



Testing Laboratory 1045.1 accredited by the Czech Accreditation Institute pursuant to  
ČSN EN ISO/IEC 17025:2018

**Strojírenský zkušební ústav, s.p. Zkušební laboratoř**  
**(Engineering Test Institute, Public Enterprise, Testing Laboratory)**  
Hudcova 424/56b, Medlánky, 621 00 Brno

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## TEST REPORT

### 39-17692/JP

**Product:** Harden carbon steel wood screw  $\varnothing$  (5,0x90) mm,  
surface coating: MFT2000

**Customer:** Hikoki Power Tools Norway AS  
Kjeller vest 7, N-2007, POSTBOKS 124  
2007 Kjeller  
NORWAY

**Manufacturer:** Hikoki Power Tools Norway AS  
Kjeller vest 7, N-2007, POSTBOKS 124  
2007 Kjeller  
NORWAY

**Report issue date:** 2024-06-25

**Distribution list:** 1 copy to the Customer  
1 copy to the Engineering Test Institute

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SP-2021-000012\_1\_12



### **I. Description of product tested**

Harden carbon steel wood screw  $\varnothing$  (5,0x90) mm, surface coating: MFT2000, for cycling corrosion test  
EN 14592:2022 and Nordtest Method NT MAT 003

Photo documentation:



### **II. Sample tested**

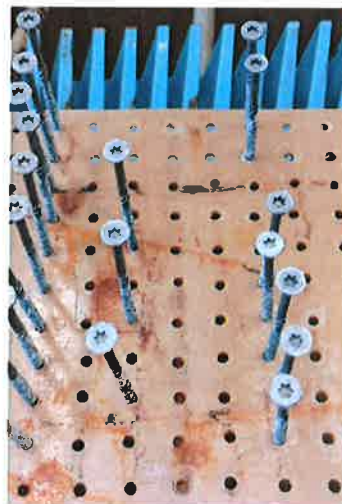
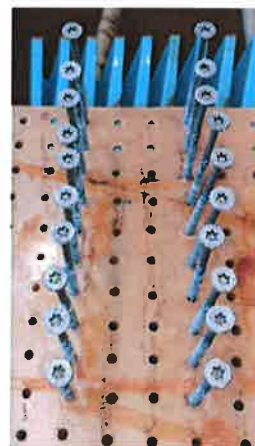
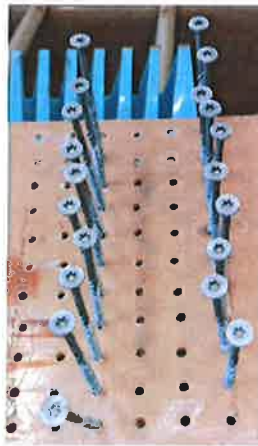
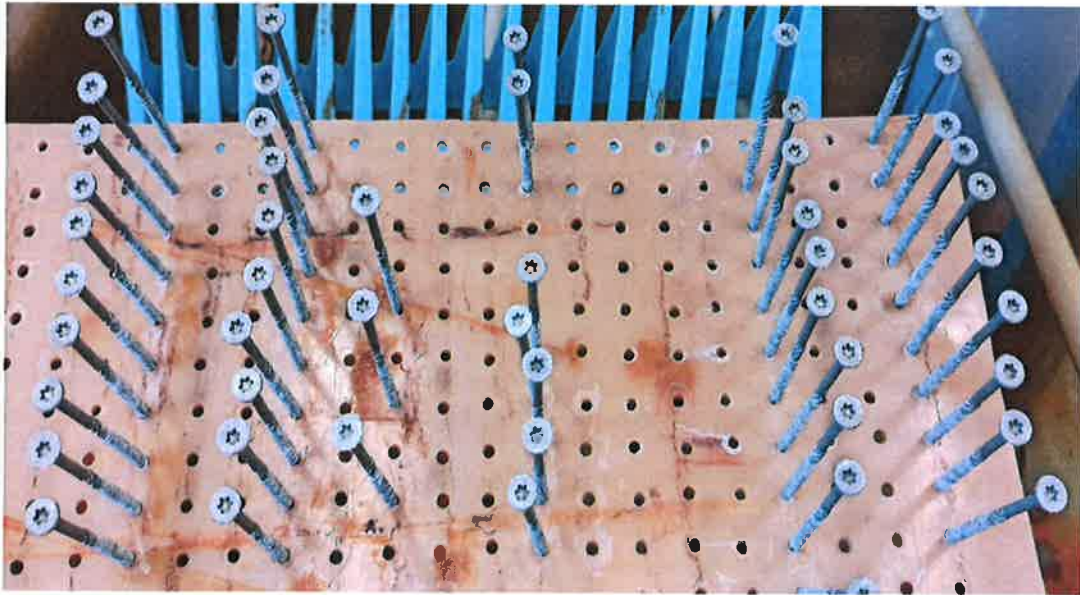
<b>SZU reg. no.</b>	<b>Product name</b>	<b>Date of submission</b>
1216.24.39928.001-100	Harden carbon steel wood screw $\varnothing$ (5,0x90) mm	2024-04-19

