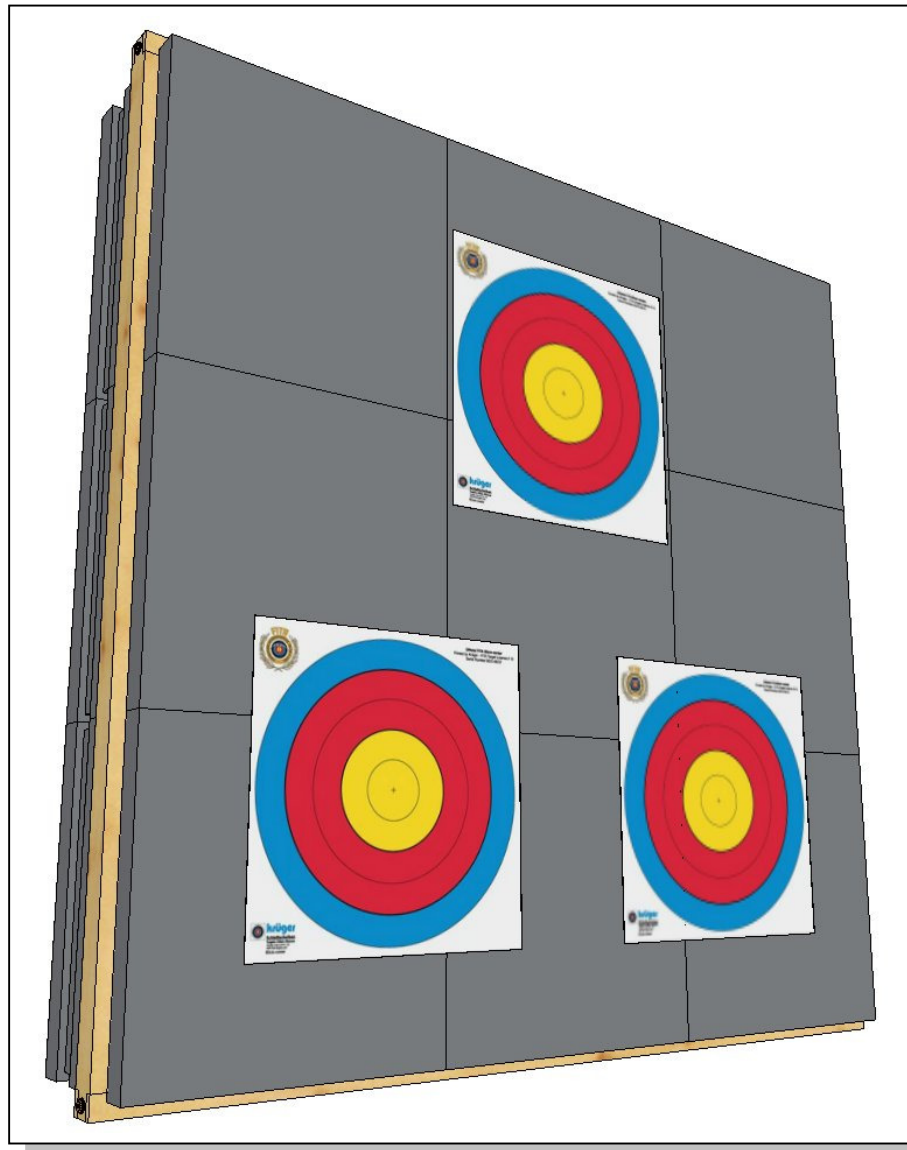


80 cm spot on DANAGE DOMINO Target Mat.

Usage degree of the DOMINO system.



80 cm spot on DANAGE DOMINO Target Mat.

In this paper, we would like to show how the DANAGE DOMINO target mat, can be used and reused over and over again. We would also like to show how a Domino target mat, actually can earn money, if used at competitions. In this way a target mat can actually be a investment that makes money to the archery club.

This instruction in how to use and reuse the Domino target mat, in the most efficient way, is based on using it for 50 m compound archery competitions. But the princips would be more or less the same if used at any distance and with any bowtype.

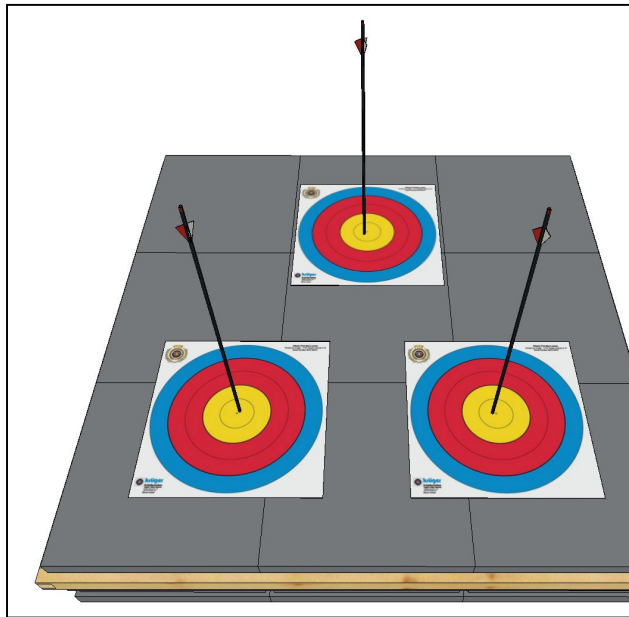


Fig. 1. The 132x132 cm Danage Domino target mat, is build up of 9 pieces of 44x44x24,5 cm (or 31,5 cm) Danage foam modules. 3 pcs. of 80 cm spots are placed on the target mat as shown.

