

# Quality Guidelines

## for glass, foils and laminating

### MECHANICAL DAMAGE OR SURFACE STAINS:

The number of possible defects specified here applies to displays **up to a size of 40"**:

Possible defects may be bubbles, scratches or material inclusions.

They must not exceed the following dimensions:

- BUBBLES: diameter [D]  $\leq 1.0$  mm, maximum number [N]  $\leq 4$
- SCRATCHES: length [L]  $\leq 10$  mm, width [W]  $\leq 0.15$  mm, maximum number [N]  $\leq 4$
- INCLUSIONS: are judged as bubbles, maximum number [N]  $\leq 4$
- STAINS: e.g. with chemically treated anti-glare glass max.  $0.5 \times 1.5$  cm, max. number of [N]  $\leq 4$

The total number [T] of all damage – i.e. bubbles, scratches and inclusions - on a panel up to a size of 40" may not exceed 4 in total.

**There must be no damage, other or greater than specified here.**

### SPECIFICATIONS FOR MORE LCD SIZES:

With larger touch panels, more inclusions are possible due to the manufacturing process.

Taken this fact into account, the following limits result:

- |   |             |
|---|-------------|
| • Total number [G] of permissible errors on a panel <b>up to 40"</b> :        | $G \leq 4$  |
| • Total number [G] of permissible errors on a panel <b>up to 55"</b> :        | $G \leq 5$  |
| • Total number [G] of permissible errors on a panel <b>from 56" to 65"</b> :  | $G \leq 7$  |
| • Total number [G] of permissible errors on a panel <b>from 66" to 70"</b> :  | $G \leq 8$  |
| • Total number [G] of permissible errors on a panel <b>from 71" to 82"</b> :  | $G \leq 11$ |
| • Total number [G] of permissible errors on a panel <b>greater than 82"</b> : | $G \leq 13$ |

### PLEASE NOTE:

We assume no liability for quality defects on glass, which has been delivered to us. If no heat-soak test was carried out on the SPG, the customer bears the cost of spontaneous glass breakage.

For any lamination, which is not carried out in the clean room at Interactive Displays, the above specifications for inclusions do not apply. For on-site work, we do not assume liability for any inclusions in the finished panel!