The visual inspection, tests and verification were carried out by Aneta Monika Kout at the test station of SZU. The tests were performed using measuring and testing equipment with valid calibration.

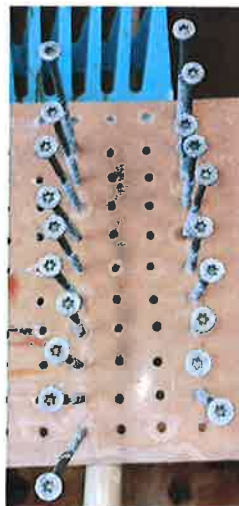
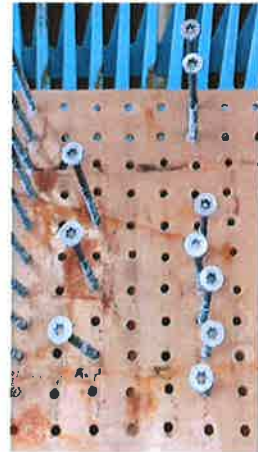
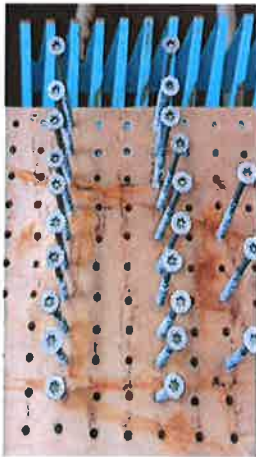
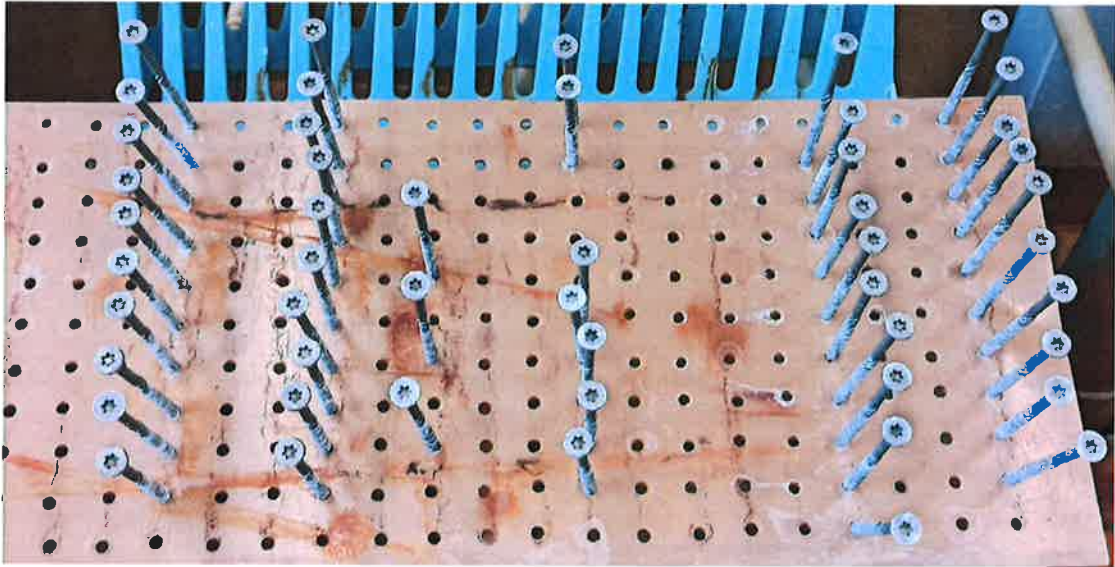
### **III. Measuring and test equipment:**

<b>No.</b>	<b>Description</b>	<b>Inventory number</b>
1.	Cyclic corrosion chamber Q lab	000-000-000-854