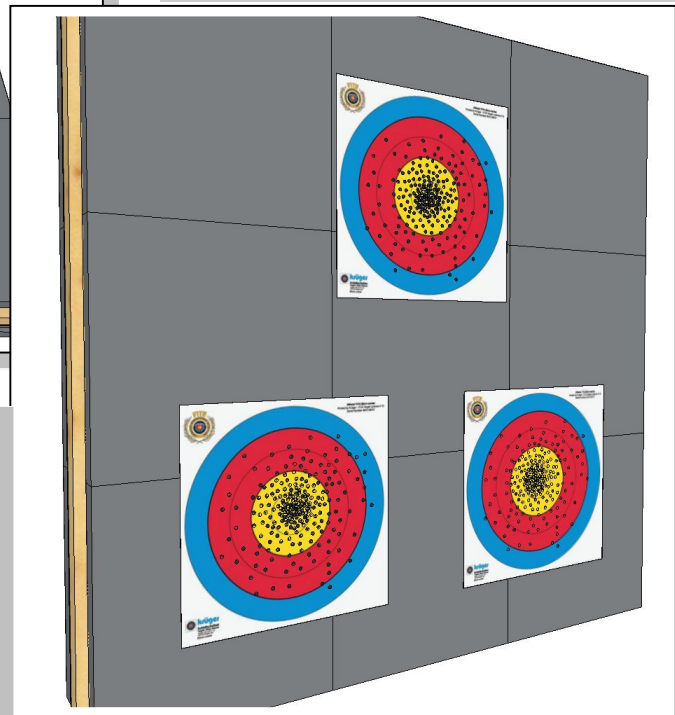


Fig. 2 above. During competition shoots, the target mat is of course damaged most, where the center of the spots are. From experience the foam material can last through 3 competitions, before there is a need to do maintenance on the target mat.

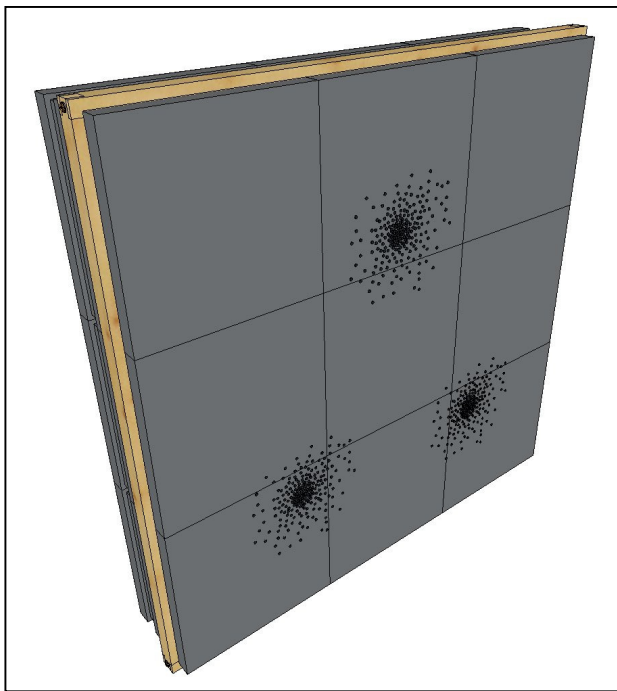


Fig. 3 left. On this image it is shown where the foam modules, will be worn. As it can be seen, most of these 3 foam modules are still as good as new.

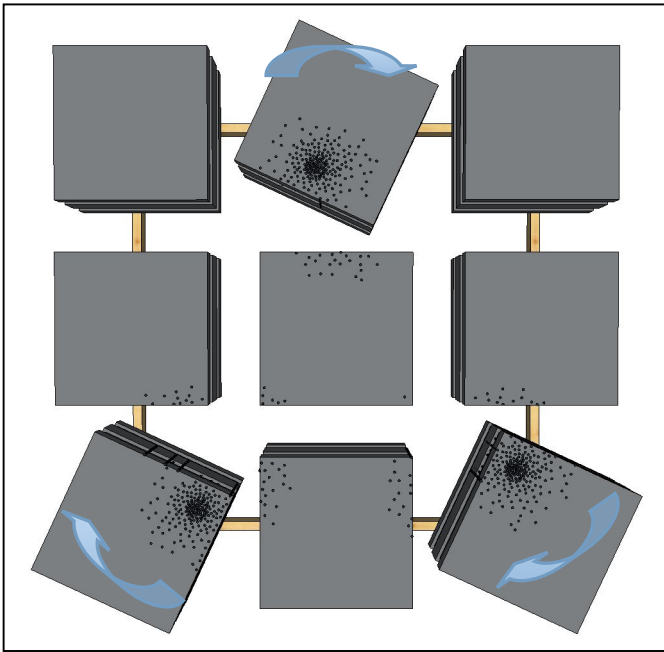


Fig. 4 left. The trick is now to remove the wooden frame, take the foam modules apart and to turn each of the 3 modules 90 degrees.

