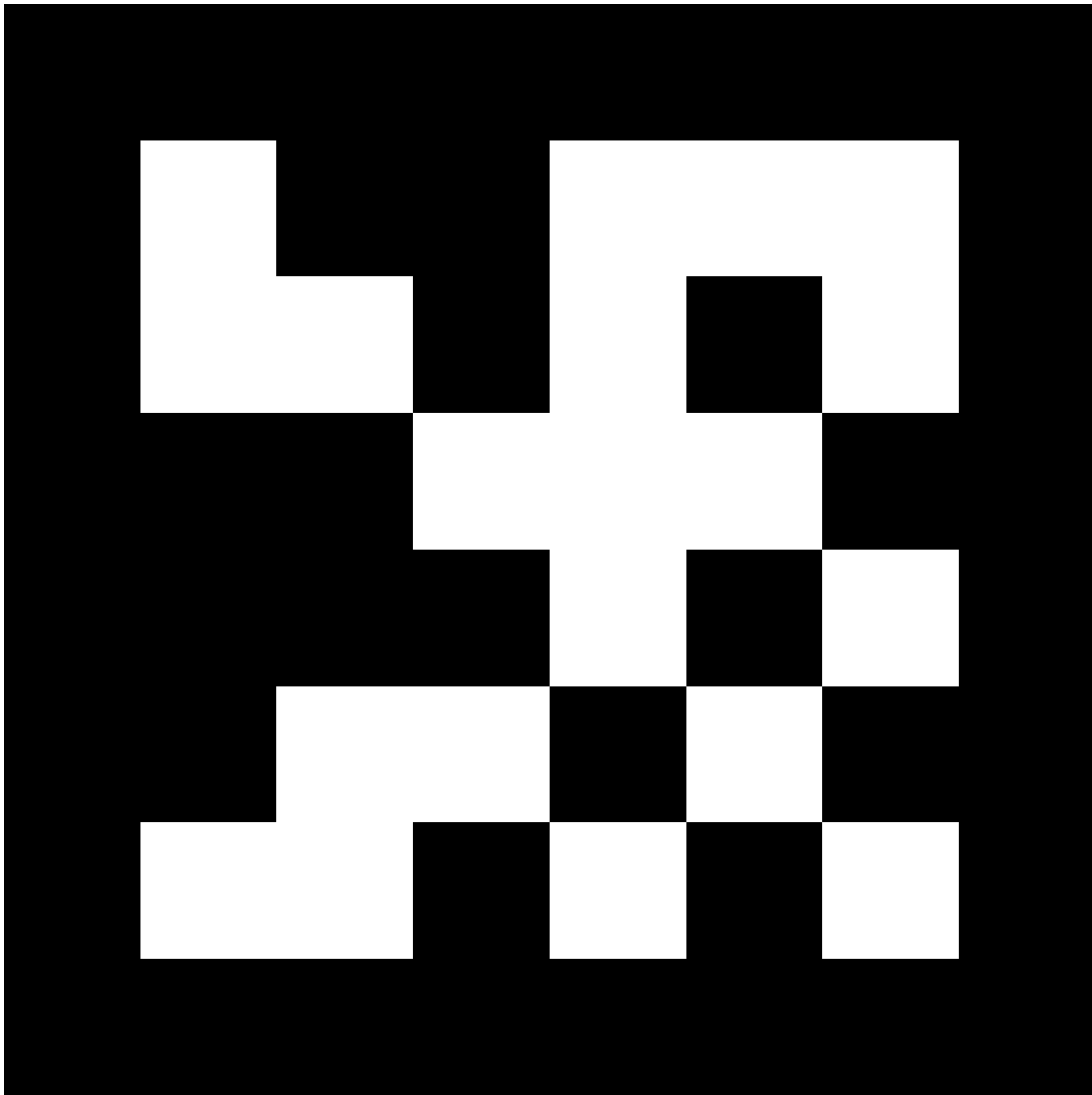
ID 37

This bar and the black square should both measure **150 mm**



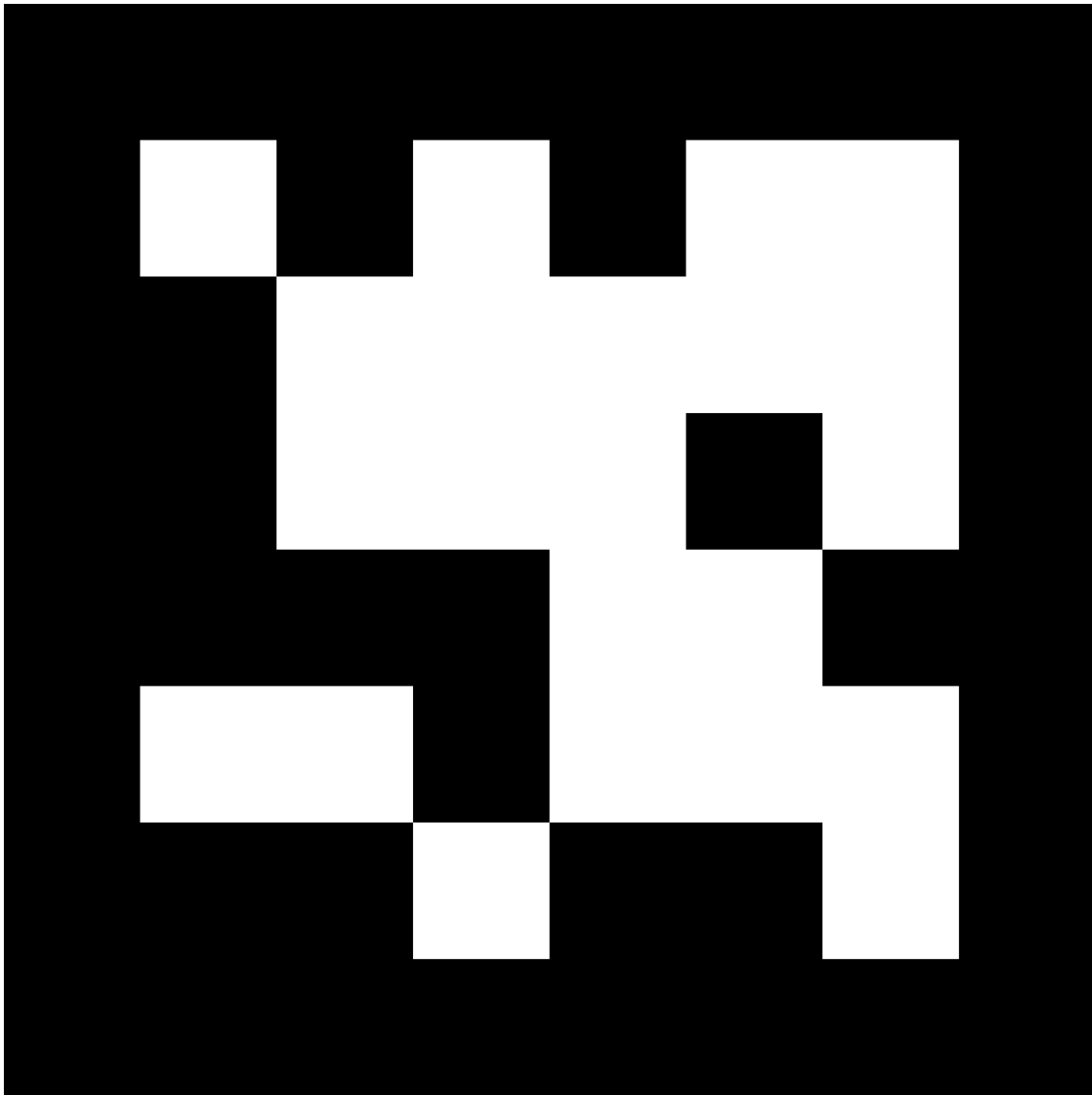
ID 38

