

#GREENGRIDZ

Lightweight desk- and tabletops
designed for a circular economy.



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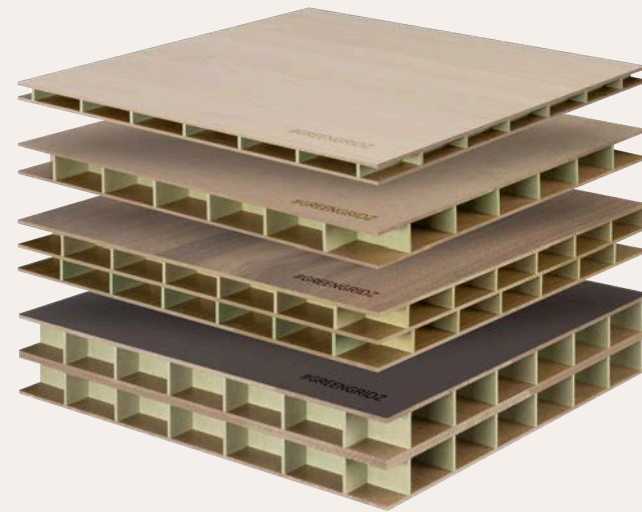
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Every year we throw away 11,000,000,000 kilos* of furniture in Europe.

90% of which is burned.

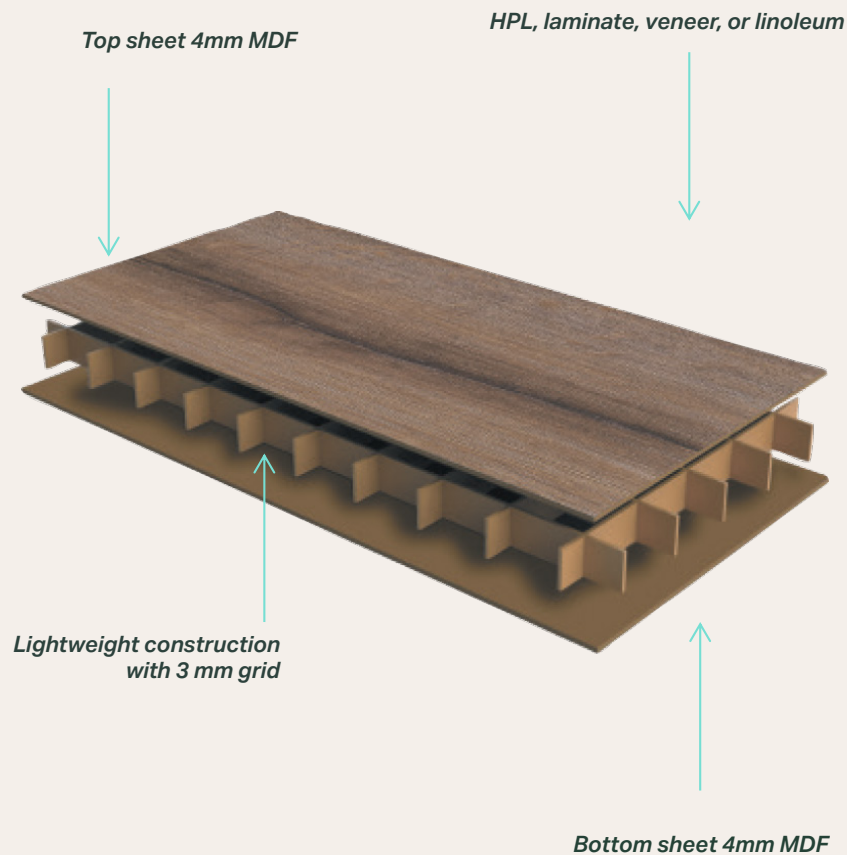


Wouldn't it be nice to make stronger & lighter furniture whilst also using less material and emitting much less CO₂?



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

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



Introducing Greengridz®.

Greengridz® is an innovative circular furniture construction panel. The panel is a basic material for desk- and tabletops, walls, floors, doors, acoustic panels and baffles. It can also be used to build strong and lightweight furniture such as tables, cabinets, phone booths and partition walls.

The lightweight construction consists of a patented grid system. This makes the construction panel stronger and stiffer than any heavy solid panel currently available on the market. It does not bend, allowing easy construction of long structures for furniture and building applications.