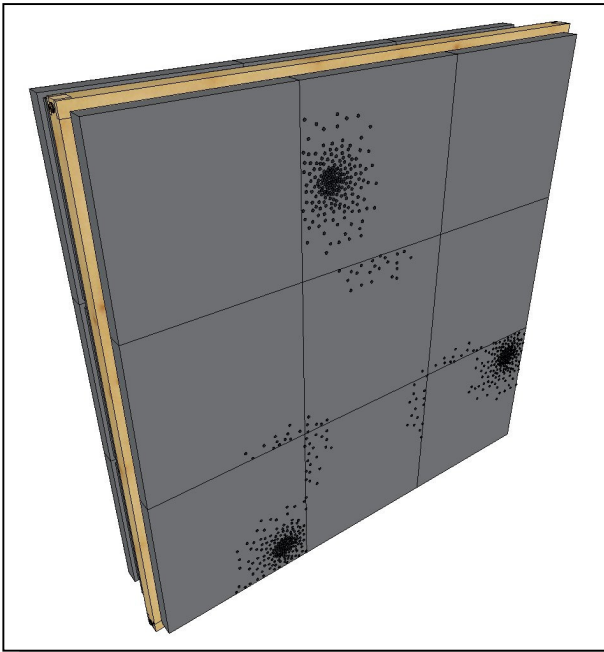
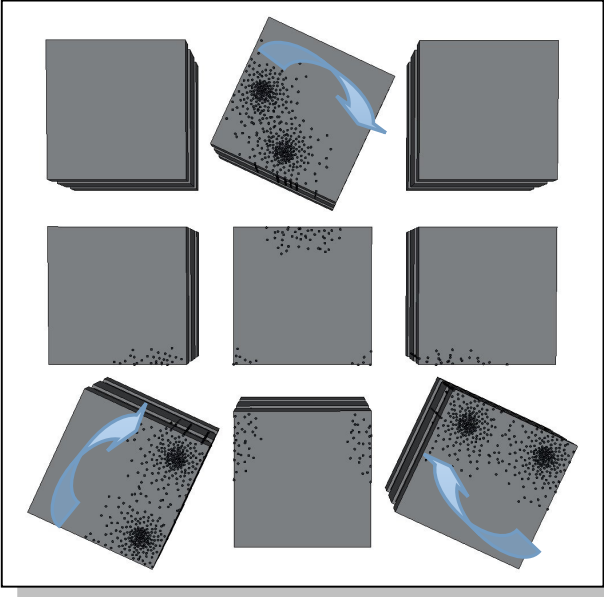
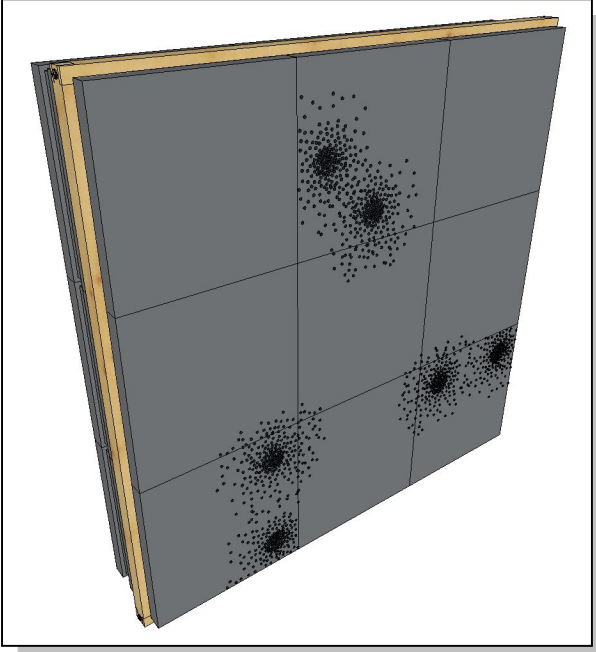


Fig. 5 right. Now the target mat is ready again, placing the 80 cm spots in the same places as in figure 1. Now the areas under the “10”, is fresh to receive arrows.

Fig. 6 left and fig 7 below. After some time again, for example after 3 competitions, the foam modules are again in the need for a rotation.



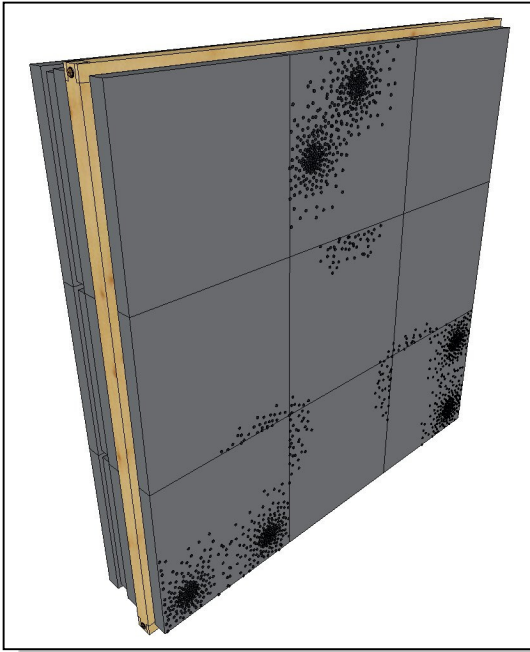


Fig. 8 left. Again the target mat is ready, placing the 80 cm spots in the same place as in figure 1. Now again the areas under the “10”, are ready to be worn.

