

#GREENGRIDZ INDUSTRIAL

Lighweight circular furniture construction panel,
designed for the circular economy.



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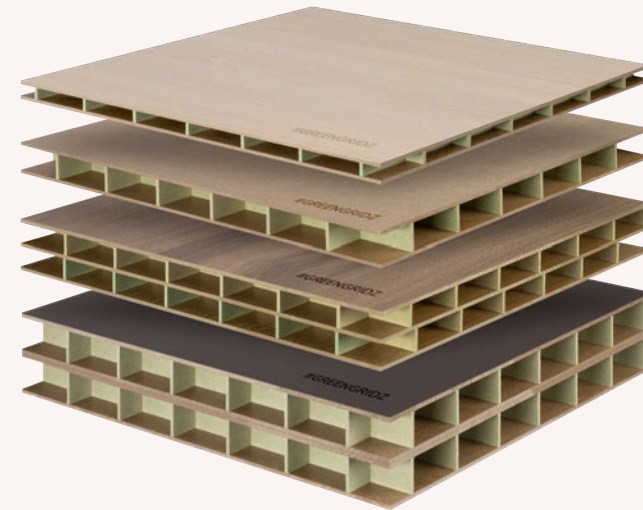
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Every year we throw
away 11,000,000,000
kilos* of furniture in
Europe.

90% of which is burned.



Wouldn't it be nice to make stronger &
lighter furniture whilst also using less
material and emitting much less CO₂?



...and if the raw materials could be
used again?

* Source: Circular economy in the furniture industry: overview of current challenges
and competences needs, FURN360

Greengridz® Industrial.

For furniture and interior manufacturers looking to produce efficiently and on an industrial scale, lightweight Greengridz® furniture panels supplied in bulk offer the ideal solution. They make it possible to create stronger, lighter and circular furniture without compromising on quality or reliability.

Our panels are supplied unfinished or laminated, in lengths of up to 5,180 mm, with just-in-time logistics tailored to automated production processes.

By adopting Greengridz® circular furniture panels worldwide, the furniture industry could reduce material use, CO₂ emissions and waste by billions of kilograms each year. Together, we can manufacture more efficiently while making a concrete and measurable contribution to the circular economy.

Let's build lighter, stronger furniture together.

Why choose Greengridz®?

- # 60 to 90% less material
- # 60% lower CO₂ footprint
- # 100% circular
- # Innovative, patented, lightweight grid
- # Super strong and does not warp
- # Long tabletops made out of one piece up to 5m in length
- # 125 different finishes
- # 15-year warranty

