

THE WELL v.2 BUILDING STANDARD™



Carpets Inter®

C H A P T E R O N E

WHAT IS THE WELL v.2 BUILDING STANDARD?

1. What is WELL v.2 Building Standard?

The role buildings can play in human health and well-being has never been more evident or more important. Thanks to an evolving evidence base, we understand more about the relationship between the physical environment and human health than ever before. We know how to create spaces that enhance, rather than hinder our health and well-being. We can measure and then improve the quality of our air, water, and light. We can design environments that fuel our bodies, move us, keep us connected, inspire our best work and facilitate a good night's sleep.

The WELL v.2 Building Standard is the next step in the construction of "green" buildings. WELL v.2 is a "performance-based system for measuring, certifying, and monitoring features of the built environment that impact human health and well-being, through air, water, nourishment, light, movement, thermal comfort, sound, materials, mind & community.

WELL Certification is a roadmap for organizations looking to advance human health and well-being in a single asset or location.



The WELL v.2 Building Standard (WELL) is a roadmap for creating and certifying spaces that advance human health and well-being. Developed over 10 years and backed by the latest scientific research, WELL sets pathways for accomplishing health-first factors that help every one of us to do our best work and be our best selves by supporting our physical and mental health. Rigorous performance standards for design interventions, operational protocols and company-wide practices are verified by a third party. WELL works at any scale, from a single interior space to an entire organization.

WELL Certification is ideal for organizations implementing WELL within a single building or asset. The program helps organizations monitor ongoing building performance and collect employee feedback, enabling them to take a data-driven approach to their health and well-being efforts. Organizations can leverage quantifiable metrics from WELL Certification to advance Environmental, Social and Governance (ESG) reporting efforts.

A COMPREHENSIVE APPROACH TO WELL-BEING

Spanning 108 features and 10 concepts, WELL is a roadmap for improving the quality of our air, water and light with inspired design decisions that not only keep us connected but facilitate a good night's sleep, support our mental health and help us do our best work everyday.

Projects are required to pursue a certain subset of features or strategies within the 10 WELL v.2 concepts, including;

1. Air
2. Water
3. Nourishment
4. Light
5. Movement
6. Thermal Comfort
7. Sound
8. Materials
9. Mind
10. Community



In order to demonstrate compliance with program requirements, projects must submit documentation, which is evaluated and tested by a third party. Projects earn points toward their WELL Certification goal with every feature they achieve. Upon achievement, projects receive a plaque indicative of one of four levels of certification based on the total number of points earned.

- WELL Certified Bronze: 40 points
- WELL Certified Silver: 50 points
- WELL Certified Gold: 60 points
- WELL Certified Platinum: 80 points

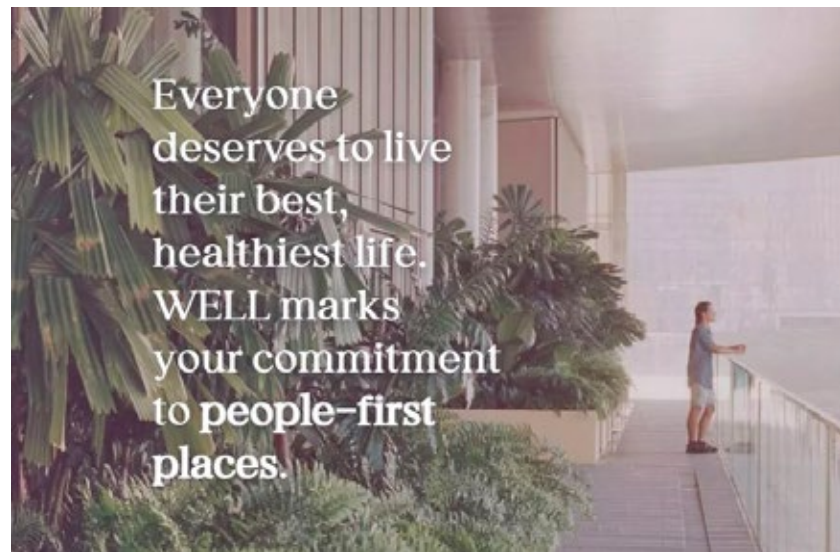
CERTIFICATION LEVELS

Projects must achieve all preconditions, as well as a certain number of points towards different levels of WELL Certification:

Total points achieved	WELL Certification		WELL Core Certification	
	Minimum points per Concept	Level of Certification	Minimum points per Concept	Level of Certification
40 pts	0	WELL Bronze	0	WELL Core Bronze
50 pts	1	WELL Silver	0	WELL Core Silver
60 pts	2	WELL Gold	0	WELL Core Gold
80 pts	3	WELL Platinum	0	WELL Core Platinum

Projects may earn no more than 12 points per concept and no more than 100 points total across the ten concepts.