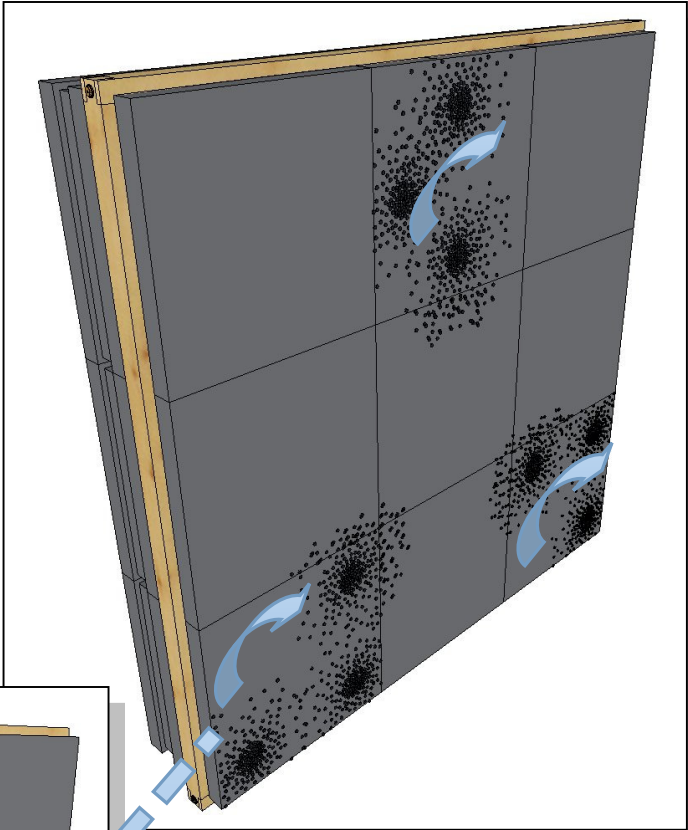


Fig. 9 right. This image shows that the foam modules are now worn in 3 spots each. The next step will be to turn them 90 degrees again, as in figure 7.

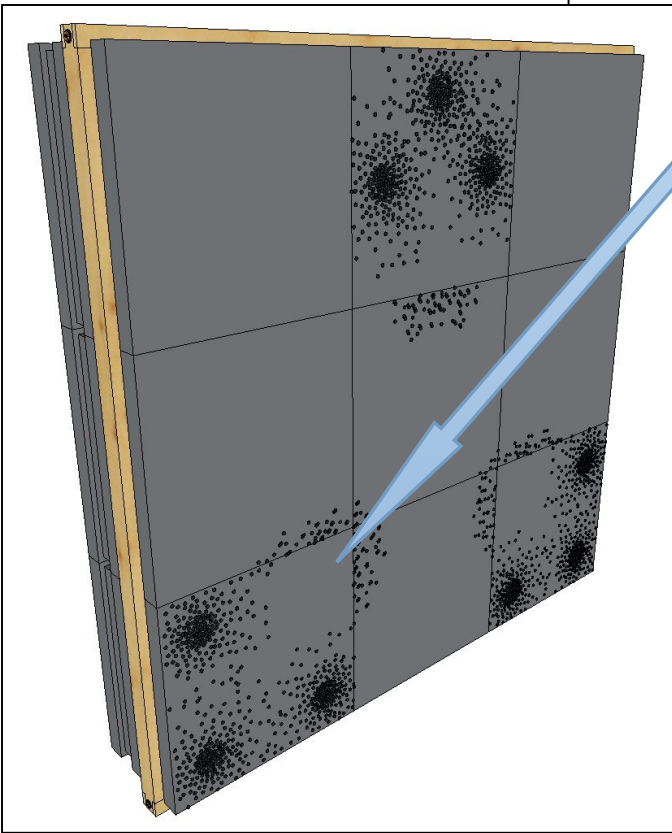


Fig. 10 left. Here the modules are turned and the target mat is ready.