This bar and the black square should both measure **150 mm**



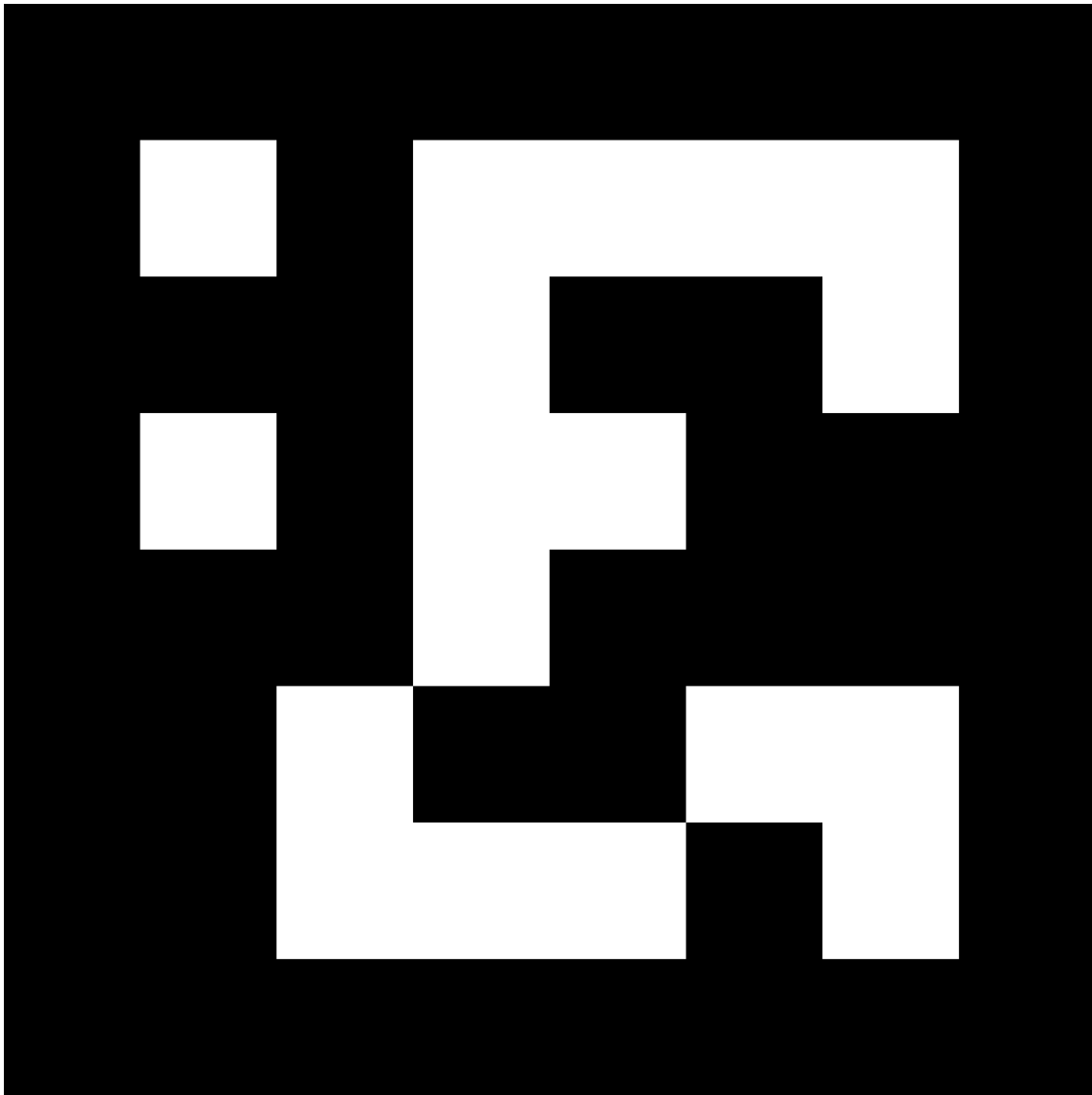
ID 39

This bar and the black square should both measure **150 mm**



