



5 CLEANING

- Glass must be cleaned using clean water only
- Ammonia-based detergents or other aggressive cleaning agents must never be used
- **Be sure to dry all joints and edges thoroughly so that no cleaning agent comes in contact with the edges and back paint of glass**
(Moisture and chemicals will attack the back paint and that results in oxidation)



6 ADDITIONAL PROTECTION MEASURES

(especially for installation at sensitive locations eg. swimming pool, seaside, bathroom)

- Apply safety film at back of glass
- Use neutral cure sealant to seal up all gaps that may lead to water vapour penetrating into edge and back of mirror in future
- Use framing to cover mirror edges for long-term applications

SUMMARY

Every glazier wants a fuss-free installation and every customer wants his mirror to last as long as it can.

However, mirrors do not last a lifetime due to their delicate and sensitive properties. All mirrors have a natural tendency to corrode over time, especially at the edges, in the event of inadequate protection, improper handling or environmental factors.

Although copper-free mirrors can withstand corrosion better than traditional copper mirrors, care must still be taken in order to reduce deterioration and prolong lifespan of mirrors. It is the responsibility of installers and users to protect the glass edge and back paint against permanent moisture or harmful chemicals during handling and installation.

In general, most mirror manufacturers do not issue manufacturer's warranty for mirrors and painted glass especially after installation. We believe that by following our guidelines, the risks of defects will be minimized.

Disclaimer

The contents of this guide are based on our best knowledge and experience at the time of publication. Customers and glass glaziers can contact AGC sales team for further assistance if required. Conditions and circumstances will vary from case to case. It is the responsibility of the mirror installer to ensure that the installation and maintenance of the mirrors comply with all relevant local rules, laws, regulations, applicable standards and other requirements.



INSTALLATION AND HANDLING GUIDE

FOR MIRRORS AND PAINTED GLASSES



QUICK CHECKLIST BEFORE INSTALLATION

- Glass edges are well fabricated and protected
- Edge sealant used is neutral and compatible
- Compatible adhesive is used
- Bonding method is correct
- Mounting surface is properly treated (and waterproofed if necessary)
- Maintain an appropriate gap of 3-5mm between glass and mounting surface
- Ensure environment is free from conflicting or harmful chemicals

AGC

AGC FLAT GLASS ASIA PACIFIC PTE LTD
460 Alexandra Road #30-02 PSA Building Singapore 119963
Tel: +65 6273 5656 Fax: +65 6271 3817
Email: afap.enquiry@agc.com
www.agc-flatglass.sg

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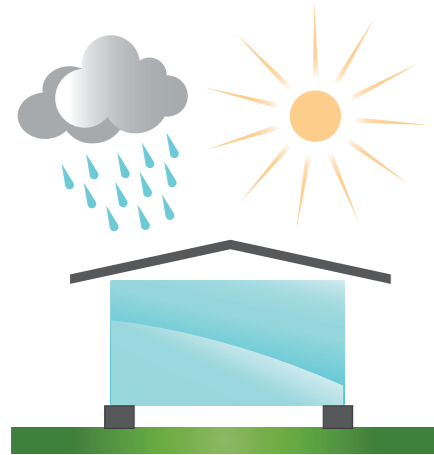
This guide sets out AGC's recommended installation and handling methods of mirrors and painted glass for glaziers.

Fitting a mirror is a delicate procedure. Incorrect handling or installation may lead to deterioration of mirror, which will eventually result in costly replacement and customer dissatisfaction.

