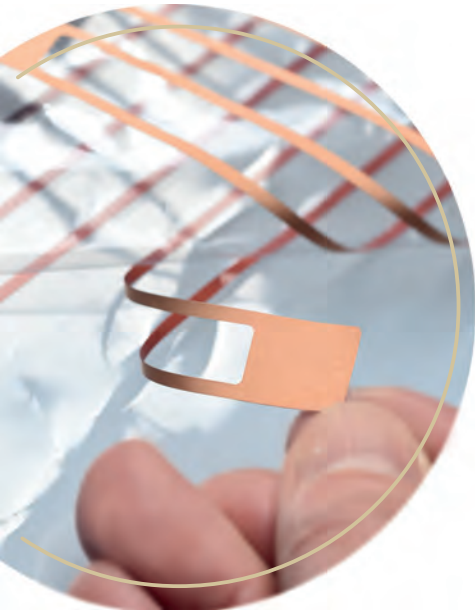


Halia™ Warmed HPL

Halia™ Radiant Warming Technology by The Warming Surfaces Company

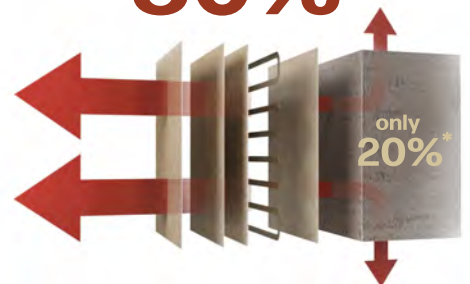


Warmth When & Where You Need It™

Halia™ is an affordable and sustainable way to bring heat to living environments, significantly reducing the consumption of energy and resources. Based on paper-thin radiant heater structures, Halia™ integrates heating directly into surface materials such as HPL or CPL. Operating on low DC voltage, makes it safe and allows less restricted installations for various applications.

Fast response Halia™ digital warmers are active pixelated areas and can quickly adjust to desired temperature levels. Ultimately this will enable patent pending individual microclimates to the varying needs and preferences of the inhabitants.

Up to **80%***



Halia Directional Radiant Control™

(*) Up to 80/20 ratio means the usage of the electrically generated heat energy of the panel. 80/20 ration can be achieved only using optimized materials together with Halia™ controlling

Technical Specifications

Voltage	0 - 110 VDC (heating element) 230 VAC
Max output power*	600 W (150 W per pixel)
Convenient areal power**	70 W / m ²
Dimensions	320 x 220 mm (one pixel)
Element material	Cu, CuZn or Al foil
User interface	Web browser based API / Open protocols
Max number of units	128 x warming pixels (per single interface unit)

(*) Power depends on voltage supplied from transformer.
(**) Convenient power here can be considered as the power level needed for a pleasant and comfortable warmth.

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Patents and patents pending
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