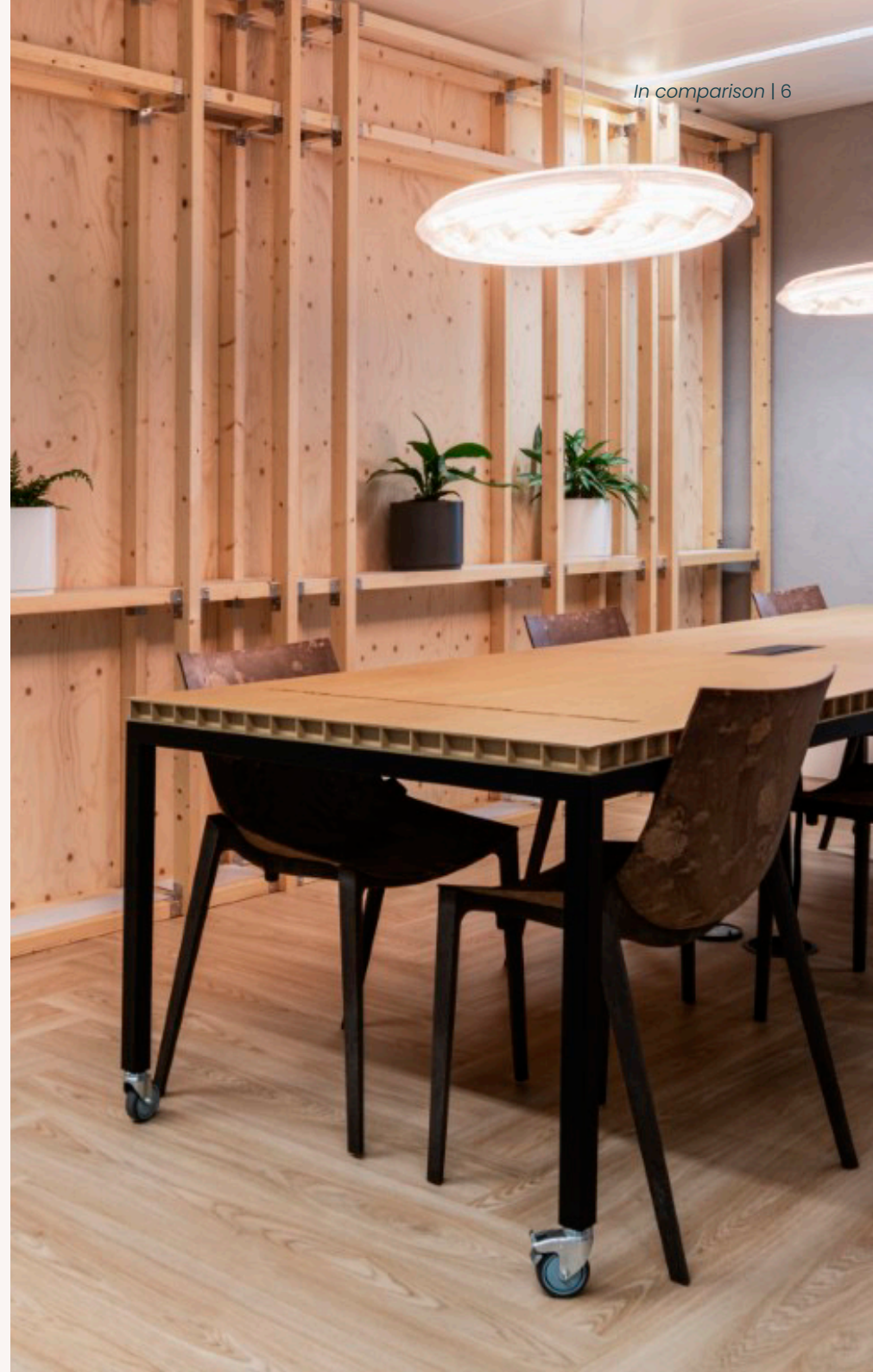
That's why you choose Greengridz® !

In comparison.

Carrier comparison	Greengridz [®]	Multiplex	Chipboard
Lightweight	###	##	#
Impact resistance	###	##	#
Moisure resistance	###	##	#
Recyclability	###	##	##
Low Co ₂ impact	###	#	#
Installation friendly	###	##	##

Stronger and lighter than the rest:

Greengridz[®] outperforms heavy solid panels when it comes to key indicators.



Did you know?

A lightweight Greengridz® desk or tabletop measuring 1600 × 800 × 25 mm saves 30 kg of CO₂ emissions compared with a heavy solid tabletop.

That is equivalent to:



73 lattes



2 new smartphones



9 cotton t-shirts



7 sirloin steaks

CO₂ Emissions Calculator

Discover how many CO₂ emissions you can save by switching to Greengridz® desk-and table tops from TRIBOO.



[Try it here](#)