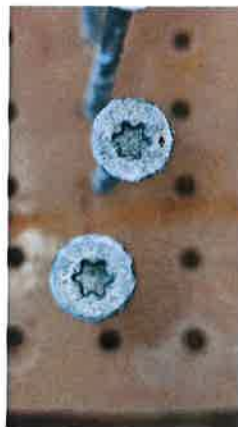
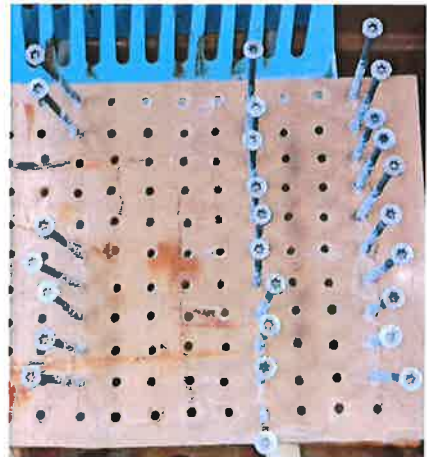
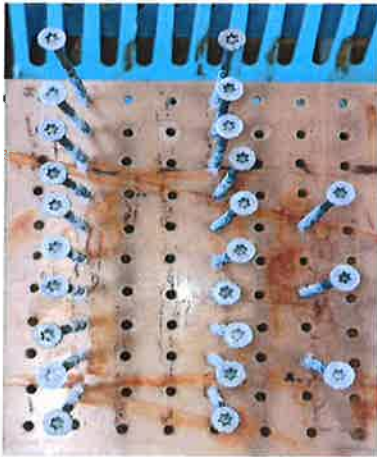
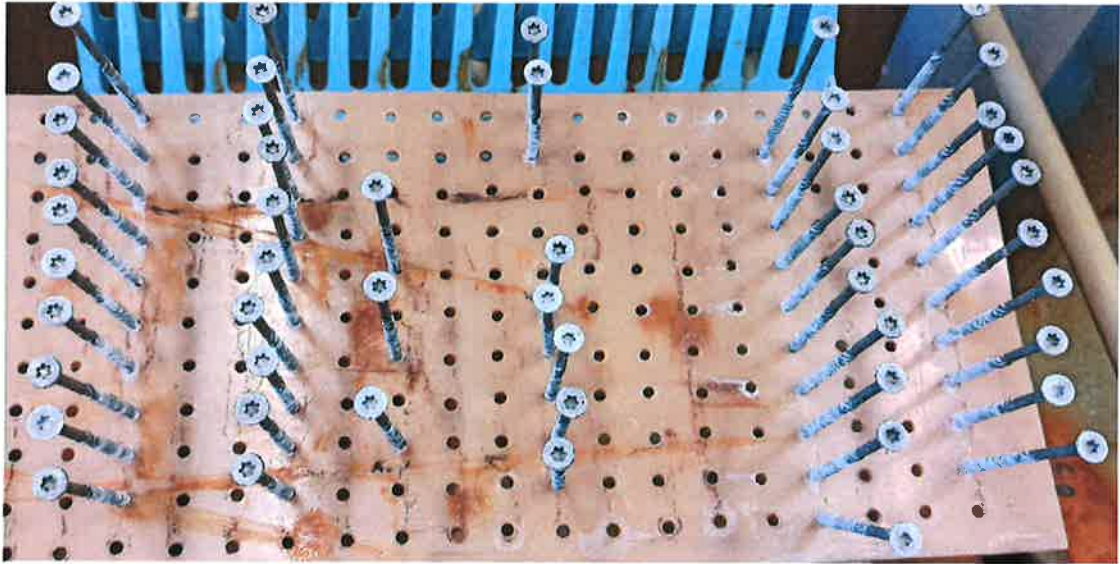