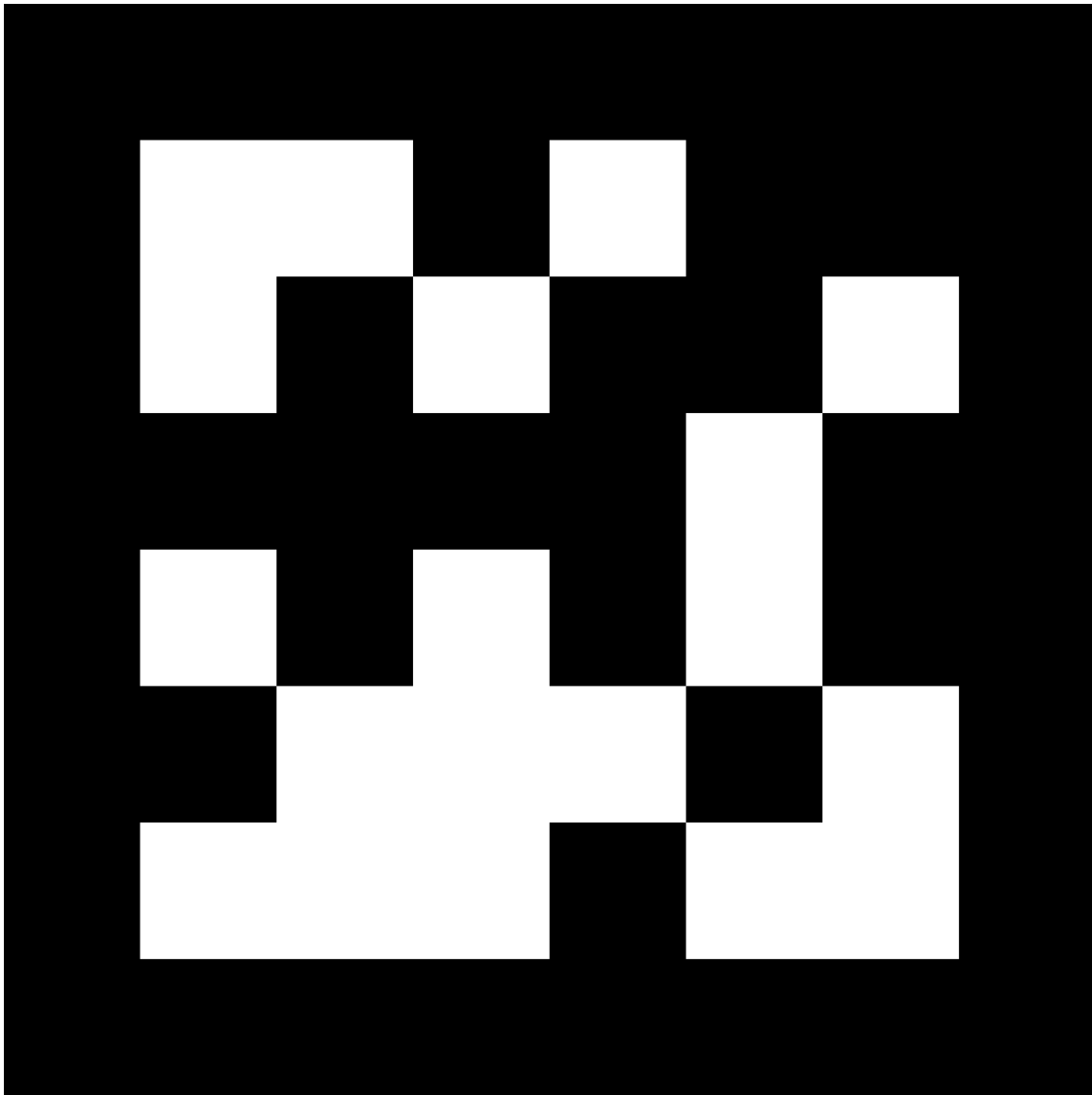
ID 40

This bar and the black square should both measure **150 mm**



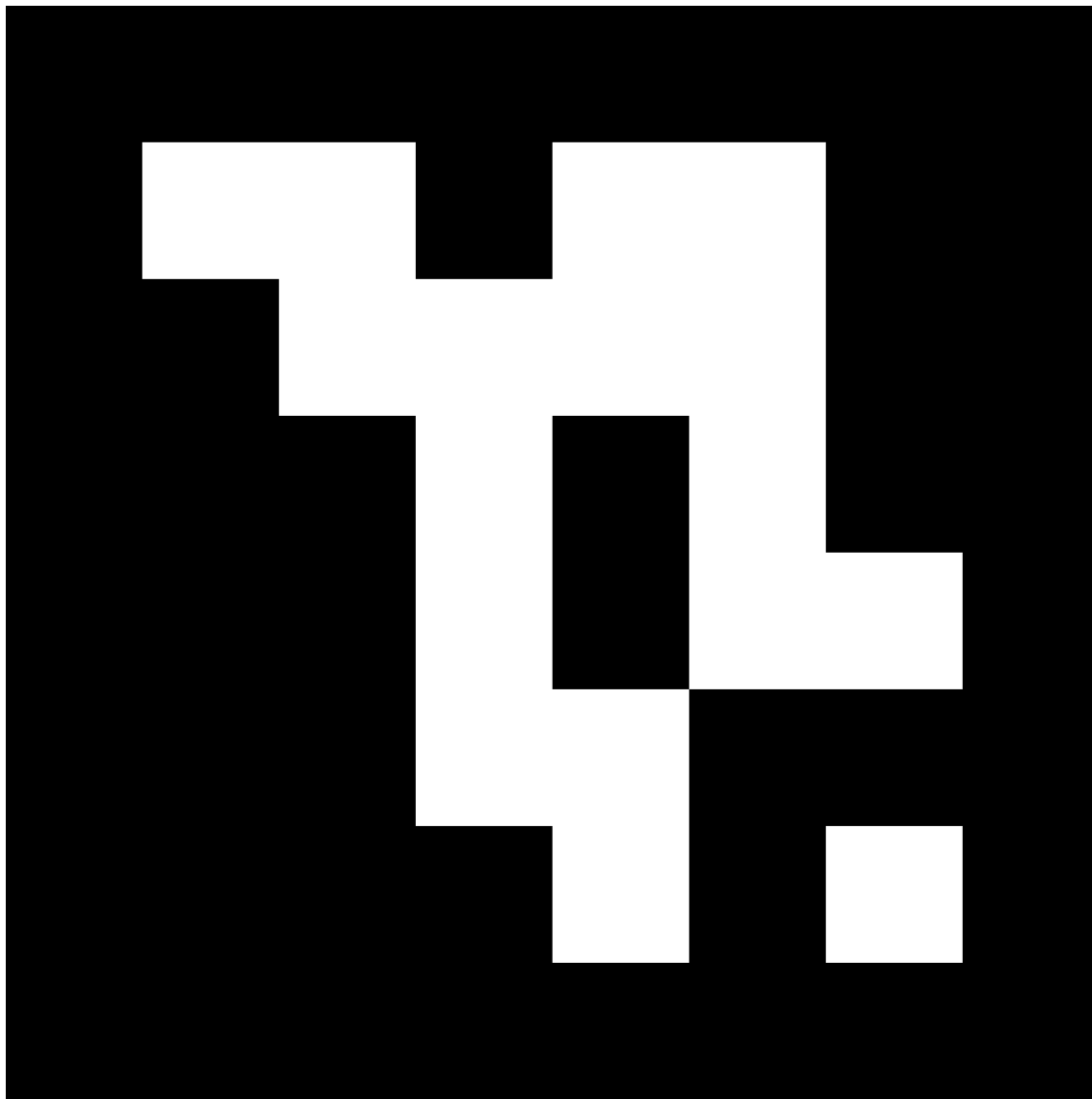
ID 41