It is 100% flat, giving a perfect, even finish and a unique sleek look.

Why choose Greengridz®?

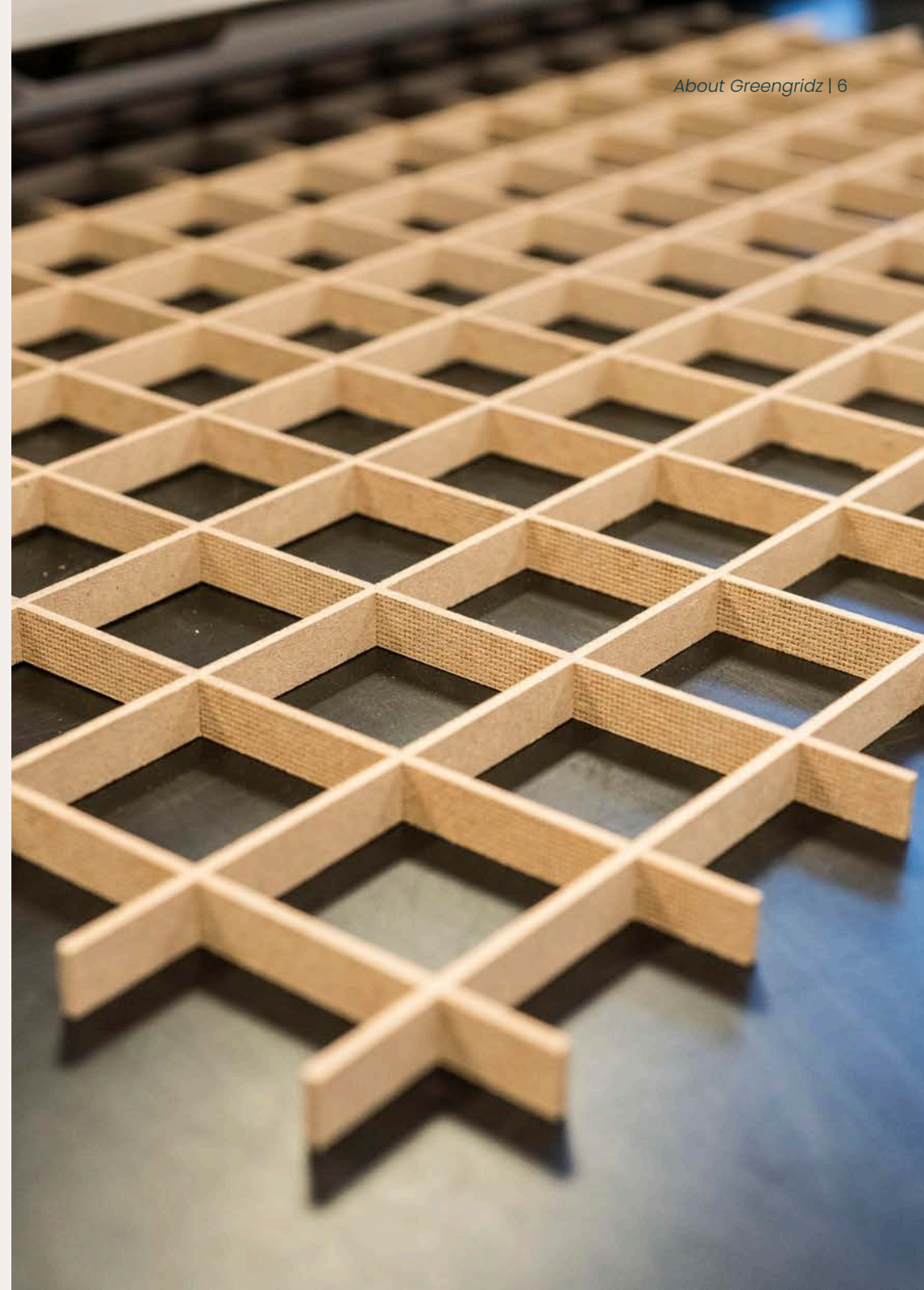
- # 60 to 90% less material
- # 60% lower CO₂ footprint
- # 100% circular
- # Innovative, patented, lightweight grid
- # Super strong and does not warp
- # Long tabletops made out of one piece up to 5m in length
- # 125 different finishes
- # 15-year warranty

That's why you choose Greengridz® !