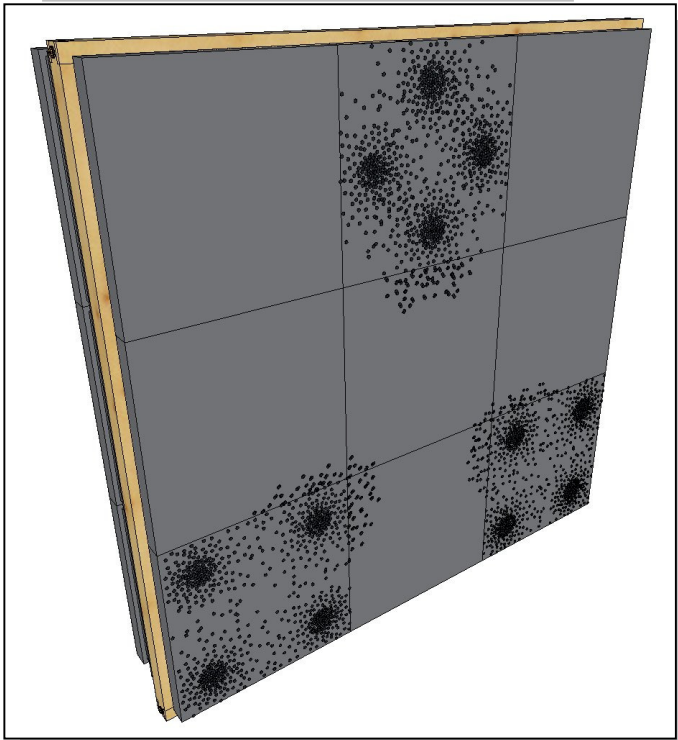


Fig. 11 right. As one can see on this image, all “corners” of the 3 modules are worn. (But for example the 2 in the bottom row, could still be used in the middle, for recurve or compound).

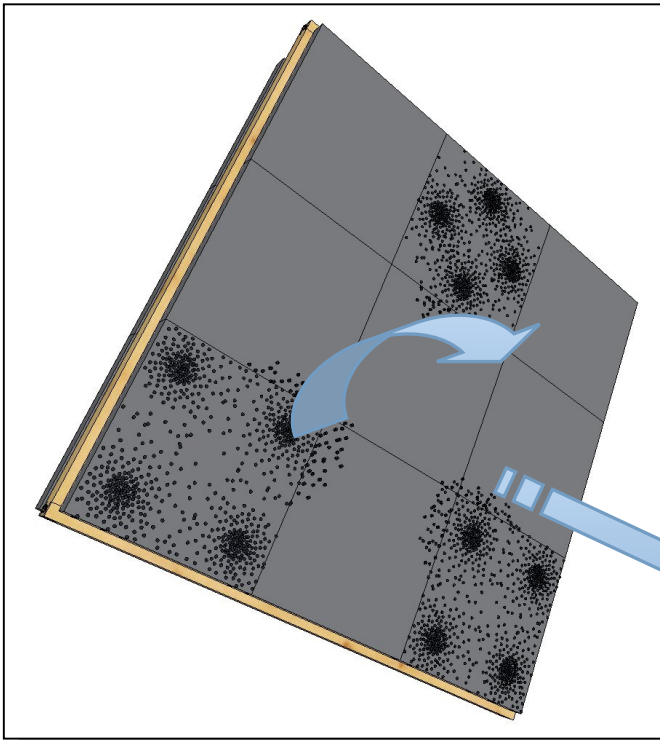


Fig. 12 left and fig. 13 and 14, below. The whole target mat, is now turned 180 degrees. This means that there will now be 3 almost completely fresh modules, to use for the 80 cm spots.

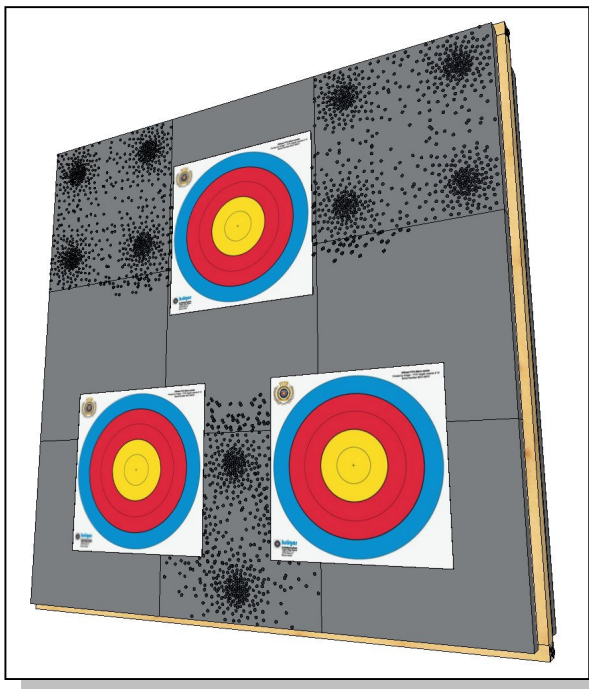
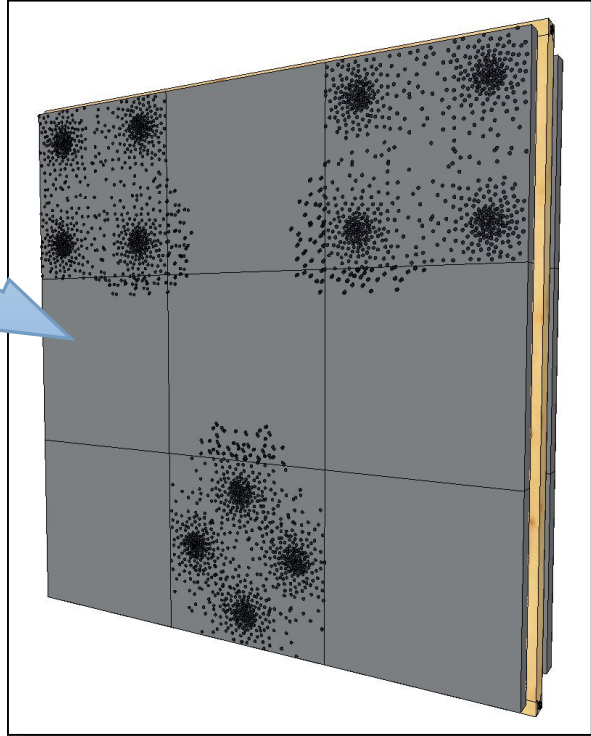
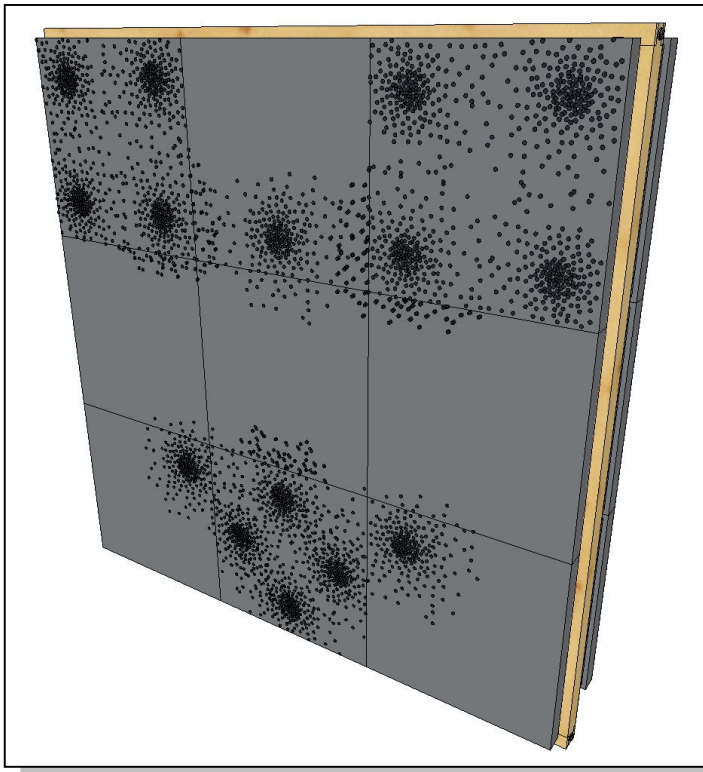