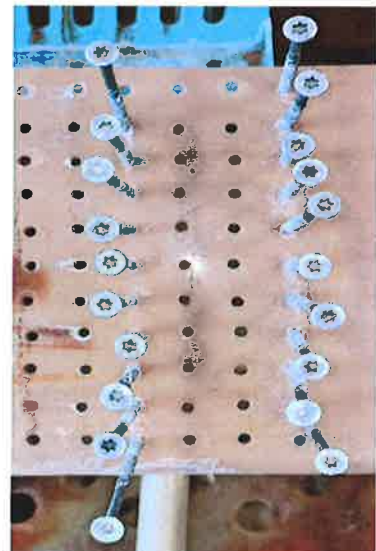
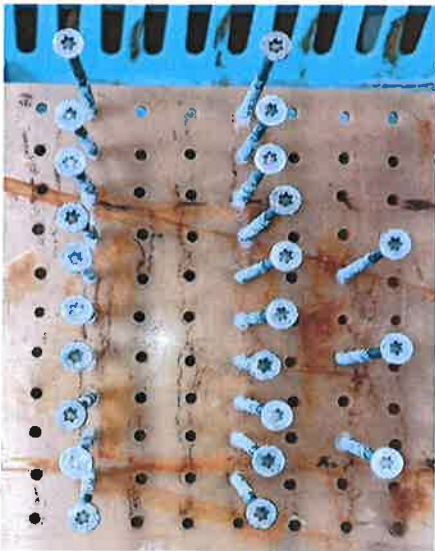
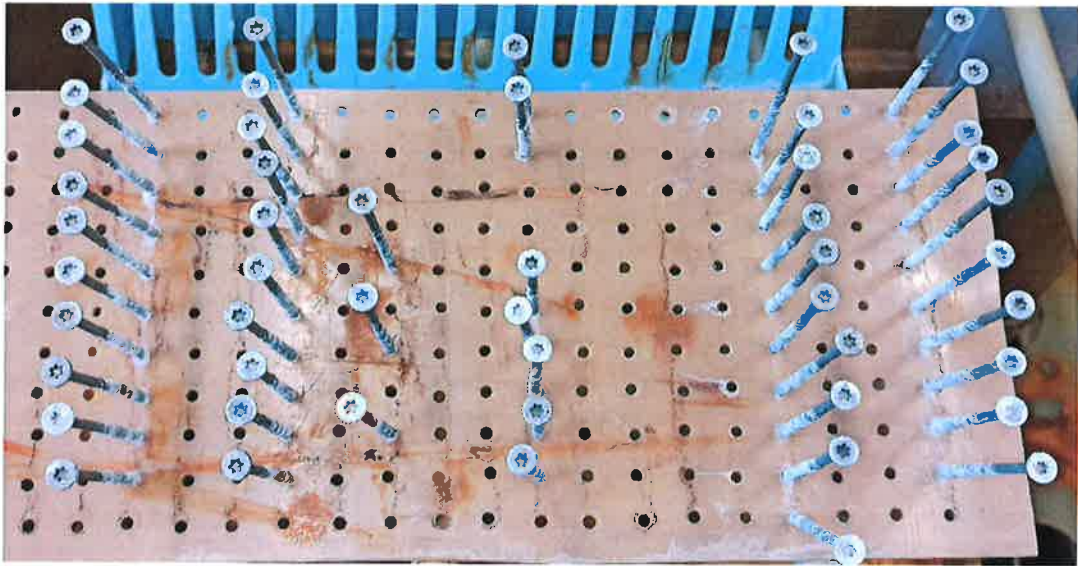
After 1<sup>st</sup> week