60-90 % less material.

Thanks to the innovative grid system, between 60 and 90% less raw materials are needed depending on the thickness of the panel. A desk- or tabletop made from the durable lightweight Greengridz® construction panel looks the same as a traditional solid desk or tabletop.

The secret of its strength is hidden in the clever internal construction. With a density of only 270 kg/m³, means that almost three times less material is used compared to a heavy top made of solid material such as particleboard, MDF or plywood. The excess material is no longer needed to make a strong top. This avoids the use of raw materials and also eliminates the need to recycle them.



60% lower CO₂ footprint.

In practice, this means only one truck goes on the road instead of two, saving half of the mileage, fuel and CO₂. The weight per square metre of a 38mm furniture panel would equal to approx. 12 kg of plywood, 25 kg of chipboard or 8 kg of Greengridz®

Greengridz® is proven 'best in class' in the market. The MRPI®-EPD certificate substantiates this and has been verified by EcoReview. The LCA study was carried out by SGS Search. The certificate is based on an LCA dossier according to ISO14025 and EN15804+A1. It has been verified according to the 'MRPI®-EPD verification protocol November 2020.v4.0'.

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.

100% Circular.

Thanks to the innovative grid system, between 60 and 90% less raw materials are needed depending on the thickness of the panel. A desk- or tabletop made from the durable lightweight Greengridz® construction panel looks the same as a traditional solid desk- or tabletop.

The secret of its strength is hidden in the clever internal construction. With a density of only 270 kg/ m³, means that almost three times less material is used compared to a heavy solid top made of solid material such as particleboard, MDF or plywood. The excess material is no longer needed to make a desk- or tabletop strong. This avoids the use of raw materials and also eliminates the need to recycle them.





Lightweight grid.

Thanks to the grid system, the construction panel is stronger and more robust than any heavy solid panel currently available on the market.

It doesn't bend, making it easy to construct long structures for furniture and building applications.

In addition, the panel is 100% flat, which ensures a perfect, even finish. What makes Greengridz® tabletops really special is that they can be produced in one piece up to 5180mm in length. The core material is ideally suited to building long tables.

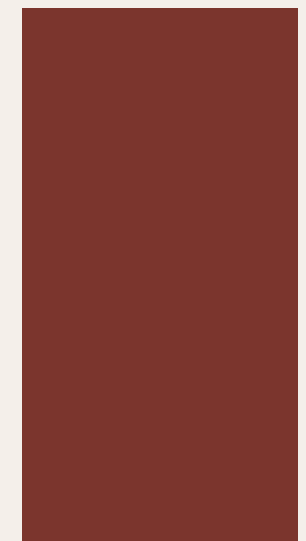
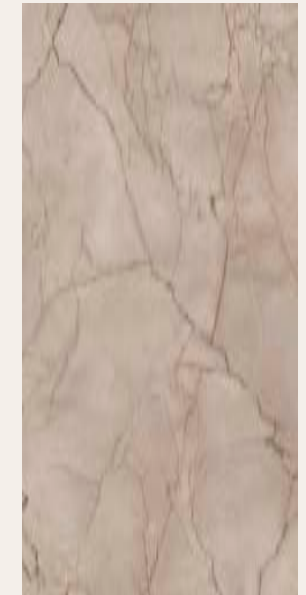
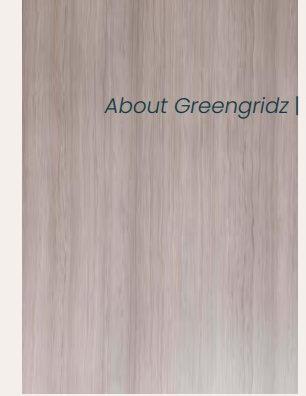
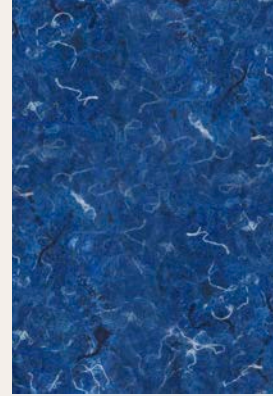
You no longer need to divide the top, which significantly improves the overall look. The thickness ranges from 24mm to 100mm.