Fig. 15 right. Now the story starts all over again, in princip as figure 3 and forward.



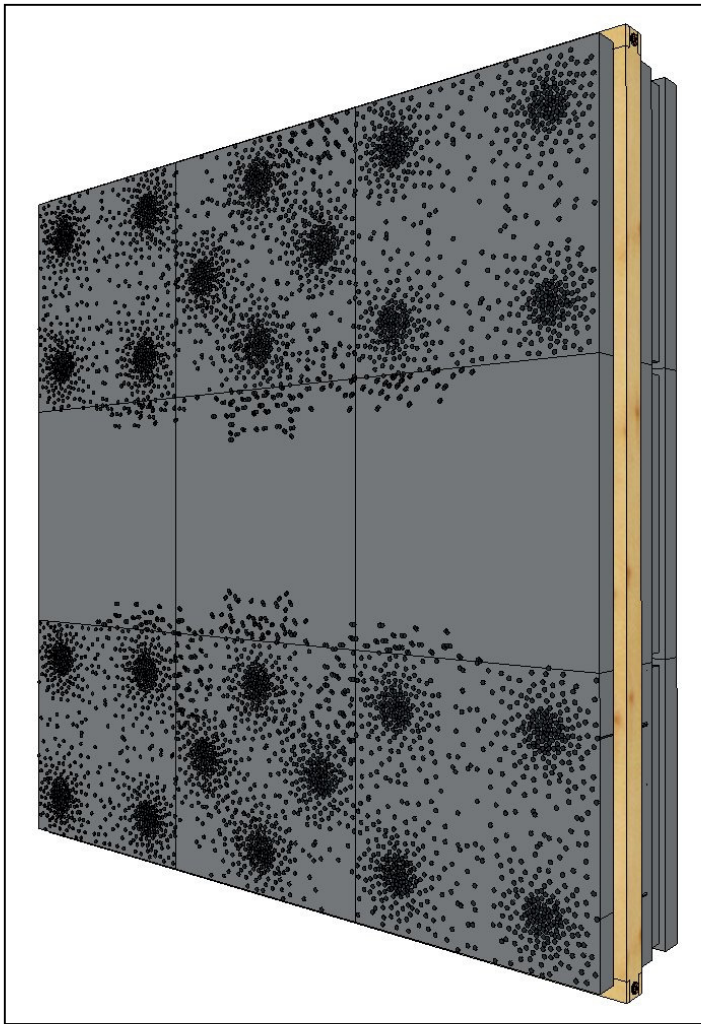


Fig. 16 left. After having turned each of the 3 modules, as shown in the previous, so that the modules are again worn in 4 “spots”, the target mat would more or less look like this image.

Fig. 17 below. On the backside however, the target mat would look almost as fresh as new. There would be a very few places where the arrows have shown up at the backside (but no pass-throughs).