After 2<sup>nd</sup> week

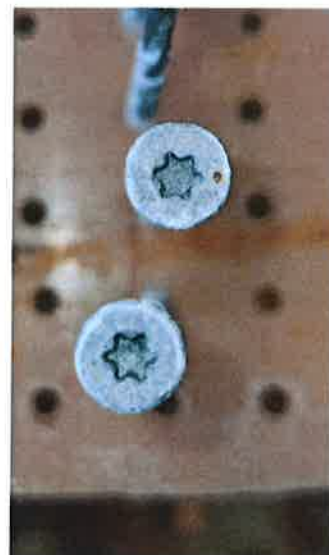
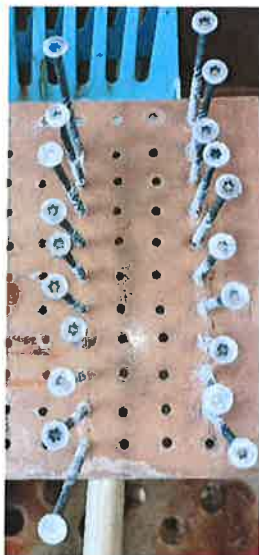
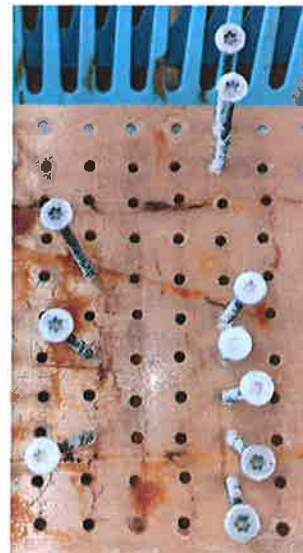
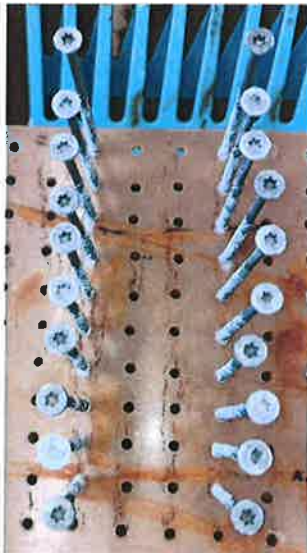
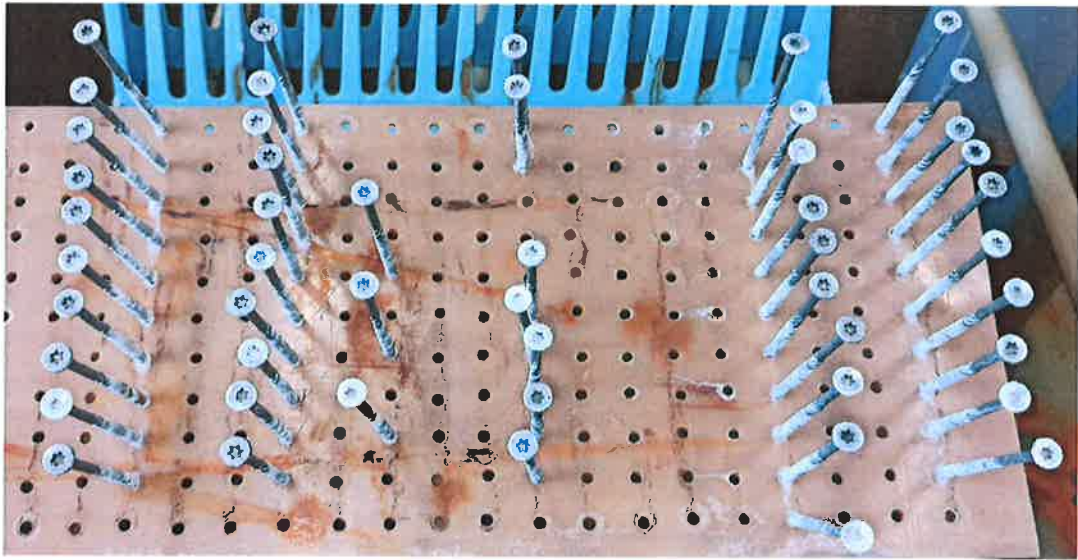


After 3<sup>rd</sup> week

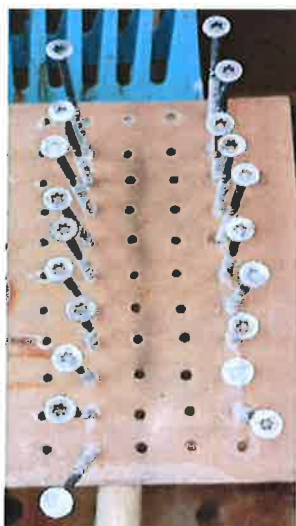
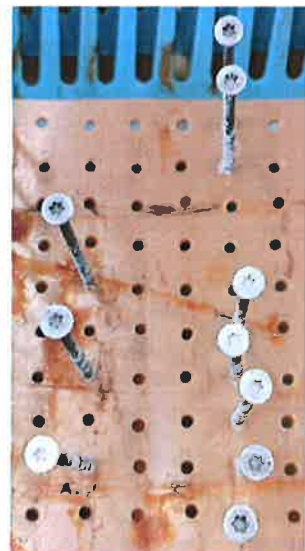
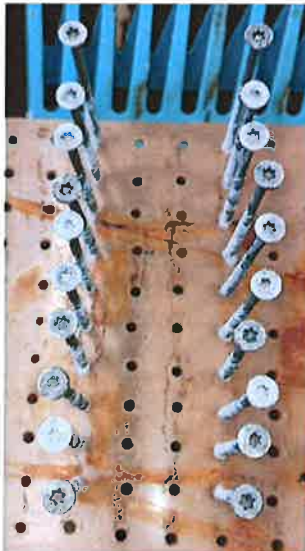
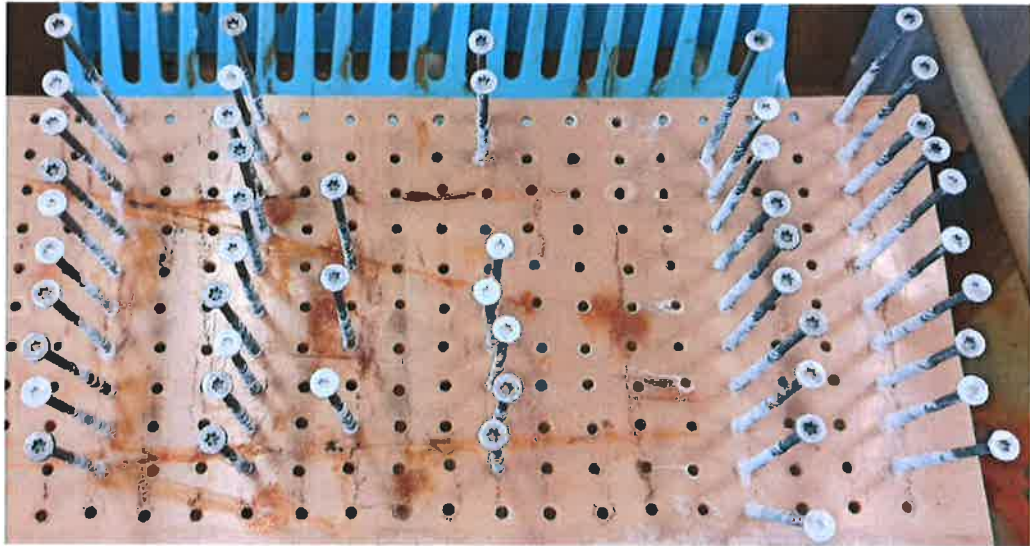