125 different finishes.

Greengridz® desk and table tops can be supplied in over 125 different finishes. HPL (Pfleiderer, Egger & Arpa Fenix BLOOM) in all possible colours and wood decors. Forbo desktop and wood veneer. Laminate from recycled jeans, seaweed and straw.

We also offer any other finishes from a compatible brand of your choice.

This gives each top its own identity and is fully customisable to personal taste.



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 160x80 cm Greengridz® desk saves 30 kg of CO₂ emissions compared to a solid desk or table top.

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.



[Click here to try.](#)

Environmental Cost Indicator.



Environmental Cost Indicator



Material Use



CO₂ Emissions



Greengridz
€ 2,31



Chipboard
€ 3,64



Multiplex
€ 7,01



Greengridz
5,56 kg



Chipboard
15 kg



Multiplex
11,16 kg



Greengridz
9,34 kg



Chipboard
17,14 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.

Certifications & Labels.



ECI



LCA

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.

Greengridz® circular desk- and tabletops.

With every work or meeting space furnished with a Greengridz® desk- or tabletop, a substantial contribution can be made to reducing material use, CO₂ and waste.

The saving on a 1600x800x24mm desktop is approx. 12 kilos of material and 60% CO₂ compared to a traditional solid desktop made of chipboard. Therefore, three lightweight Greengridz® tops can be made from the material of one solid desktop.



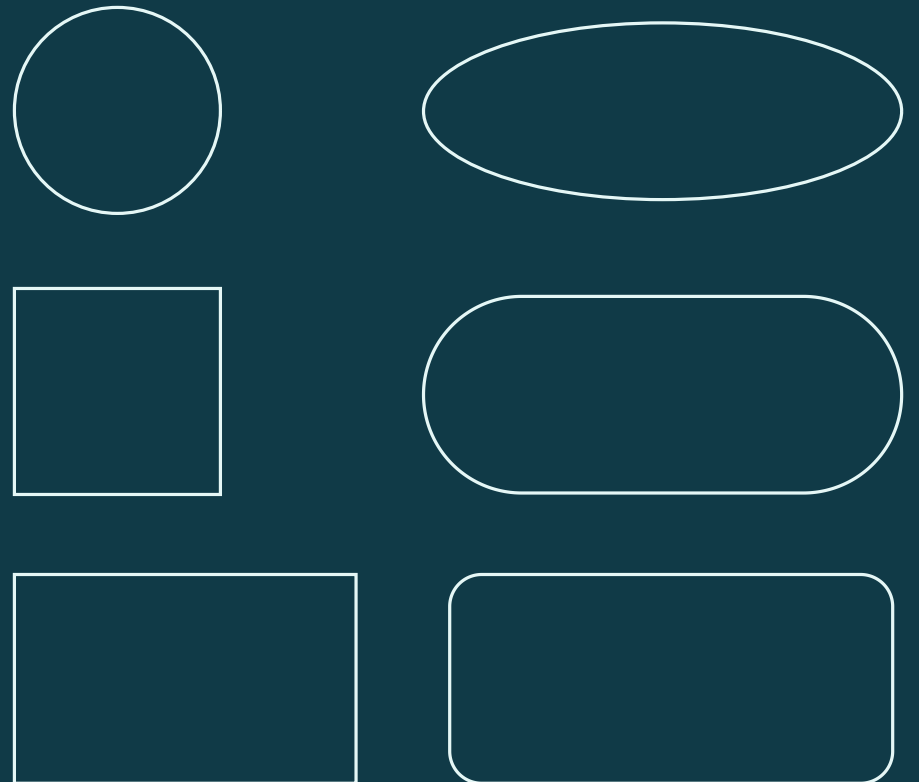
Edge Finishes.



Corners.



Shapes.



125 Finishes always in stock.



#GREENGRIDZ

You can make anything with Greengridz®

We make sure everyone can build strong, circular furniture with less material, less CO₂ and less waste.

Walls, floors, doors, acoustic panels, shelves, you name it!

Whether you're a furniture producer, interior builder or architect, the panel can has so many different possibilities to help you reduce the CO₂ emissions on your next project.

Planning a big event or fair? The panel can be used as a floor system and walls to divide the stalls, as shelves and even acoustic panels.

