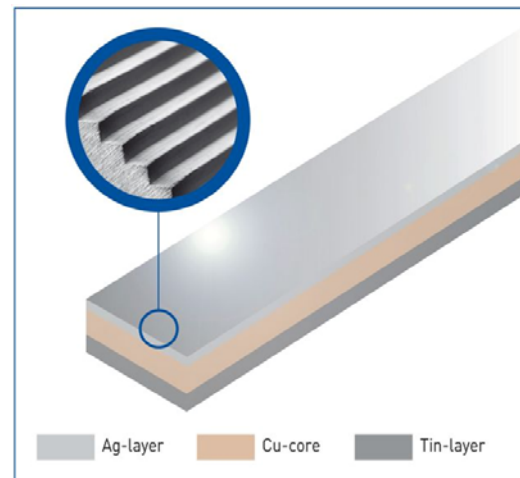
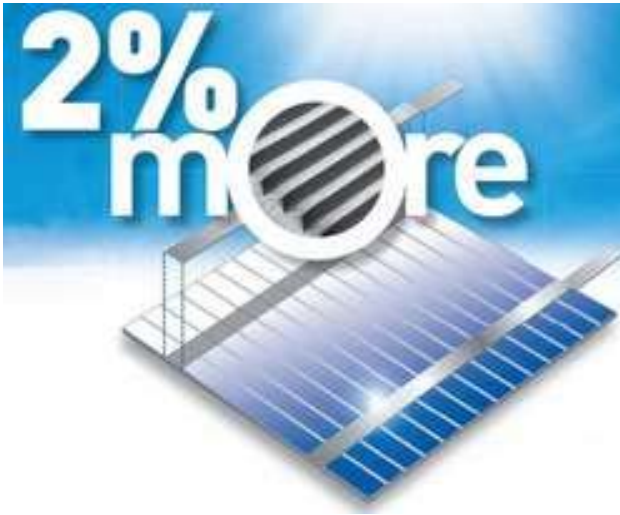


→ Product

LHS is a roll-clad copper strip with silver on the top side and tin on the reverse side. There are grooves precisely embossed length-wise into the silvered side. Much as conventional wires used today, LHS connects the top and back sides of adjoining cells.



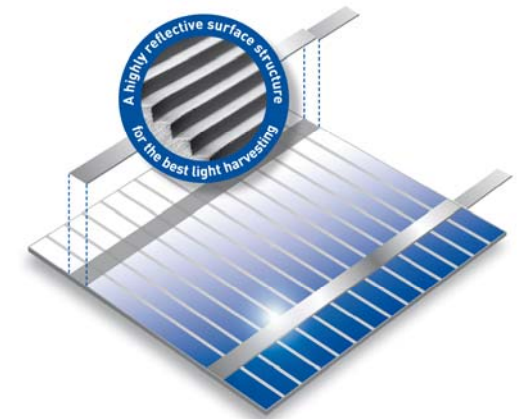
Process

In principle the contacting method does not have to be changed.

Instead of changing the cell design, LHS requires only small modifications to existing tabber/stringer equipment.

→ Potential

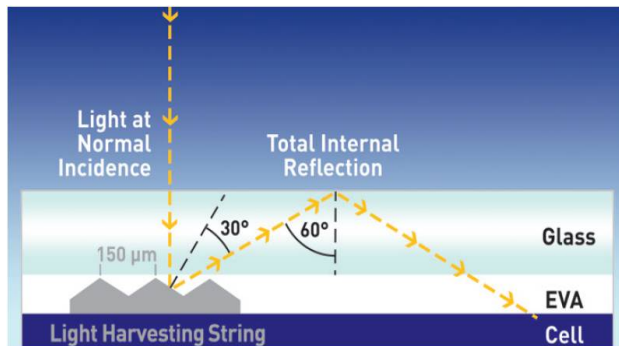
The usage of thinner, larger cells with higher performance leads to narrower and thicker connectors, which makes contacting more difficult and increases the potential risks of cell breakage. LHS allows the use of wider and thinner connectors without performance loss due to shading. Thinner connectors have a positive impact on cell-breakage.



→ Function

The grooves in the surface of the strip reflect the incoming light back towards the glass/air interface resulting in a total reflection of light which is thrown back onto the surface of the cell.

Consequently the light “captured” within the module can be used to generate additional electricity.



→ Performance

Conventional ribbons block sunlight by covering active cell area.

Up to 80% of this blocked sunlight can be regained by using LHS.

The structured surface of the silver clad strip allows sunlight to be reflected in a precisely defined angle, **which will lead to an efficiency gain of up to 2 %.**

→ Summary

- module efficiency increased up to 2 % depending on module / cell configuration
- conventional production processes can be retained
- LHS is a cost effective alternative to all backside contact solutions, as existing cell design remains unchanged
- only simple and small-scale change to existing processing equipment required
- value of existing investments and the well-known cell technology is maintained
- available in all current sizes, tinning specs and coil designs

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