

How to produce the highest quality laminate and IG units

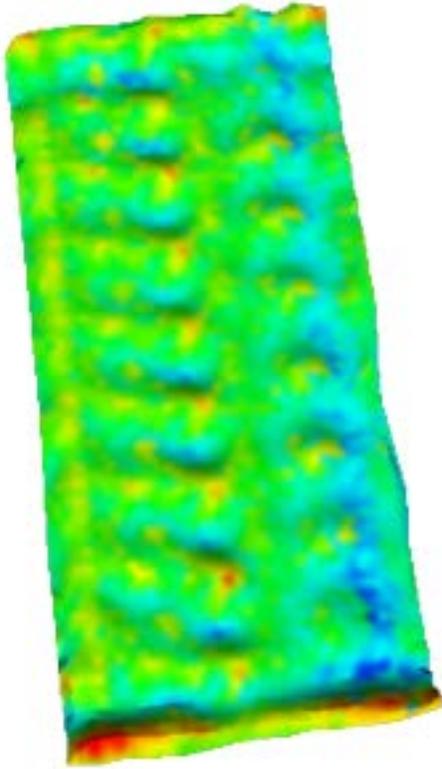
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You are called to a job site of a recently completed high profile project. When you arrive the architect and building owner are visibly upset. The quality of the laminate or IG units you tempered and produced is unacceptable. You won the project, and your clients paid a premium because you promised you will deliver the highest quality product. You ensured them this would not happen. Now, your clients want answers, and they want you to fix the problem - at your expense. How could this have happened? You completed all the traditional quality tests as promised. You checked for roller wave and edge kink frequently. You explain this to your clients though they show this, and many more like it.



How could this have happened and how could you have prevented it?



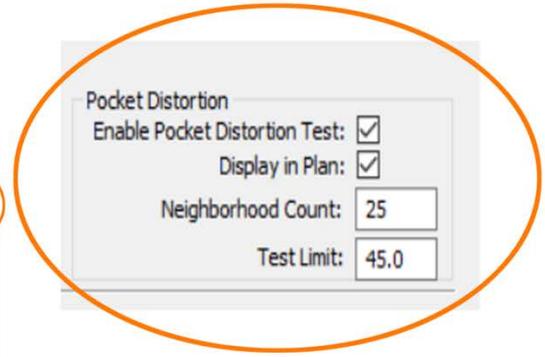
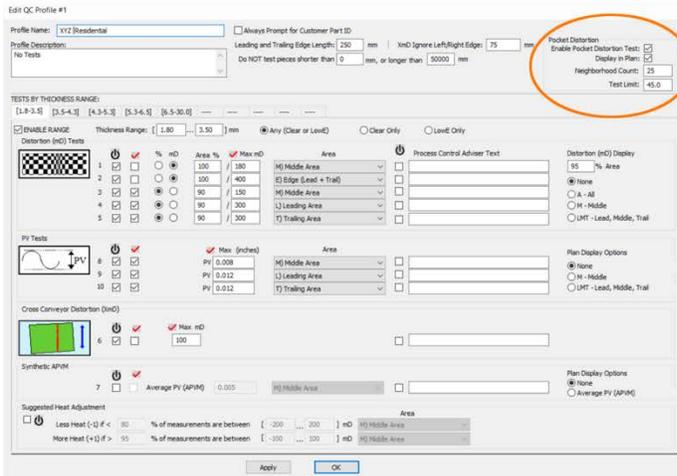
The challenge that you encountered is that roller wave inspection measures only “well-behaved” 1-dimension distortion in the direction of travel. Pocket Distortion aka Hammer, shimmer, is 2-dimension distortion and not “well-behaved” as seen in the image to right.

This ill-behaved distortion will cause a number of challenges if value is added to the glass piece after the tempering process. Increased rejection, lost production, and lost revenue in downstream fabrication i.e. IG and lamination are all problems you will encounter. This will inevitably lead to

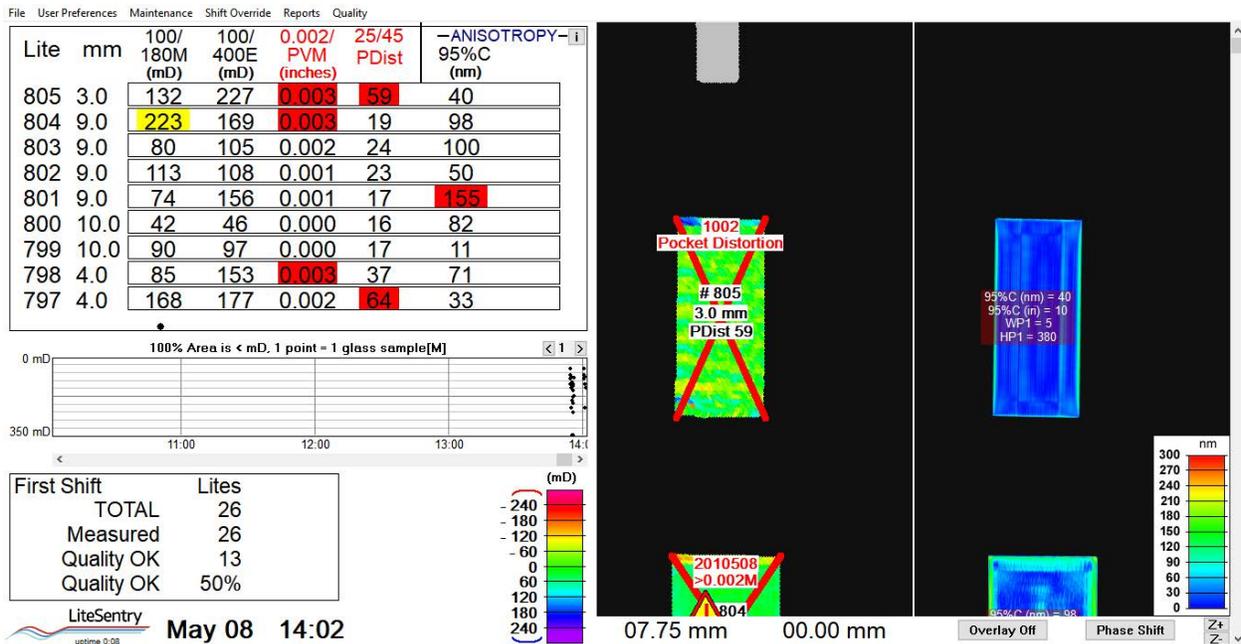
you producing lower quality products which will result in a decreased perception of your products and company.

The solution is to test for ALL types of distortion, including 2-dimensional pocket distortion in real-time after the tempering process. Detecting pocket distortion in glass immediately after the tempering process reduces waste in downstream processes and reduces product returns. This process control leads to improved tempering, lamination, and IG yields.

Osprey 9 uses a proprietary analysis tool - Geometric Segment Analysis - to measure and grade visually objectionable distortion patterns. Pocket Distortion thresholds are adjustable in Test Definitions of the Osprey 9.



With the Pocket Distortion Test Definitions enabled the Osprey 9 displays a LARGE RED X to the furnace operator pieces that do not meet the specifications. This prevents the pieces from continuing downstream. Below is the Osprey 9 Complete interface with glass piece # 805 failing the Pocket Distortion Test.



Pocket distortion detection is standard with Osprey 9 Distortion and Osprey 9 Complete Inspection Systems. It is available on Osprey 6 or greater with the purchase of a software update.

Do you have any questions or suggestions? Want to know more about real-time on-line inspection? Contact us at <https://litesentry.com/globalcontact/>