**After 4<sup>th</sup> week**

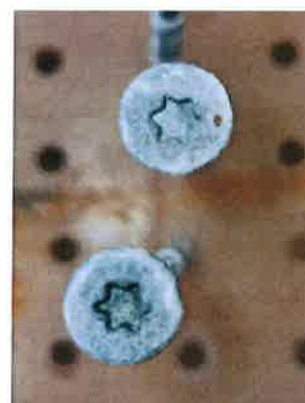
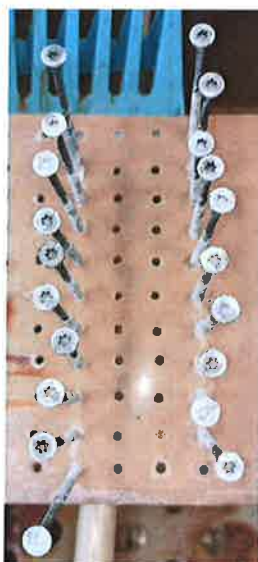
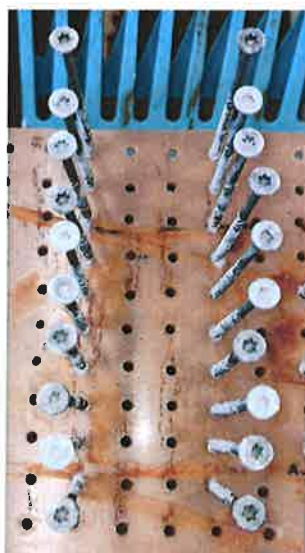
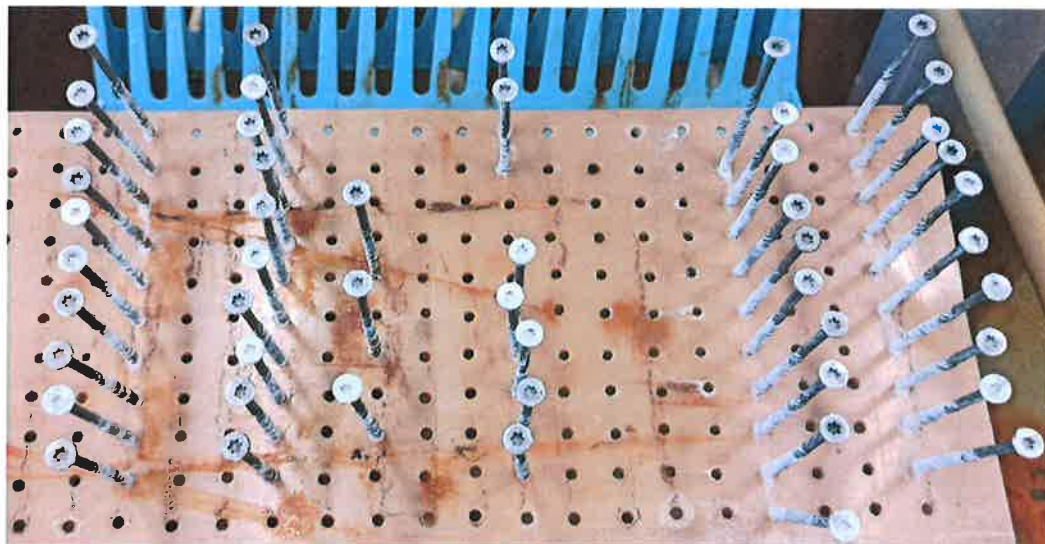