Correct handling and installation are essential to ensure:

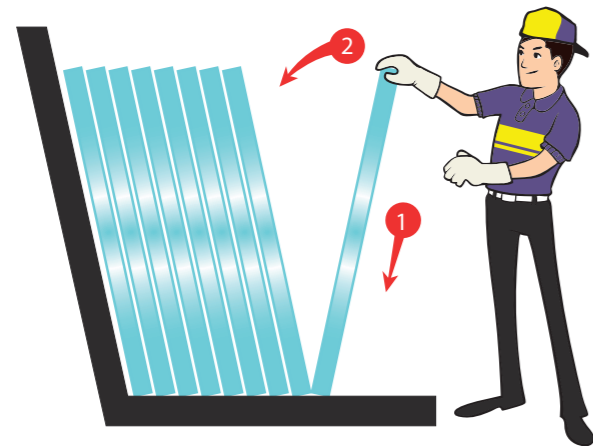
- Safety of glaziers and end-users
- Product durability

Note: In this brochure, glass refers to both Mirrors and Painted Glass

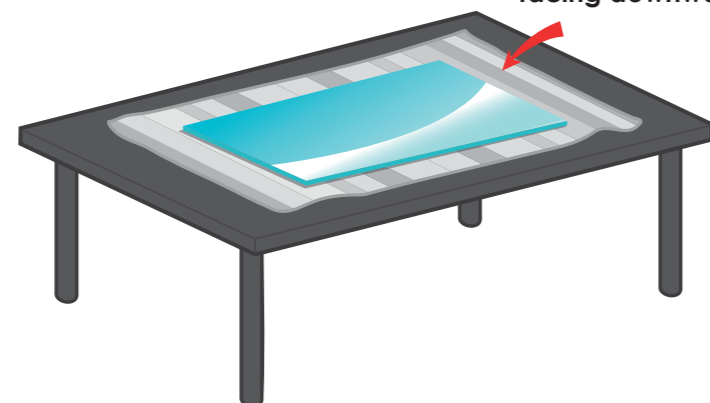


1 STORAGE

- **Dry storage** (to avoid condensation)
- Recommended storage time up to 6 months (subject to storage conditions)
- Proper stacking and removal