Projects can also pursue an additional ten points in the Innovation concept. A project may seek additional points in concepts where the project has already reached the 12-point maximum, by submitting features or parts not already pursued within those concepts as innovations for Feature I01. These submissions are worth one point per part, regardless of the listed point value of that part.



C H A P T E R T W O

WHY YOU NEED WELL



Sound Absorption



Inhale - IN02, IN10
Exhale - EX02



Ebb EB34 and Flatlands FL22

Regrettably the function of noise reduction within a learning, working, relaxing or recuperating space is often neglected when a space is designed and fit-out. Interior finishes for ceilings, walls and floor surfaces are generally selected for their aesthetic appeal, decorative coordination, affordability, durability and sustainability. However, one key factor often neglected in the selection process of these large surface areas is how they contribute to suppress ambient noise created from either within, above or outside the enclosed space, which can all affect the occupant's wellbeing.

Modern space design is adopting a more open plan co-working approach; however, this increases the risks of noise distraction and reduces concentration levels particularly for individuals who suffer from neurodiverse conditions and as a result will reduce the productivity level.

Excessive noise levels over a prolonged period of time can damage your hearing. This may happen so gradually and painlessly that you may not even notice the minor deterioration from one day to the next. Excessive noise in the workplace is often attributed to other health problems as well, such as;

- headache or migraine
- elevated blood pressure complications
- fatigue
- irritability and contributed insomnia
- digestive disorders
- increased susceptibility to colds and other minor infections.

Carpets Inter EcoSoft® modular carpet tile achieves an average sound absorption of 30% (NRC @ 0.30). However, when we talk about carpet, another value we need to consider is the Improvement of Impact Sound abbreviated as IIS. This is a value that indicates a materials ability to attenuate floor-to-ground noise. A good example of this is when people are heard walking above in an upstairs level. Whilst a hard flooring would provide poor ISS (average 80dB), a carpeted space will reduce noise down to an average of 52dB, considerably reducing the sound heard by the occupants below by 28dB.

Carpets Inter EcoSoft® modular carpet tile achieves an ISS rating of 28dB as tested under ISO standard #ISO10140-3:2010. Investing in EcoSoft® carpet tile throughout dual and multi-level buildings considerably reduces reflections and the ambient noise level within the occupied space.

For more information on sound absorption properties of alternative backing types, please contact your local CI representative.

Ergonomic



Ergonomic and universal design play a significant role in mitigating physical and mental stress. Most of the adverse health effects related to ergonomics are seen in the musculoskeletal and nervous systems of the human body.

Carpet effectively absorbs foot impact and as a result reduces leg muscle fatigue to a greater degree when compared with hardfloor impact. Comfort under foot translates to a higher degree of comfort for the occupant and may assist to increase the overall productivity of the staff working within the facility.

Consolidated laboratory test results show that Carpets Inter proprietary EcoSoft® PET felt cushion back modular carpet tiles manufactured using recycled plastic bottles, will consistently out-perform and achieve a far better pile thickness recovery than an equivalent pile weight & density of hard back carpet tile (full test data is available upon request).

EcoSoft® cushion backing prolongs the products appearance retention and underfoot comfort, providing occupants within the facility increased longevity of wear.



The WELL Building Standard promotes comprehensive ergonomics solutions that help prevent stress and injury and facilitate comfort and well-being. These design strategies not only provide access for people with limited mobility, but also prevent injury by encouraging navigable spaces for everyone.



OVER THE OCEAN
OC01, OC03, OC06

Building Air Quality



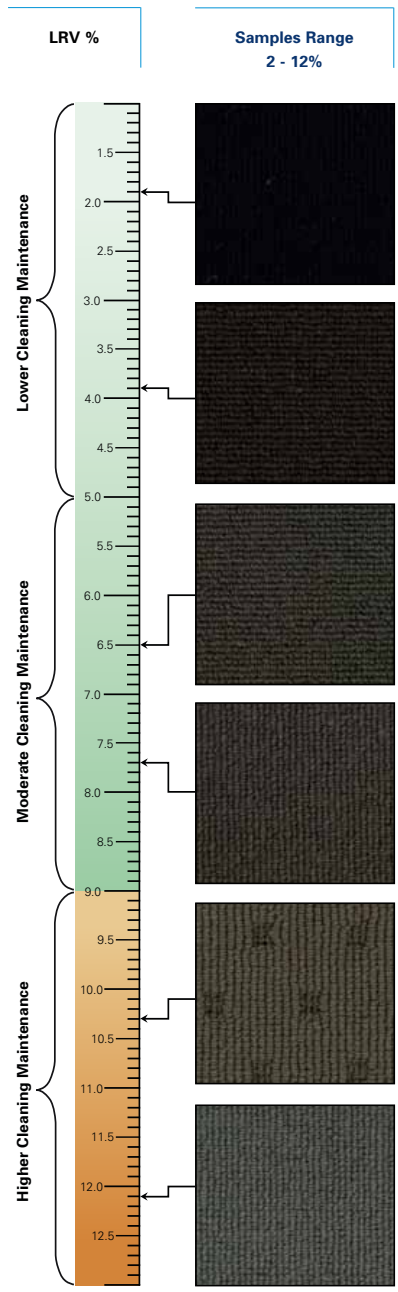
With their superb dust-trapping properties, carpets are conducive to a healthy living environment. Dust settles quickly and is then securely held by the pile fibers of the carpet until it is vacuumed again.