This bar and the black square should both measure **150 mm**



ID 42

This bar and the black square should both measure **150 mm**



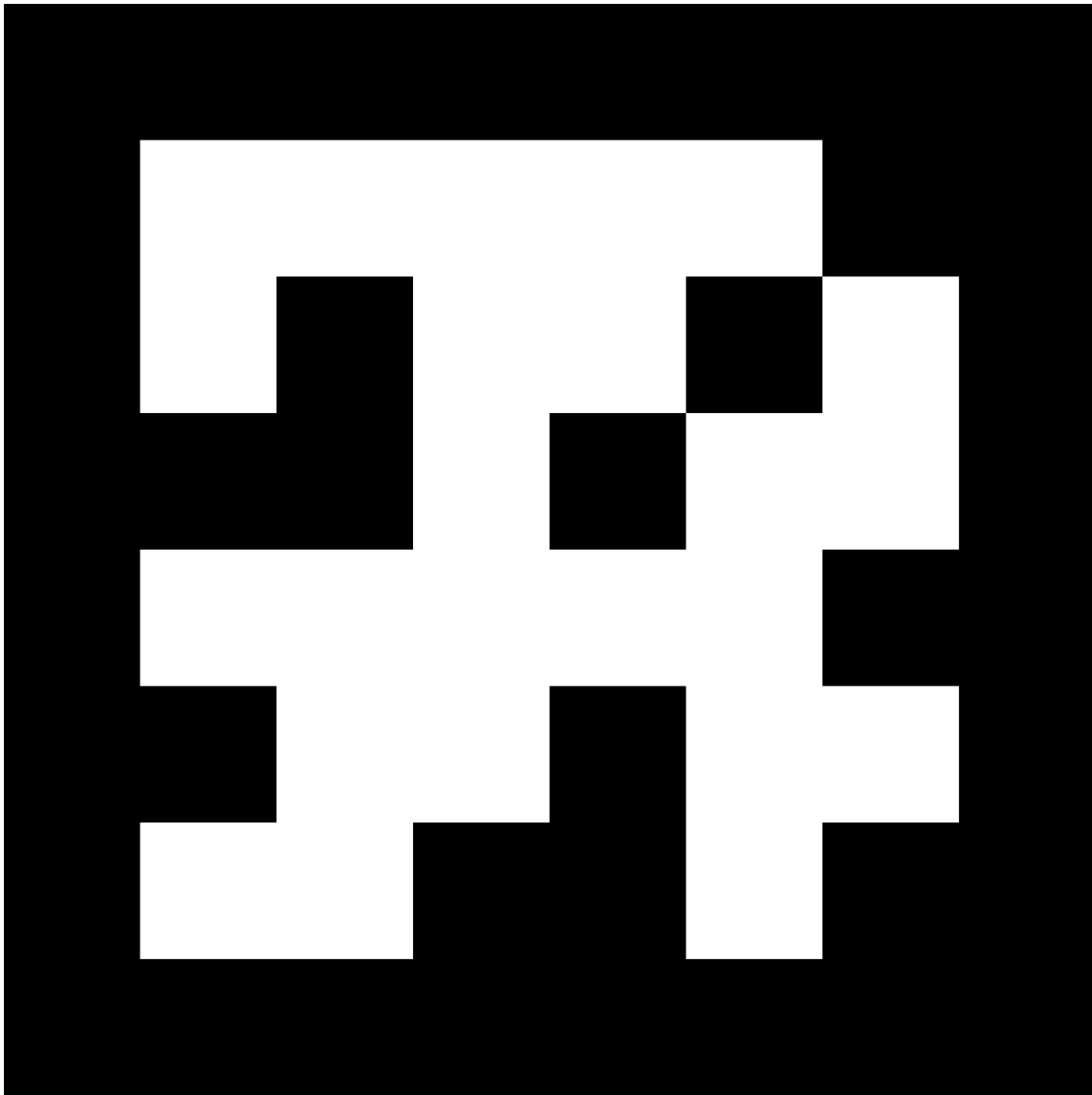
ID 43