Designing a new product? A shelf, cupboard, table or stool, the panel allows for easy construction just like any other panel on the market. With over half of CO₂ emissions saved on each product.

Own a gallery or retail space? Build plinths, tables and benches to fill up the space, ensuring your visitors are immersing themselves in a healthy environment.

You can make anything with Greengridz | 20

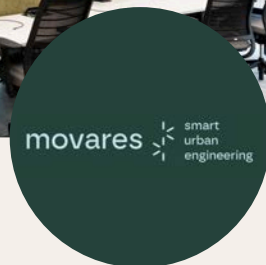
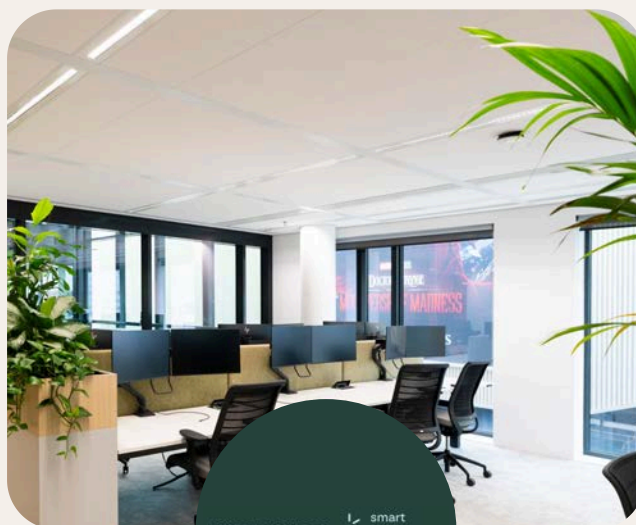


A selection of Greengridz® projects.



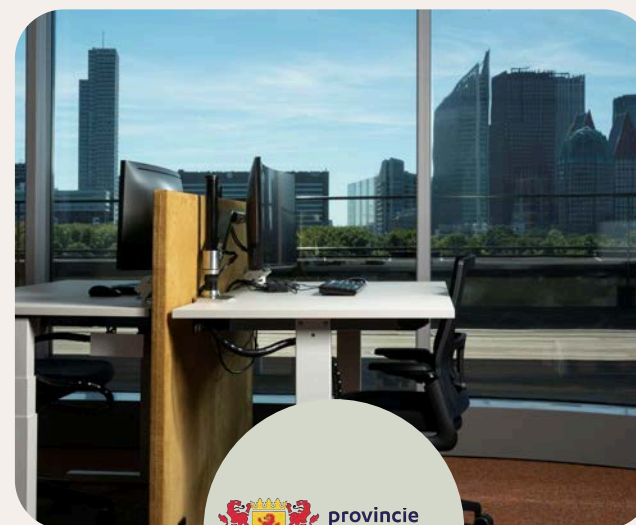
The Royal Flora Holland Office was furnished with 400 Greengridz® tables.

[Read more](#)



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

[Read more](#)