The dust is not disturbed by circulating air draughts, and this means that the dust content of the indoor air is kept low. This is particularly important since dust particles also act as carriers for germs, allergens, and other air contaminants.

The myth that carpet promotes dust-mite allergies is untrue, because these are attributable to dust mites – the actual allergen itself. Bedding and bed linen contain up to 70% more house-mites than carpet. Regular vacuuming and cleaning, together with adequately ventilated and dry rooms, mean that it is virtually impossible for a carpet to contain, entrap or transmit allergens.



Inhale - IN01, IN08
Exhale - EX03



Light Reflectance

The WELL Light concept promotes exposure to light and aims to create lighting environments that are optimal for visual, mental and biological health. The lighting environments where humans spend their time impact their visual, circadian and mental health. Currently, lighting conditions in most spaces are designed to meet the visual needs of individuals, but do not take into account circadian and mental health. This presents an opportunity for projects to provide lighting conditions required by humans for optimal health and well-being.

WELL aims to establish that a lighting environment will reduce circadian phase disruption, improve sleep quality and positively impact mood and productivity. The selection of carpet shade is influenced by a range of factors that include cleaning maintenance and appearance retention properties as well as the comfort and safety of building occupants.

It has become important to understand the light reflectance of fit-out materials, including carpets, installed in commercial buildings in order to efficiently plan lighting and provide visual contrast where required.



Queen Sirikit National Convention Center, Bangkok Thailand

All Carpets Inter carpet tile colorways have been tested to determine their LRV ratings, which are available upon request.

Thermal Comfort



Thermal comfort is another factor that plays a large role in the way we experience places where we live and work.

The WELL Thermal Comfort concept aims to promote human productivity and ensure a maximum level of thermal comfort among all building users through improved HVAC system design and control and by meeting individual thermal preferences.

Carpets can make a measurable contribution to retaining the warmth in a room and therefore saving energy. Carpets have low heat conduction and are natural thermal insulators creating a heat barrier.

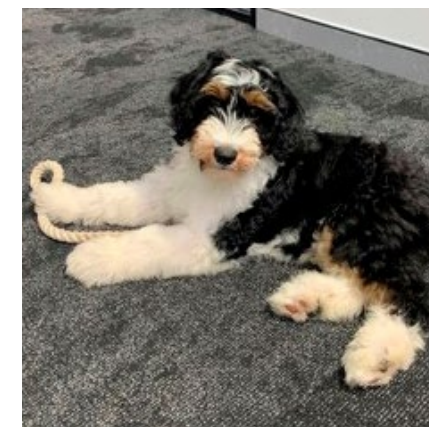
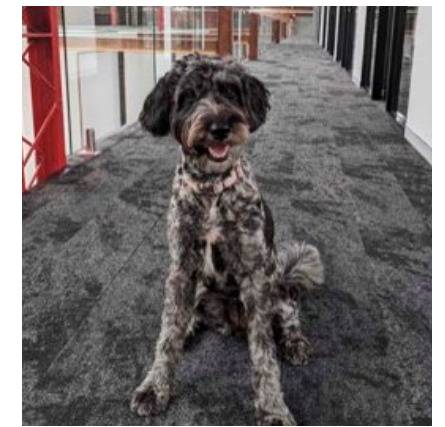
As a result, as much as 10% of the heat in a room which would be dissipated with smooth floorcovering is retained in the room by the carpet.

This can result in a considerable reduction in the use of HVAC systems (heating & air-conditioning) in the transition periods between warm and cold seasons. It has been estimated that up to 30 days' worth of heating energy can be saved, resulting in a reduction of <4-6% of energy related carbon footprint and a considerable reduction in heating bills.



Inhale - IN08

A room with EcoSoft® promotes thermal comfort, saves energy and also contributes to a reduction in Green House gas emissions (CO₂e), that are a major cause of climate change.



Installation at Workit Spaces

"We absolutely love our EcoSoft carpet. The carpet is an amazing initiative to showcase how we can recycle and reuse what was once single-use plastic like PET recycled bottles to turn it into a beautiful interior design finish!"

