

# Analysis of the fire test PUR panel **3,937 (inch) / 100 mm**



Web: [www.movychem.eu](http://www.movychem.eu) ,  
<http://www.movychem.eu/36-fire-protection>

**Made on a continuous line.**

Preparation and installation of PUR panels into a test frame :



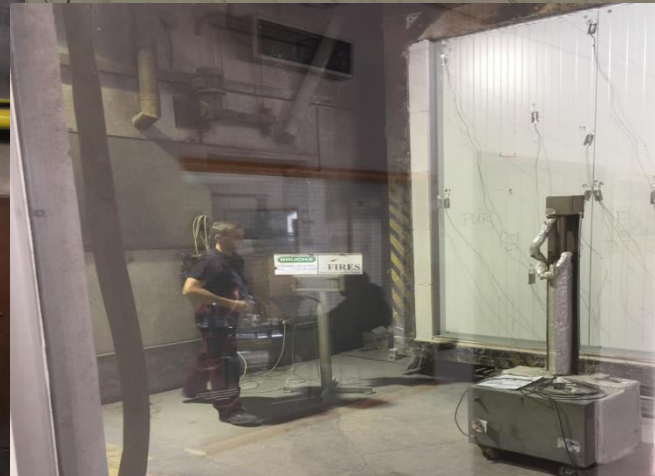
Panel ready for testing with sensor fitting according to EU standard for PUR panels :

Full panel with temperature sensors

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Right side of panel and sensors

Left side of panel and sensors





Panel photo - fire / furnace assemblies before trial.

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Immediately after **60 minutes** of completion of the test, opening of the test holes in the panel for the purpose of the analysis of the joint and the result of functionality of the MOVYCHEM system was carried out. At the first analysis, see picture no.1 of the joint, it was found that the loose system was 50% undamaged see. blue arrow. Na picture below is visible balance of undamaged, untreated PUR foam approx. 2-3cm

## Cut-out # 1



On sheet metal cut out from opening no. 2 shows a balance of undamaged PUR foam.

On the next images, we see the foam insulation structure of the MOVYCHEM foam system.

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Proof of activation of the system - MOVYCHEM technology and creation of a full, compact protective material in the panel space of 3,937 (inch) 10cm. With a base panel size of PUR 3,937 (inch) 10cm.

**Cut-out No. 2  
in the panel**

A photograph showing a cut-out section of a panel. The interior is filled with a dark, porous, fibrous material, likely the activated MOVYCHEM foam. The edges of the panel are visible, showing some fraying and the underlying structure.

**Thickness of created  
foam protection from  
MOVYCHEM  
technology and  
protection of panel  
joints**

A close-up photograph of the foam protection material. A white measuring tape is placed horizontally across the foam to indicate its thickness. The tape shows markings from 3 to 4 inches, with the foam filling the space between the 3 and 4-inch marks. The foam has a dark, textured appearance.

3,937 (inch)

## **Conclusion and outcome of EU test evaluation:**

**MOVYCHEM panel and joint technology is applicable not only to PUR panels but also to OSB, polystyrene, organic and inorganic materials.**

**High economic, ecological and timeless value of fire resistance.**

**With MOVYCHEM's long-standing development and research he has once again convinced of the timelessness of this technology and of all the technologies that have been developed so far, ending with the patent application and the move for the whole world.**

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