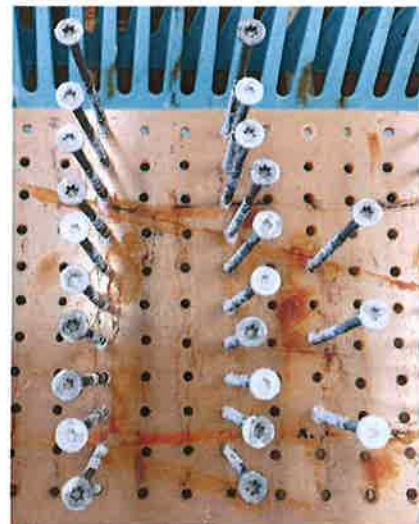
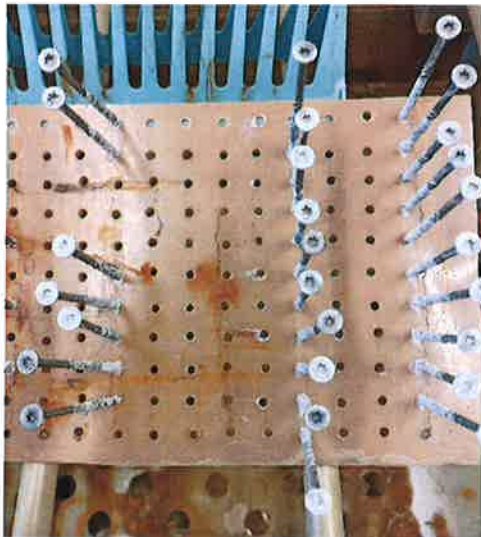
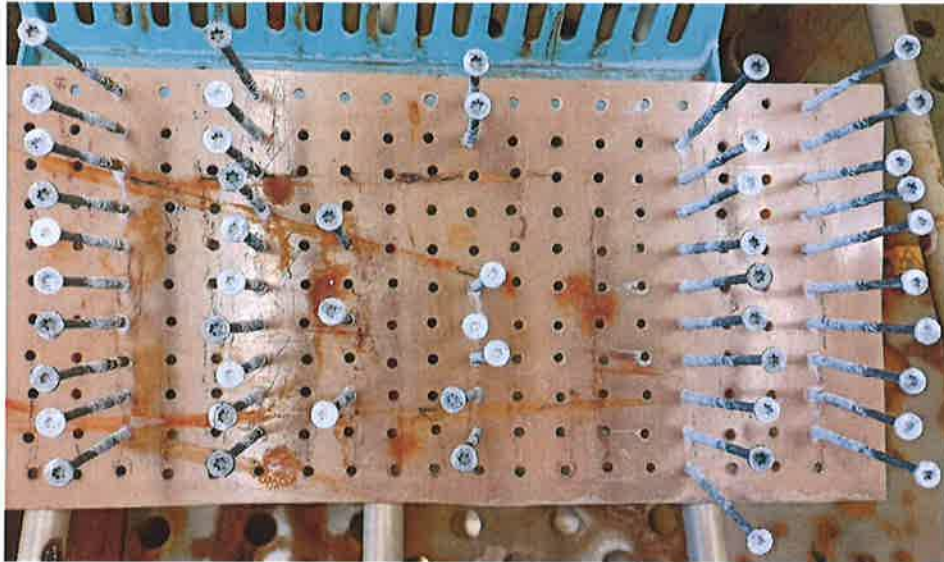
After 5<sup>th</sup> week