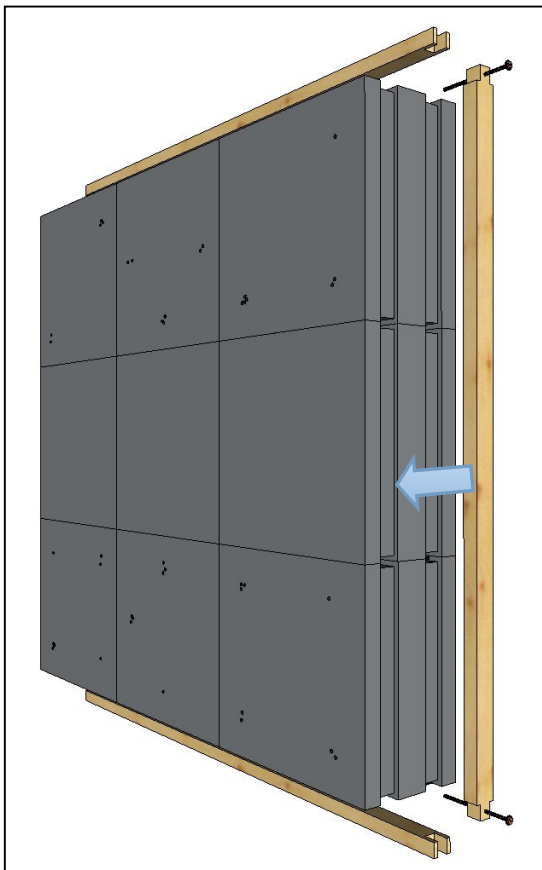
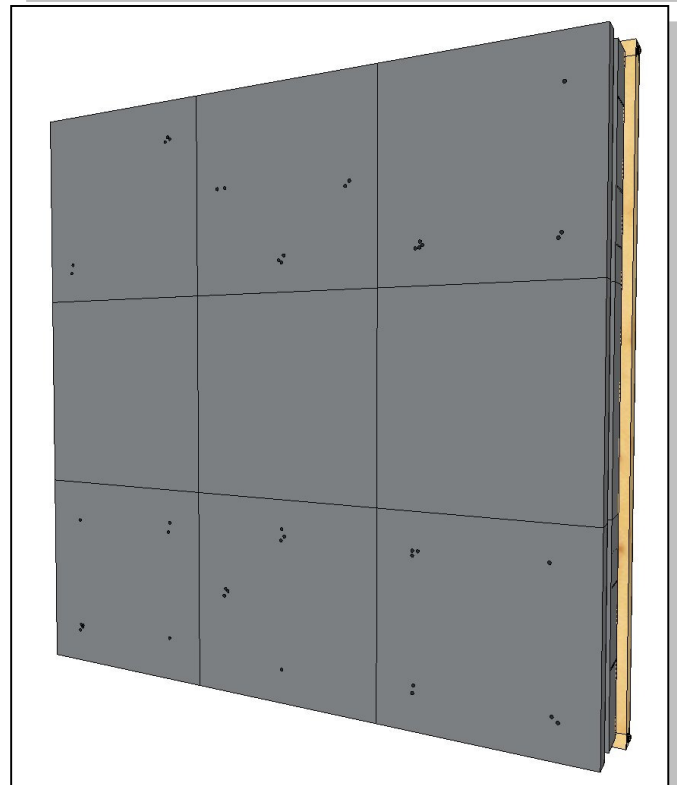


Fig. 18 left. The intention is now, to move the wooden frame to the “backside” grooves of the foam modules. In this way it will be possible to use the backside of the target mat, as front to shoot at.

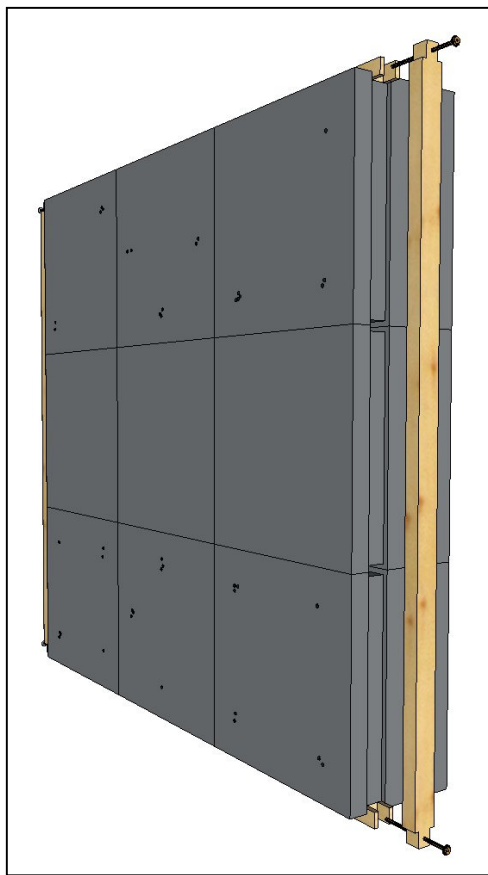


Fig. 19 above. The wooden frame is fastened near the “backside”.