Cut glass with painted surface facing downwards

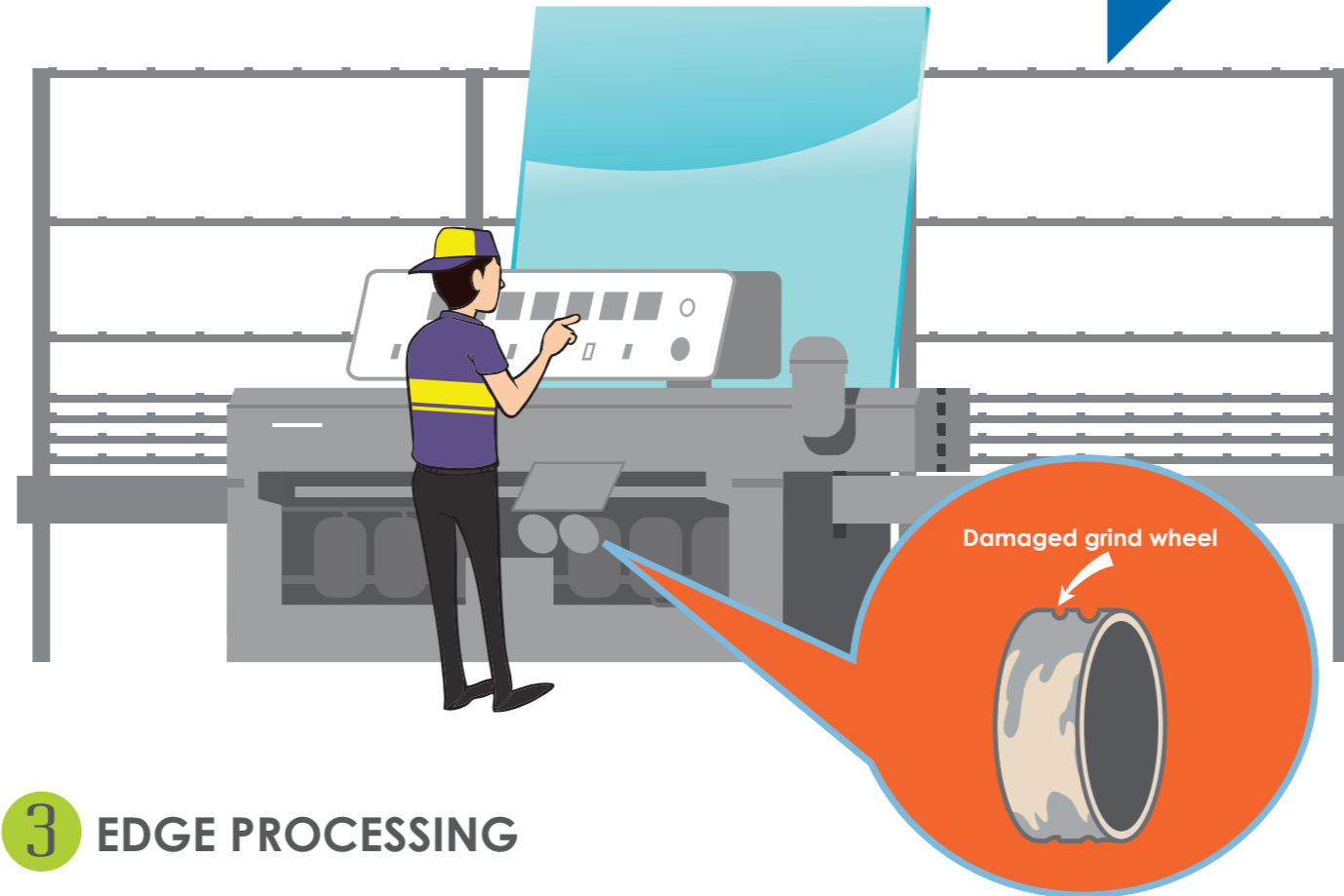


2 CUTTING

- **Clean cutting table regularly** (to avoid scratching the glass)
- Use neutral cutting oils only
- Always cut glass with painted surface facing downwards

The most vulnerable part of the mirror is the edge where the silver is exposed. Processed edges, such as those produced by grinding and polishing, are more prone to corrosion than clean cut edges.

Thus, it is important that extra care is taken during processing to maintain the integrity of the back and edges of glass.



3 EDGE PROCESSING

PLEASE ENSURE	IF NOT...
To adjust to appropriate machine speed	▶ Inappropriate speed will affect the condition of glass's back paint
To use a neutral coolant	▶ Acidic or alkaline coolant may corrode the silver from glass edge
To clean the coolant water circuit and replace coolant water regularly	▶ Coolant water may turn acidic/alkaline after excessive usage
Grinding wheel must always be in good condition and replaced before it wears out	▶ Damaged grind wheel may weaken back paint of glass
To clean glass with water and dry immediately after edge processing, especially around glass edges	▶ Moisture penetration may corrode silver from glass edge

** Additional protection measures can be taken (Please refer to back Pg 4)

4 INSTALLATION



4.1 MOUNTING SURFACE PREPARATION

- **Surface must be clean and dry**
- Apply water proofing sealant on surface if necessary
- Never install on new plaster, newly cured cement or newly painted wall

4.2 TYPE OF ADHESIVE / BONDING

- **Never use acid-based glues**
- **Alcoxy-based and oxime-based silicones may be used**
- Oxime silicones and double-sided adhesive tape are perfectly safe and suitable for use
- For list of recommended brands of adhesive, please contact your local distributor

4.3 APPLICATION OF ADHESIVE / BONDING

- Always follow the installation guidelines of adhesive suppliers
- Ensure adhesive used is compatible with back paint of glass and mounting surface
- **Apply adhesive (glue/tape) in vertical stripes, ensuring air can be circulated between the back of glass and the mounting surface**
- Apply regular pressure to the glass and the mounting surface area
- Always maintain a gap of about 3-5mm between glass and mounting surface to allow good ventilation



Apply adhesive (glue/tape) in vertical stripes

Disclaimer

AGC does not manufacture adhesive and thus cannot guarantee the effect and consistent performance of any adhesive on mirrors. The recommended list of adhesive brands are used at customer's own risk. Customers should conduct internal batch test to ensure consistent performance per required installation method. All manufacturers handling instructions should be strictly adhered.