I. About Quality Now!

Quality Assurance

A. Introduction

The production of superior quality insulating glass (IG) units is the result of using proper materials, equipment and procedures.

The purpose of Quality Now! is to provide users of PPG's Intercept® IG technology with a formal statement of known and generally accepted techniques and means successfully used and implemented by PPG and others in the industry to manufacture high quality insulating glass units. These procedures are based on PPG's current knowledge and understanding as of the date of this publication, and must be evaluated by each user for the appropriateness of its use in your particular insulating glass unit manufacturing operation.

Following are suggested material specifications, inspection and test requirements, and quality checklists to assist you in performing the procedures which we believe are critical to IG unit finished quality.

In addition to these procedures and those you independently determine are also necessary, you should obtain from each of your material suppliers their written recommendations for testing and quality control of their specific products, and you should make those recommendations part of your overall quality assurance program.

If this program becomes an active part of your insulating glass manufacturing operation, we believe it will establish at least minimum requirements for your in-plant quality control.

B. Intercept® Insulating Glass Quality

If you produce Intercept® Insulating Glass with the following characteristics, we believe you will have produced high-quality insulating glass as viewed by PPG, your customer, and by the industry as a whole:

- Meets or exceeds the minimum standards for Intercept® IG construction as set forth in this publication.
- Conforms to the specifications and performance requirements established by the customer.
- Can pass ASTM E-773/774 CBA performance testing in either single or dual seal configurations.

Conforms to the following specific items:

1. Size and thickness are within allowable tolerance.
2. Squareness, flatness, and glass alignment are within allowable tolerance.
3. Contains the proper spacer type, size, and shape.
4. Is properly and thoroughly sealed.
5. Has the proper gas fill level with complete seal of the gas fill hole.
6. Contains clean glass of the specified type and quality.
7. If coated glass is used, has coating on the correct surface and any coating flaws are within allowable tolerance.
8. Edge deletion, if required, is complete and thorough.
9. Has the proper quantity of active desiccant.
10. Desiccant is properly applied and well adhered to the spacer.
11. Spacer is completely covered with sealant.
12. Corners are completely filled with sealant.
13. Spacer alignment is within the allowable tolerances and no spacer extends past the unit edges.
14. Muntin bars and clips fit properly, and are in the proper location, with no damage.
15. Spacers are not in contact with the glass.
16. Spacer corners are formed and sealed properly.
17. Sightline is within allowable tolerance.

C. Use Of This Manual

1. This document is based on PPG's experience in insulating glass and knowledge learned from others related to its view of the manufacturing and quality standards needed for the satisfactory production of an insulating glass unit using PPG technology for a warm edge unit.
2. This document is provided for consideration by each manufacturer for use in its own processes, but should only be used after appropriate evaluation and review. It is the manufacturer's responsibility to ascertain whether all or any of such information can be used in its processes to fabricate a marketable insulating glass unit meeting all of its product requirements.
3. PPG makes no guarantee as to the results to be obtained from the use of all or any portion of this document by the manufacturer, and hereby disclaims any liability for personal injury, property damage or product insufficiency arising from the manufacturer's use of the information contained herein.