This bar and the black square should both measure **150 mm**



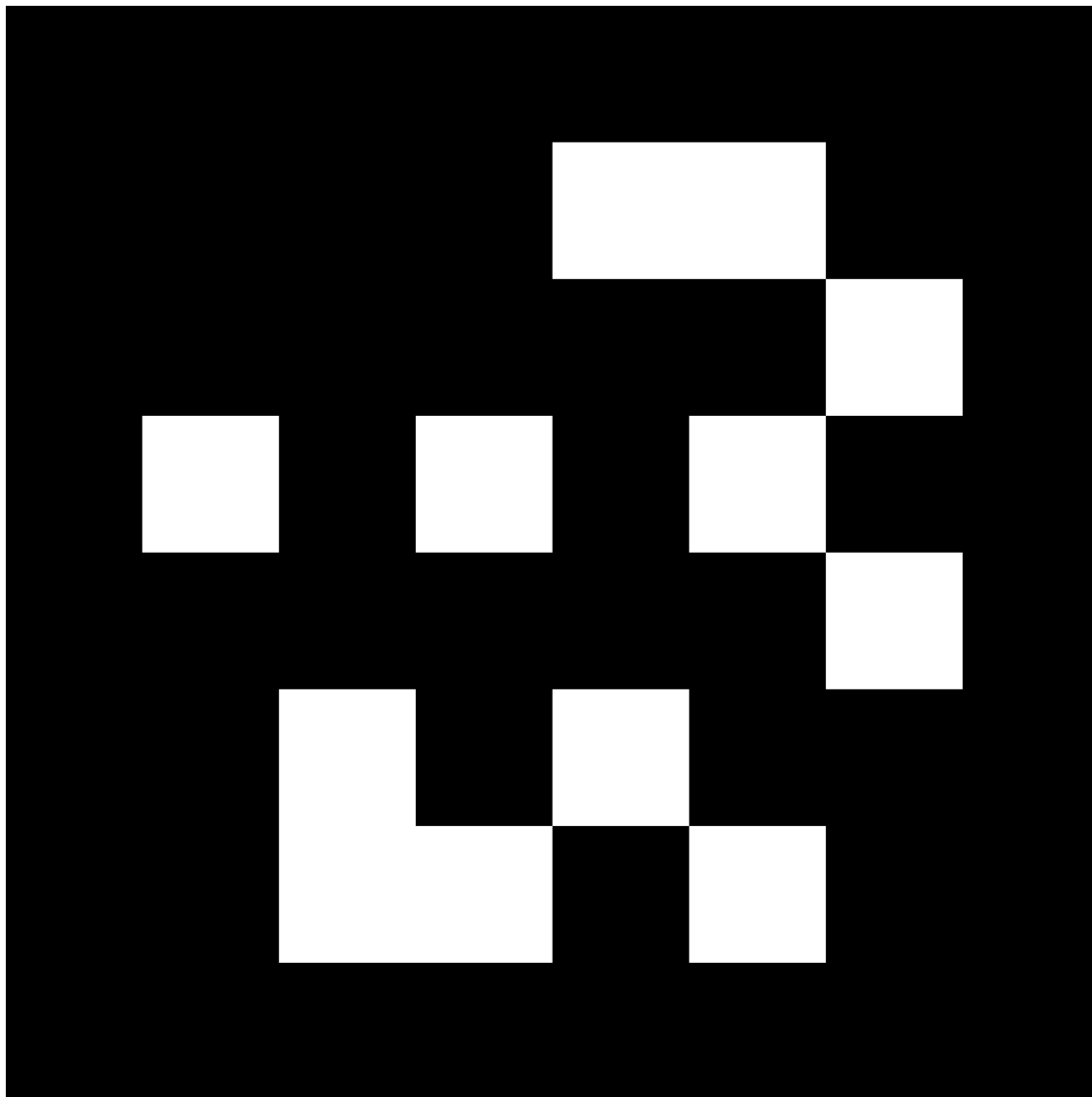
ID 44

This bar and the black square should both measure **150 mm**