Greengridz[®] = 50% less mileage, fuel and CO₂



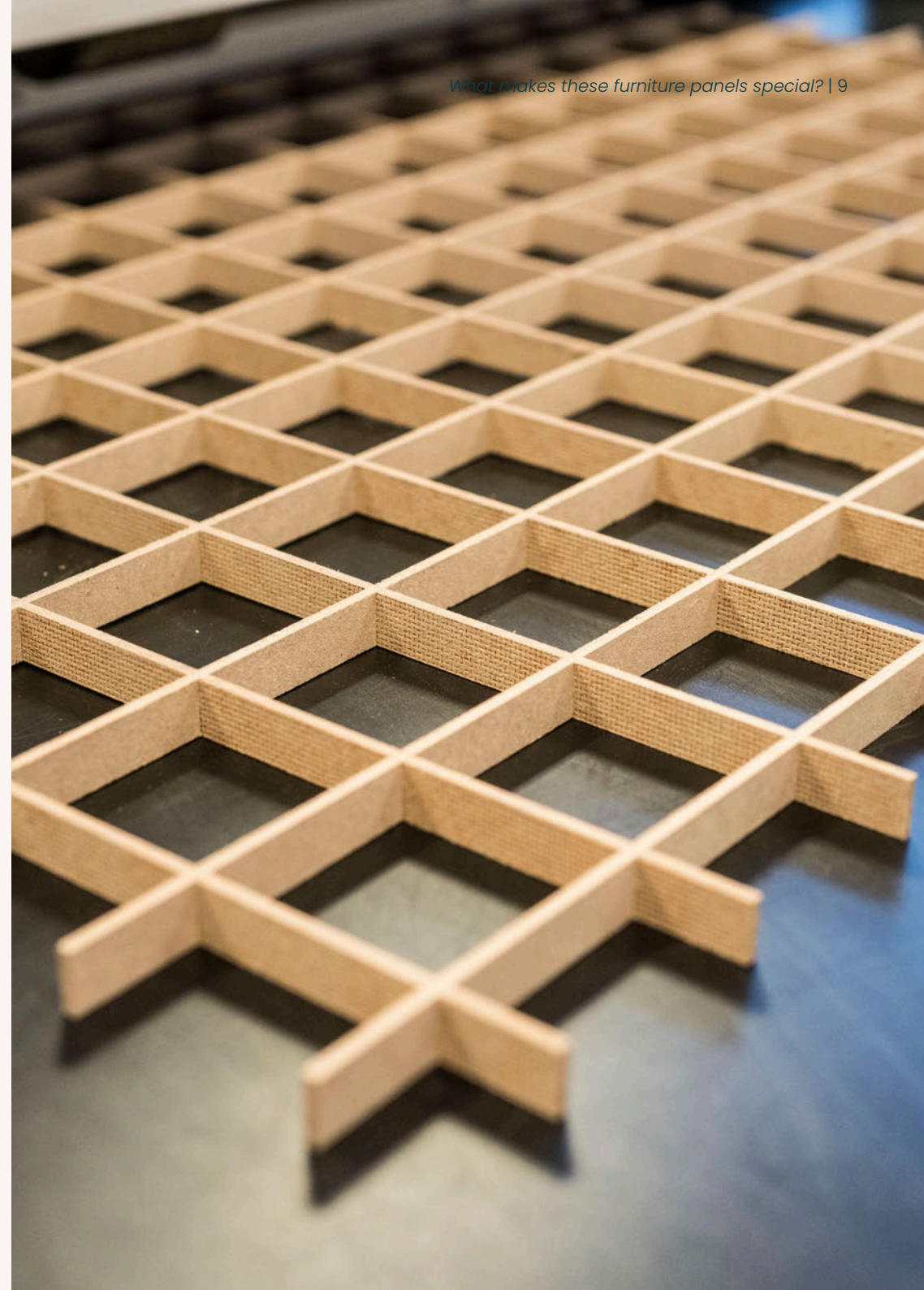
The lightweight of Greengridz[®] means 50% more volume can be transported. In practice, this means only one truck goes on the road instead of two.

What makes these furniture panels special?

Less material, lower CO₂ emissions and less waste. These are the circular design principles behind Greengridz® Industrial lightweight furniture panels.

The base material can be fully customised in shape, size and finish. The panels are produced locally and have a carbon footprint that is 60% lower than that of heavy, solid furniture panels made from chipboard, MDF or plywood.

With an Environmental Cost Indicator (ECI) score of €2.31, Greengridz® sets a new standard for circularity and outperforms traditional panel materials.



