Instruction for mechanical removal of scratches on glass

I. General Information

The instruction describes how to remove surface scratches and scuffs on glass.

Removal of scratches or scuffs should not be performed on the surface of glass on which there are functional coatings, such as self-cleaning (Pilkington Activ™), anti-condensation, reflection and others.

Removal of scratches can cause damage to the glass (cracking), or cause distortion of the image at the grinding point of the glass. Complete removal of deep scratches may not be possible.

Pilkington shall not be responsible for any loss associated with the removal of scratches or scuffs from the glass surface performed in accordance with this instruction.

II. Materials and tools needed

- Cerium-oxide polishing powder (or ready-made glass polishing paste that can be purchased at large home building or specialty stores),
- Glass polishing felt with drill pin,
- Driller with a rotational speed of 500-1200 rpm,
- Water, cleaning material,
- Protective gloves (according to EN 388, cut resistance D or higher), safety glasses (according to EN 166).

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REGON 006911139 NIP 123-00-06-857 Sąd Rejonowy w Kielcach X Wydział Gospodarczy Krajowego
Rejestru Sądowego KRS 0000012897 Indywidualny numer BDO 000003517
Kapitał zakładowy: 506 500 PLN
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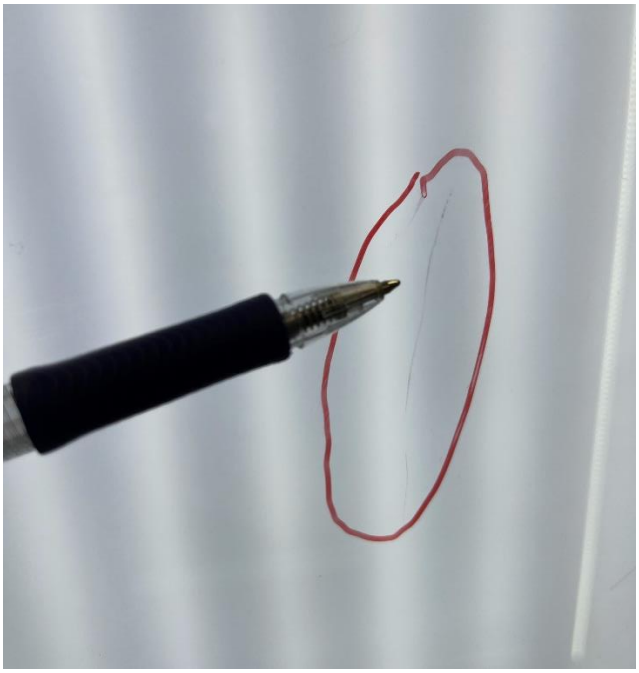
III. The process of scratch removing

1. On the opposite surface of the glass, mark the location of the damage with a marker. This will make sure that we are polishing in the right place



2. Place the glass in a vertical or horizontal position and secure it against movement. Clean the polished glass surface from dirt, dust and sand.

3. Mix cerium-oxide with water until a homogeneous paste is formed

4. Soak the felt slightly with water

5. Apply a small amount of cerium oxide paste to the glass in the area of the scratch

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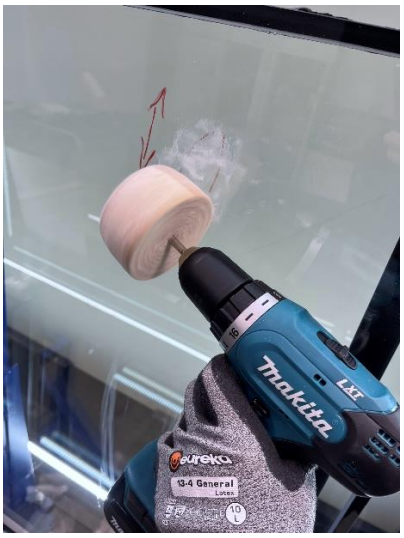
6. Polish the glass with the side surface of the felt, not pressing too hard on the glass. The driller speed should be approximately 700 rpm.

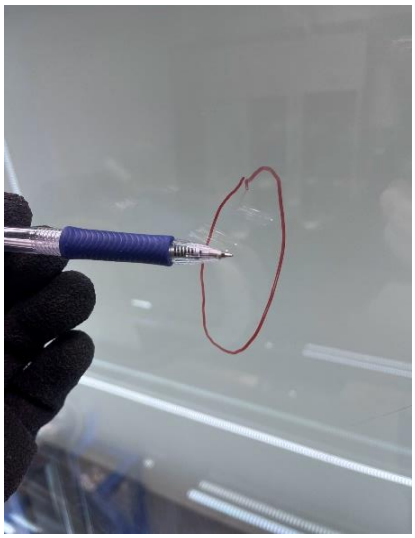
<u>Polish alternately:</u>
first polish along the scratch, then across the scratch

While polishing, wet the polished glass surface with water using a hand sprayer. If necessary, add a small amount of the prepared paste.



7. From time to time, clean the polished surface and assess whether the scratch has been removed.

After removing the defect, clean the glass with water and a cleaning material.



Note:

- long-term polishing of one point may cause a small depression in the glass, which can decrease the esthetic value of the glass,

- polishing should be done with breaks to avoid overheating the glass. Local heating of the glass may cause it to break.

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