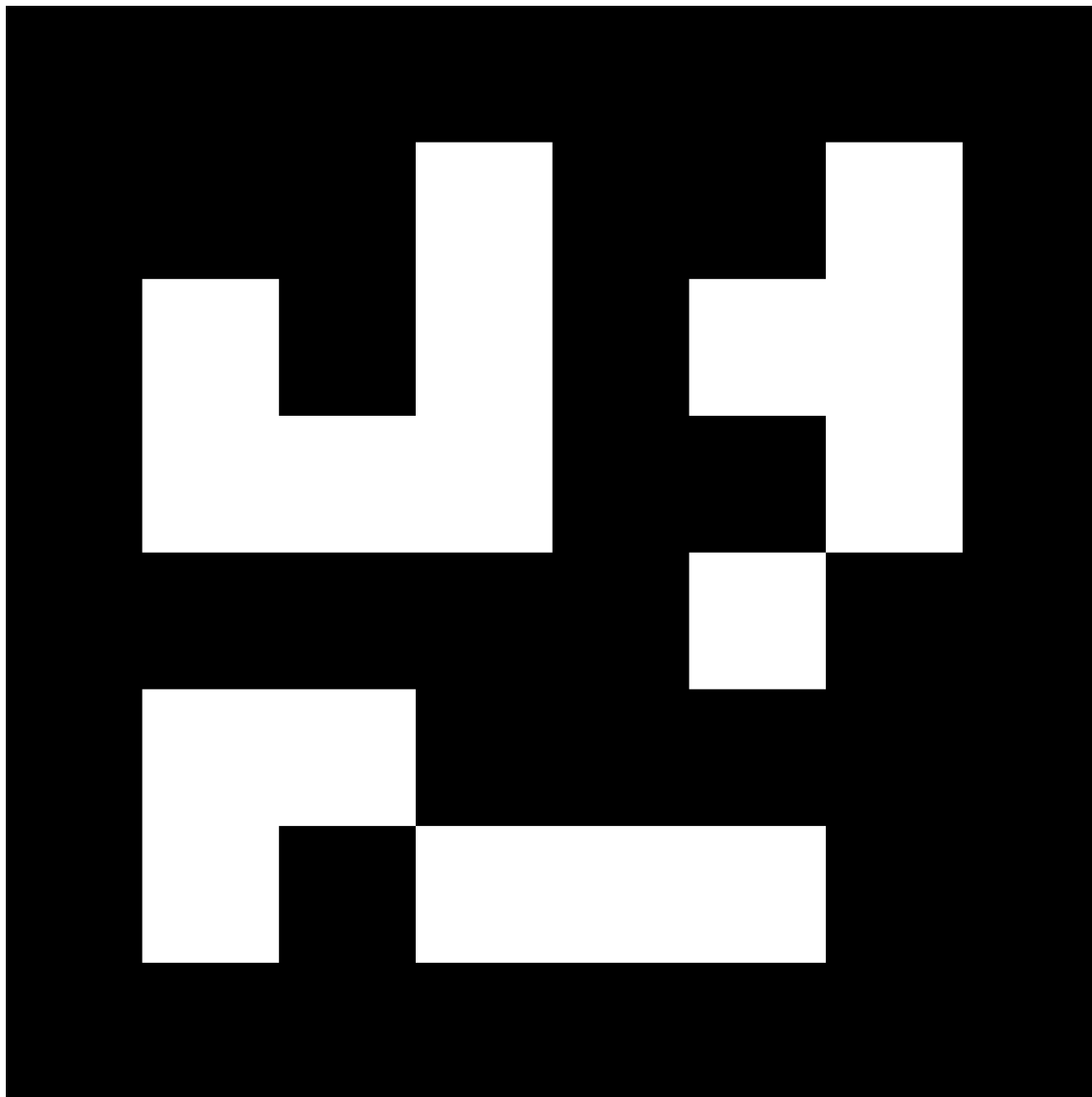
ID 45

This bar and the black square should both measure **150 mm**



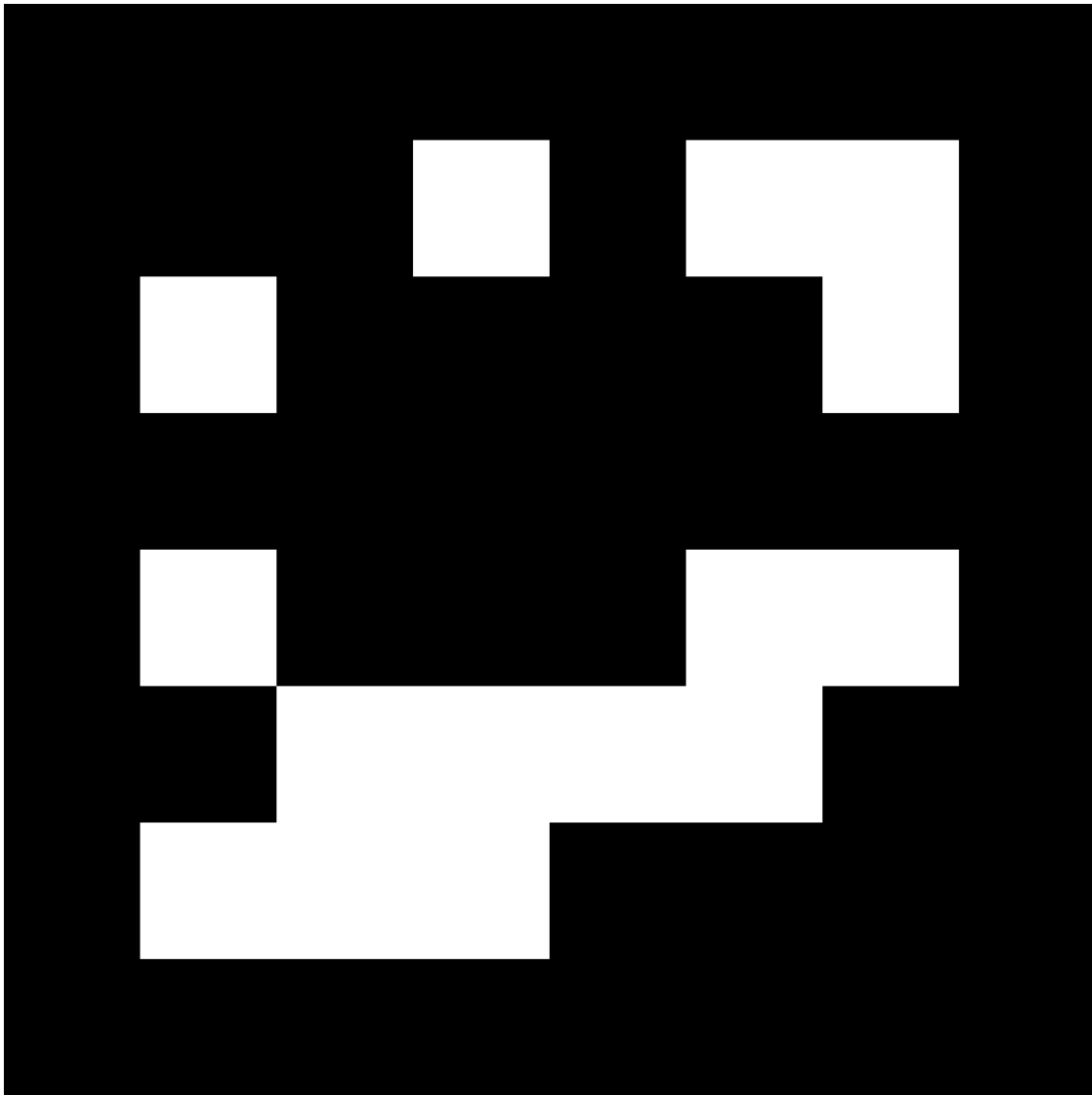
ID 46