Environmental Cost Indicator

 ENVIRONMENTAL COST INDICATOR (€ per m ²)			 MATERIAL USE (kg per m ²)			 CO ₂ EMISSIONS (kg per m ²)		
Greengridz		€ 2,31	Greengridz		5,56 kg	Greengridz		9,34 kg
Chipboard		€ 3,64	Chipboard		15 kg	Chipboard		17,14 kg
Multiplex		€ 7,01	Multiplex		11,16 kg	Multiplex		23,67 kg

The Environmental Cost Indicator (ECI) expresses the total environmental impact of a product as a single monetary value (€), based on its entire life cycle. It is derived from Life Cycle Assessment (LCA), which evaluates impacts from raw material extraction through production, use, and disposal.

Designed for the circular economy.

At the end of their useful life, Greengridz® Industrial furniture panels can be returned to TRIBOO. They are then converted through pyrolysis into carbon for use in water and air filters.



Certifications & Labels.



ECI



LCA

You can make anything with Greengridz®

The lightweight furniture panels can be engineered for virtually any application. The ribs, supports, top and bottom layers can be produced in different thicknesses, heights, spacings and patterns. Enhanced moisture resistance and fire-retardant options are also available.

Greengridz® can be used for desk and table surfaces, kitchen worktops, acoustic panels, cabinets, doors, furniture, phone booths, meeting pods, wall systems and flooring.



You can make anything with Greengridz® | 13





Greengridz® Industrial Furniture Panels: Technically Versatile and Ready to Use

The Greengridz® Industrial furniture panel is available as an unfinished structural substrate or as an industrially pre-laminated panel with a high-quality HPL surface. This flexibility makes it suitable for both further processing and direct integration into production processes.

The panels are available as standard with HPL finishes from brands such as Pfleiderer, Arpa Fenix Bloom and Egger. More than 125 variants are available from stock, ranging from solid colours to intricate decors and realistic woodgrains. The HPL surfaces offer excellent resistance to wear, scratches and chemicals, resulting in a durable, low-maintenance finish.

By combining structural stability with a high-quality surface finish, Greengridz® provides a reliable solution for interior construction, furniture manufacturing and contract furnishing.

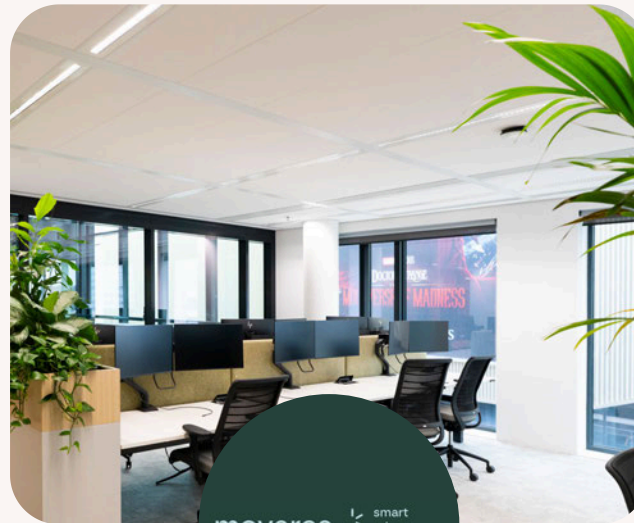


A selection of Greengridz® projects.



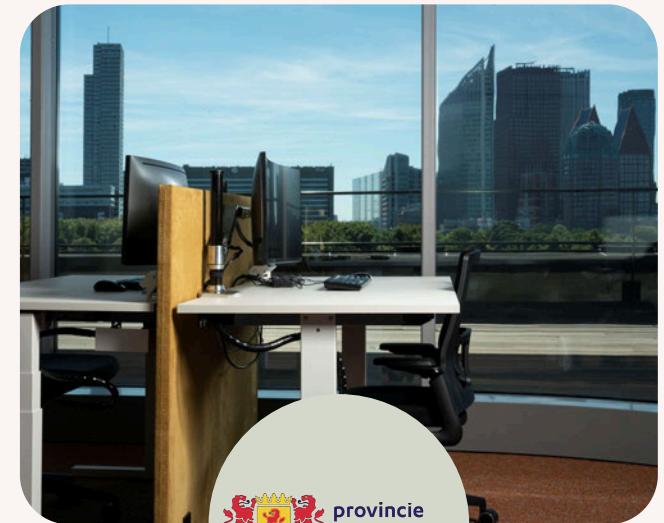
The Royal Flora Holland Office was furnished with 400 Greengridz® tables.

