



# CARDINAL IG

Product Development Group  
**Technical Service Bulletin**

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## **Glass Processing – Manufacturing History**

During manufacturing and processing, glass surfaces are exposed to a number of processes and materials, which can leave a residue on the glass surface. During the manufacturing of float glass, coated glass, tempered glass, and insulating glass, the glass surfaces are exposed to vacuum cups, rollers, and packaging materials (paper, cardboard, foam, cork, hot melt, etc.), glass production labels and the window manufacturer's labels.

These materials that come in contact with glass surfaces during glass processing, window fabrication and installation can leave a residue on the glass that is not visible under normal viewing conditions. These residues may become visible when moisture is present on glass (i.e. rain water, condensation, etc.) and is not considered to be a glass defect and glass should not be replaced because of this condition.

Cardinal's Technical Service Bulletin # 16 (Glass Cleaning Recommendations) reviews specific glass cleaning procedures, which should be followed. Following are excerpts from this TSB.

- Clean glass surfaces with a mild commercial window cleaning solution and procedure.
- Do not use scrapers, razor blades, or squeegees that have metal surfaces exposed that can scratch the glass.
- After cleaning glass with a standard window cleaning solution and the glass surface still has manufacturing history residue on it that can be seen when condensation occurs, a very mild abrasive has been successful in removing this type of residue. A mild abrasive such as Crest toothpaste, Soft Scrub, or a slurry of Cerium Oxide can be used. However, with any abrasive, care must be taken to not scratch the glass and to not cause distortion in the glass. Excessive scrubbing with mild abrasives can remove small areas of glass and cause distortion pockets in the glass. After cleaning with the mild abrasive, all abrasive material should be removed by then cleaning with a mild commercial cleaning solution.