This bar and the black square should both measure **150 mm**



ID 47

This bar and the black square should both measure **150 mm**



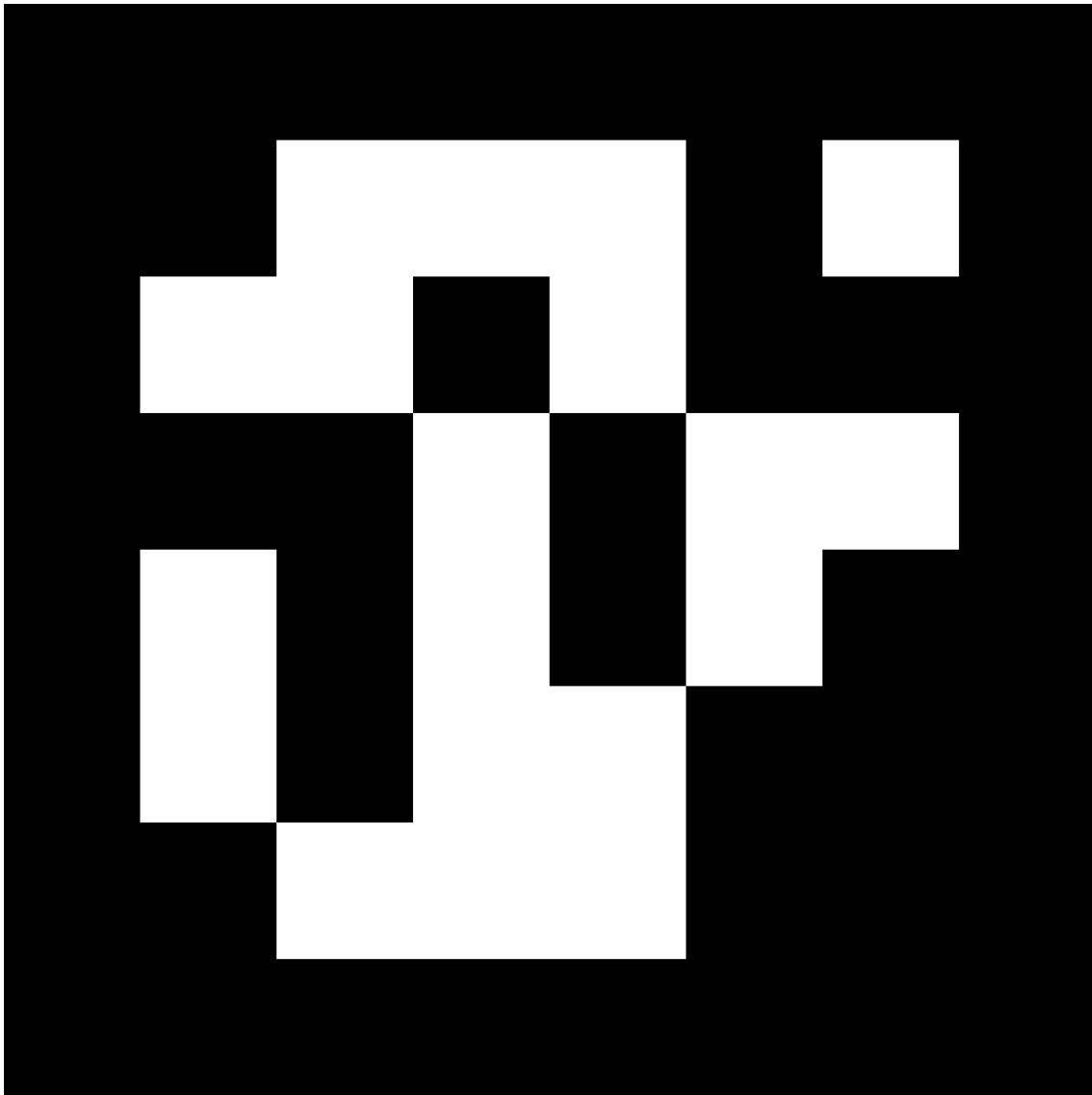
ID 48

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ID 49

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ID 50

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