[Read more](#)



Movares chose Greengridz® desktops on 1.000 workstations and additional tables "As A Service" for a 10 year period.

[Read more](#)



Province of South Holland saved 2.737 kilo of material on 140 workplaces using reused desk frames with Greengridz® desktops and 9 oval meeting room tables of 4 meter 60 in length.

[Read more](#)

Awards.

- 2023 CSU Smart Solution of the Year Award
- 2020 Koning Willem I Foundation Nomination for Top 12 Most Sustainable Companies in the Netherlands
- 2020-2021 European Commission – Rising Star – European Business Award for the Environment CSR Foundation
- 2020 Greengridz® in the durable Hall of Fame of the MVO Foundation
- 2015 National Innovation and Sustainability Award for the Interior
- 2015 Greengridz® received the National Innovation and Sustainability Prize for Housing from Voorlichtingsbureau Wonen.

Developments.

The raw material from one piece of furniture becomes raw material for another piece of furniture.

To ensure that valuable resources are never lost again, the lightweight Greengridz® furniture construction panel is continuously innovating. The aim is to develop a reusable, lightweight core material whose fibres incorporated into the panels can be reused again as raw material to make Greengridz® panels.

To achieve this, we are building and testing diverse circular materials such as paper, cardboard, hemp and natural fibres extracted from milk carton waste streams. In addition, experiments are conducted with pioneering binding techniques and finishes. This is ultimately to ensure that the raw materials incorporated in finished Greengridz® panels and furniture can be returned in parts to the producers of the raw materials.



Want to see more
Greengridz developments?

[Explore them here.](#)

Greengridz® Industrial Specifications

Structure	Top layers 3 and 4 mm
Grid	c.t.c. 60mm
Thickness	20-100mm
Dimensions	3660 x 810 mm 4100 x 600 mm 4100x1210mm 4100x1220mm 5810 x 600 mm 5810 x 1210 mm 5810 x 1220 mm

Technical Specifications

Test	Property	Axis								Units
	Thickness		25	27	30	40	50	60	80	mm
EN 319	Internal Bond					0.22				
EN 310	Modulus of Rupture	Major	12.9	11.1	11.1	8.1	7.0	6.2	2.6	N/mm ²
		Minor	15.3	12.0	13.0	11.7	8.1	7.3	5.8	N/mm ²
EN 310	Modulus of Elasticity	Major	3453	3361	3147	2417	2302	1957	1297	N/mm ²
		Minor	3120	2973	2868	2430	2054	1789	1240	N/mm ²
EN 317	Thickness Swelling (24 hrs)					1.4%				%
EN 324-1	Thickness Tolerance					approx. 0.15				mm
EN 323	Determination of Density*		411	384	353	282	241	213	165	kg/m ³
	Weight		10.3	10.4	10.6	11.3	12.1	12.8	13.2	kg/m ³

Technical Specifications

Test	Property									Units
	Thickness	25	27	30	40	50	60	80		mm
EN 320 (with HPL)	Determination of resistance to axial withdrawal of screws				1081					N
EN 311	Surface Tension				0.8					N/mm2
EN 322	Moisture				>150					%
EN 382	Surface Absorption				7+/-3					mm
ISO 3340	Silica Contents				0.05					kg/m3
EN 120	Formaldehyde Content				Class E1					N

#GREENGRIDZ INDUSTRIAL

We don't sell furniture, we solve problems.

Let's get moving together.

Our professional team is ready to support you with expert advice, circular expertise, and a hands-on approach. Together, we design your project using fewer materials, less CO₂ emissions, and less waste. Build with us toward a future without waste and make the circular economy visible to everyone in your space.

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