In general, when manufacturing laminate composite elements, tension equalisation must be ensured with a suitable balancer. In this context, we may also speak of a symmetrical structure of the composite element, i.e., the use of identical laminate on the front and reverse side.

An asymmetrical structure generally leads to the element’s warpage or insufficient flatness, and thus the production of asymmetrical composite elements remains the fabricator's responsibility.

In addition to the balancer used, flatness is also influenced by other criteria:

- Type of core board (chipboard, MDF, plywood board, etc.)
- Core board thickness
- Wood moisture content
- Amount of glue applied
- Size of component
- Press temperature
- Different production direction on the front and the back side of the laminate. The production direction can be recognised by the finish of the laminate back side

After the pressing, it is important to ensure proper handling and cooling of the composite boards. The core board thickness and the type of core board represent relevant criteria and the general rule is the thicker the board the less problematic.

Using a laminate balancer with the same nominal thickness is generally appropriate. It is, however, recommended to verify the selection of a suitable balancer through pre-testing prior to producing the element.

Frequent causes of warpage include:

- Very thin core boards
- Large size of the laminate bonded board
- Lack of reinforcement or fastening of the composite board
- Different production direction on the front and the back side of the laminate. The production direction can be recognised by the finish of the laminate back side

The laminate offer of the EGGER Decorative Collection includes different laminate qualities and/or variants in the nominal thickness 0.80 mm. A White balancer labelled GZW can be used for making laminate composite boards based on chipboard and MDF core boards ≥ 18 mm thick. GZW in the nominal thickness 0.80 mm is a component of the EGGER Decorative Collection and is available from stock and from one item in line with country-specific delivery lists.

Alternative and/or thinner core boards require their own preliminary tests.