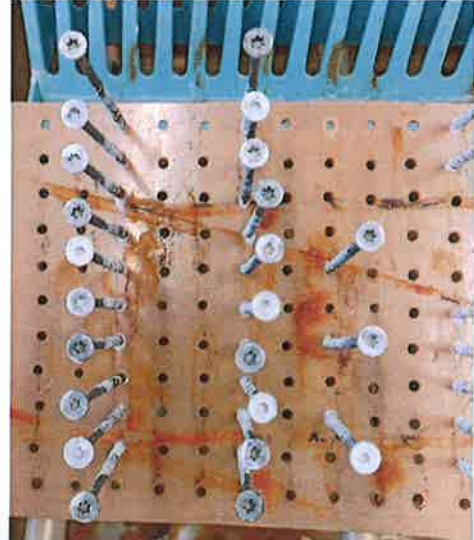
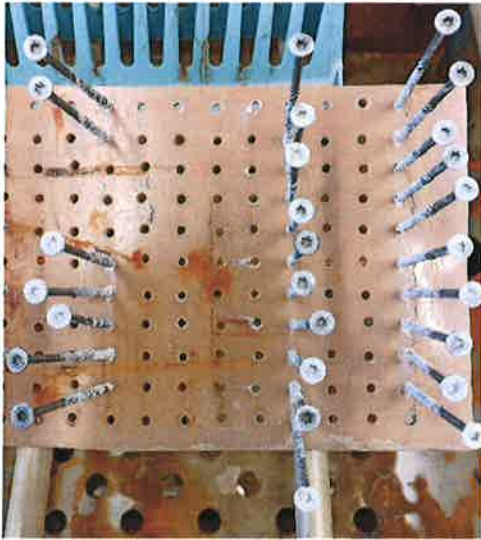
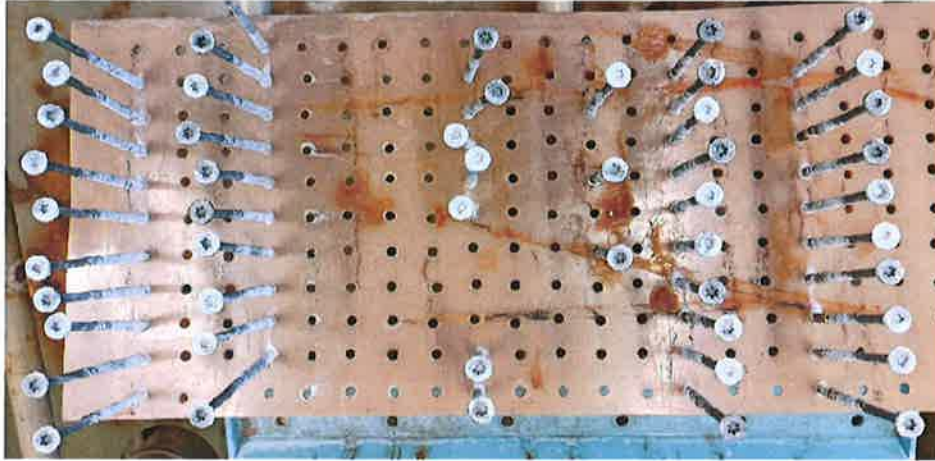
After 6<sup>th</sup> week



After 7<sup>th</sup> week



**After 8<sup>th</sup> week**



**After 9<sup>th</sup> week**

Exposition (weeks)	Sample	Appearance
1	50	- incipient white corrosion on heads (35 pcs) - white corrosion on heads (15 pcs)
2		- incipient white corrosion on heads (32 pcs) - white corrosion on heads (18 pcs)
3		- incipient white corrosion on heads (12 pcs) - white corrosion on heads (33 pcs) - red corrosion on 1 head (R <sub>p</sub> 7)
4		- incipient white corrosion on heads (10 pcs) - white corrosion on heads (40 pcs) - red corrosion on 1 head (R <sub>p</sub> 7)
5		- incipient white corrosion on heads (9 pcs) - white corrosion on heads (41 pcs) - red corrosion on 1 head (R <sub>p</sub> 7)
6		- incipient white corrosion on heads (6 pcs) - white corrosion on heads (44 pcs) - red corrosion on 1 head (R <sub>p</sub> 7)
7		- incipient white corrosion on heads (3 pcs) - white corrosion on heads (47 pcs) - red corrosion on 1 head (R <sub>p</sub> 7)
8		- incipient white corrosion on heads (1 pc) - white corrosion on heads (49 pcs) - red corrosion on 1 head (R <sub>p</sub> 7)
9		- incipient white corrosion on heads (1 pc) - white corrosion on heads (49 pcs) - red corrosion on 1 head (R <sub>p</sub> 7)

Remark: 2% of all samples show base material corrosion.

Evaluation: The test fulfills the requirements of the class **C4(15)** defined in EN 14592:2022

Tested by: Aneta Monika Kout

Date: 2024-06-25

Signed: 

Reviewed and approved by: Michal Štěpán

Date: 2024-06-25

Signed: 

## V. A list of referenced documents

- Order of 2024-04-15 (Order reg. no. J-82059, received on 2024-04-16)
- ČSN EN ISO 6270-2:2018 Paints and varnishes - Determination of resistance to humidity - Part 2: Condensation (in-cabinet exposure with heated water reservoir)
- ČSN EN ISO 9227:2023 Corrosion tests in artificial atmospheres - Salt spray tests

Test Report compiled by: Michal Štěpán

Test Report approved by: Aneta Monika Kout  
Fasteners and Construction Components Manager

– End of Test Report –