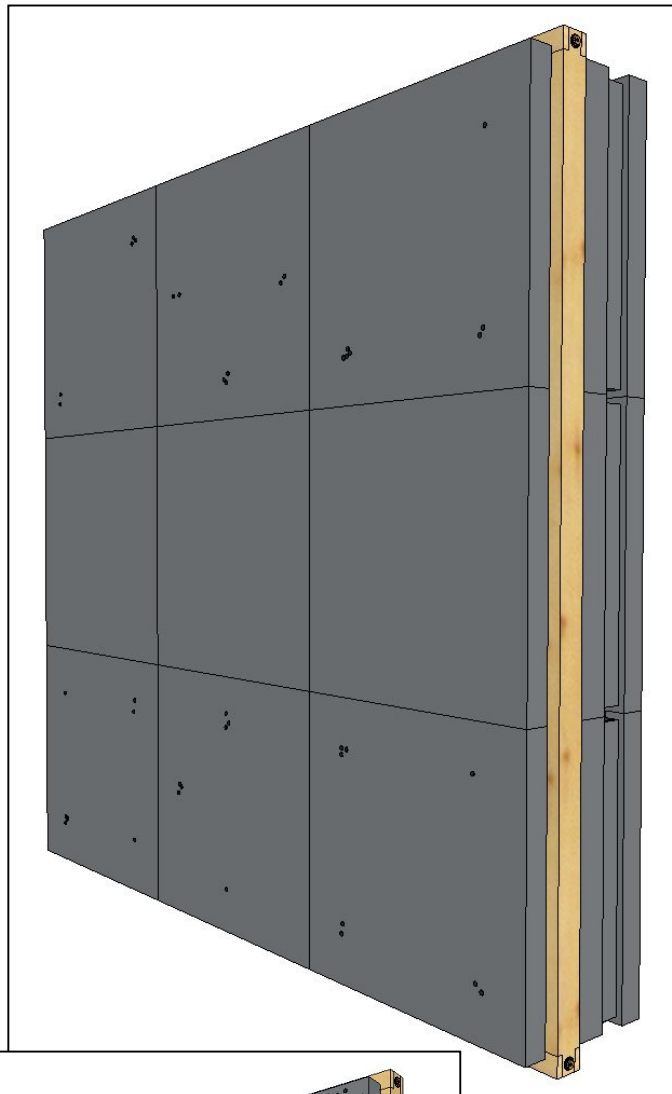
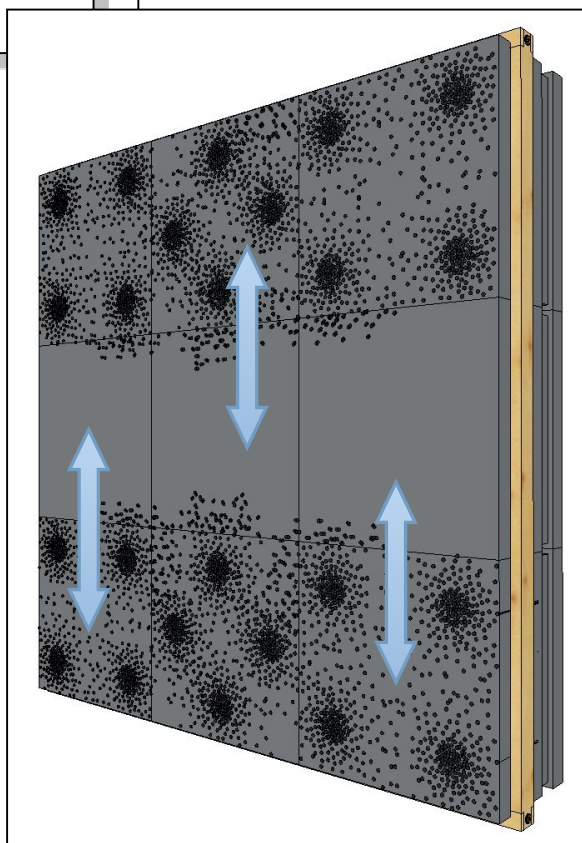


Fig. 20 right. Now the target mat is ready again to go through the same steps again, as step 1 to 17.

Fig. 21 right. With regards to the 3 modules in the middle of the target mat, one can choose either to let them stay there and use them for example for full face target faces. Or as shown in this image, to switch them, making it possible to start from figure 1 again and go all the way through the steps, to figure 20.



Usage degree and costs benefits of the Danage Domino Target mats.

A target mat like this one costs appr. € 550. So how many competitions this target mat, would last for? We assume that at each competition, there are 3 archers shooting at this target mat, each shooting at one of the 3 foam modules. Each “corner” lasts through 3 competitions, before it is necessary to turn the module 90 degrees. The module can be “used” 4 times - and then 4 times again from the backside - so 8 times in total. That means that each of the 3 foam modules, lasts $3 \times 4 \times 2 = 24$ times (24 competitions).

But that is only the 3 foam modules. But remember that we in figure 12, turned the whole target mat, so we could use another 3 foam modules, with the same amount of wear. So now they can be used for another 24 competitions. But let us just assume for a moment that after 24 competitions, the archery club “degrade” the target mat to be a club training mat. So we look at the cost benefit, based on only 24 of the 50 m compound archery competitions.

For each competition, 3 archers have paid for using the target mat. That means that the cost for each archer is as little as: $550 / (24 \times 3) = € 7,64$. Depending on the fee, that it costs to participate in a competition, this is maybe only 1/3 of the competition fee.

Of course there are also other expenses at these competitions, but this example shows that the investment in these target mats, after some time will come back and they will start to earn money to the club.