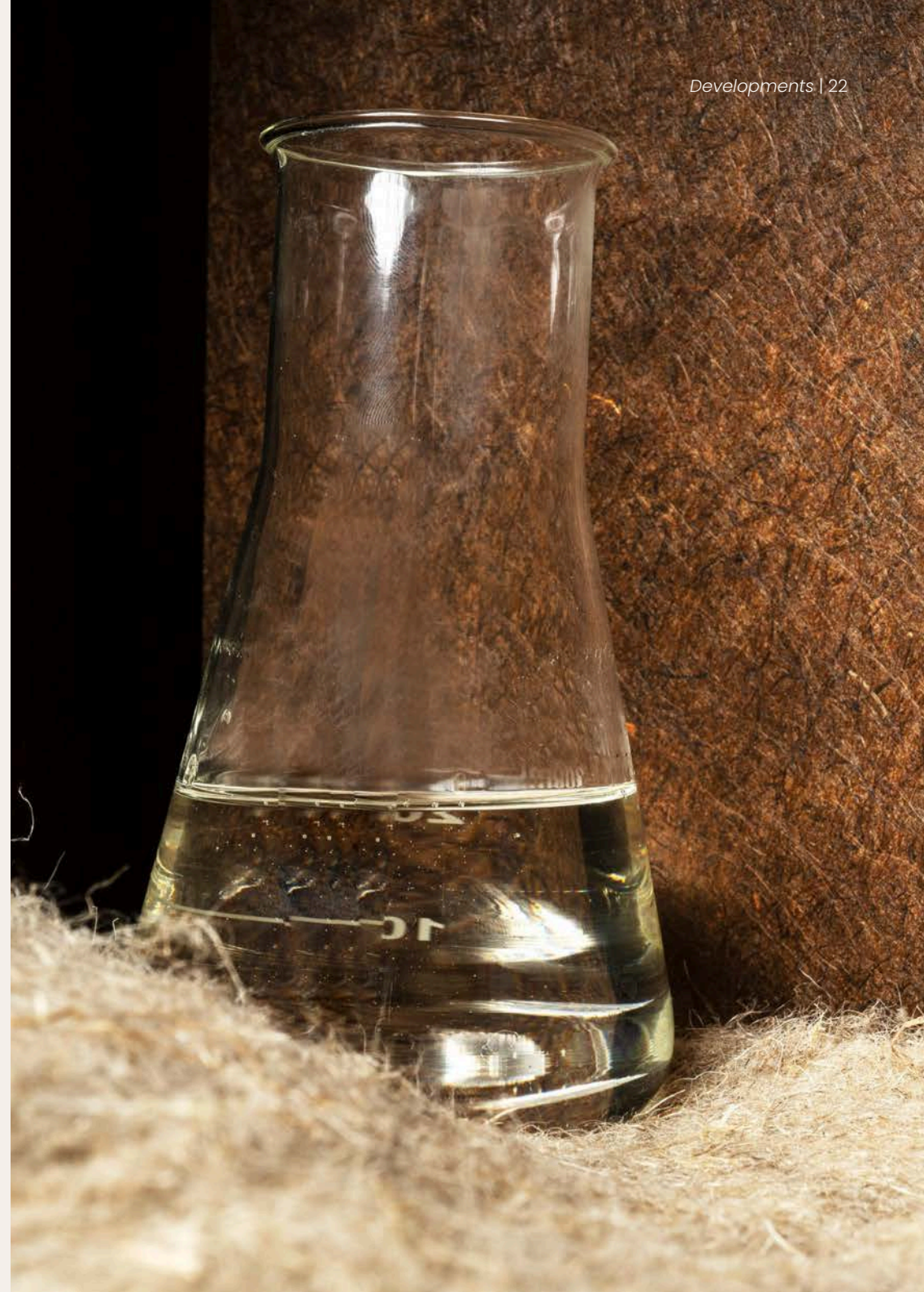
Province of South Holland saved 2.737 kilo of material on 140 workplaces using reused desk frames with Greengridz® desks and 9 oval meeting room tables of 4 meter 60 in length.

[Read more](#)

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.](#)

Technical Specifications.

The following diagrams present key technical properties of Greengridz® construction panels, including density, flexural strength, and internal bonding, across a range of panel thicknesses. Together, they illustrate how material performance changes with thickness, helping to identify the most suitable configuration for different applications.

For example, thicker panels generally exhibit lower flexural strength, making them less flexible, while in some cases offering advantages such as reduced density. At the same time, certain properties, such as strong internal adhesion and surface performance, remain consistent across all thicknesses, demonstrating the reliable baseline quality of Greengridz® panels.

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/mm ²
EN 322	Moisture				>150				%
EN 382	Surface Absorption				7+/-3				mm
ISO 3340	Silica Contents				0.05				kg/m ³
EN 120	Formaldehyde Content				Class E1				N

Greengridz[®] circular desk- and tabletops.

Shapes	Rectangle, square, round, half-round, oval, triangle
Maximum Dimensions	1220 x 3050 mm - 1220 x 4100 mm 1220 x 5180 mm - 810 x 3660 mm
Thickness	23 to 80mm
Finishes	125 different finishes including WOOD veneer, Duropal HPL, Arpa Fenix, FORBO Desktop, customisation
Operations	Openings for power strip, cable entry, drilling plan and viewing window
Top layers material	Exterior
Grid material	MR (Moisture Resistant)

#GREENGRIDZ

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.

Get in touch using the details below or visit our showroom.

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