At Workit Spaces, our mission is to enable sustainable businesses to thrive by creating innovative ecosystems. We're determined to go carbon neutral across our ever-growing network of business hubs, SaaS platform and fulfilment centres. By using the EcoSoft carpet, we've been able to incorporate environmental sustainability into our eCommerce hubs. We believe everyone plays a vital role in reducing the impacts of climate change and using materials like the EcoSoft carpet to furnish our hubs is a great way to be reminded of how we can repurpose, recycle, reuse and reduce waste."

Sonia at Workit Spaces

Biophilic Design



A beautiful and meaningful space in which design aesthetics are expressly considered can have a positive impact on occupant morale and mood. Elements that provide visual complexity, balance and proportion can impart a sense of comfort, ease and potentially mitigate stress.

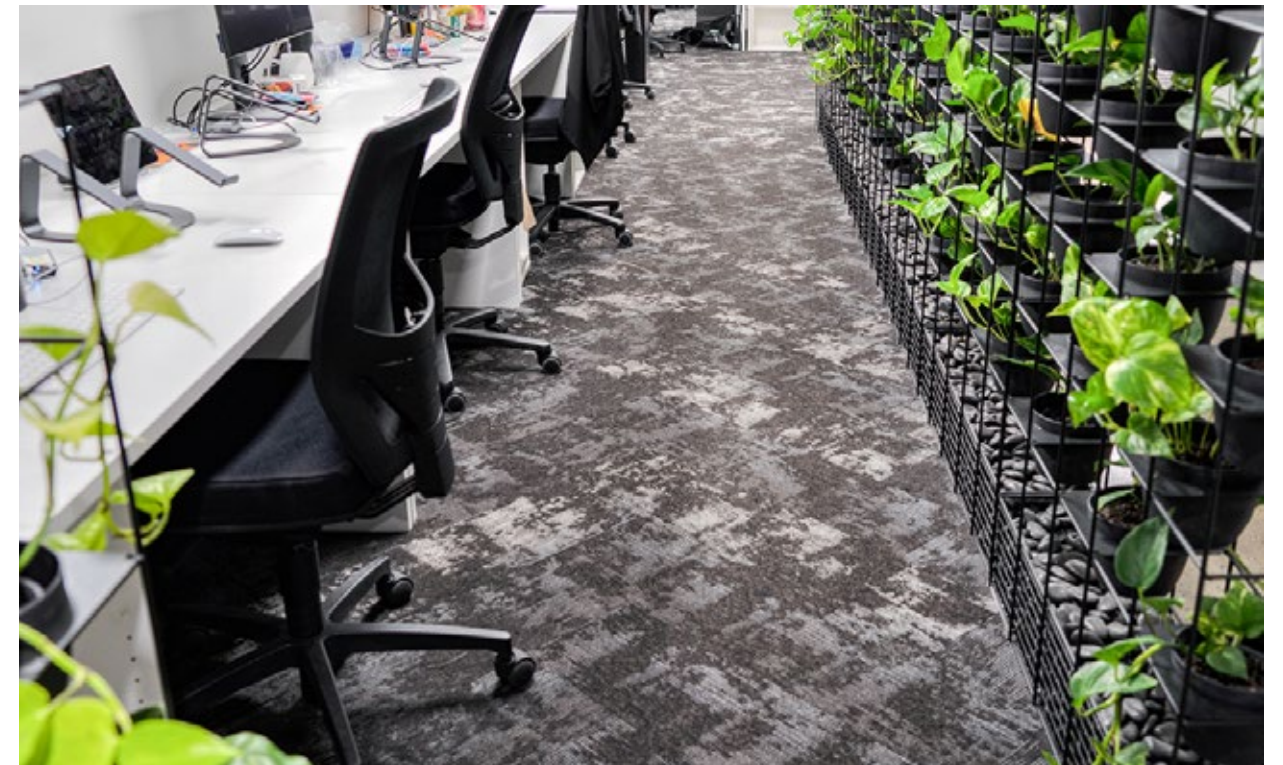
- Plants improve air quality by removing pollutants and adding oxygen to the surroundings.
- Dry conditions from recirculated air is improved with humidity from foliage.
- Plants reduce stress by providing a relaxing, restful ambiance to a room.



Inhale - IN14

Using plants help incorporate health and well-being into architectural and interior designs. A poll taken by Human Spaces and published in The Global Impact of Biophilic Design reported natural elements in the workplace environment such as greenery and sunlight gave workers a 15% higher level of well-being. And they were 6% more productive and 15% more creative.

A living wall provides access to nature and meets part of the WELL v.2 Building Standards certification requirement for greenery.



Shimmer - LS02



Croplands - CL15

**We will
RECYCLE OVER
1,000,000,000
discarded
PLASTIC BOTTLES
by 2025**

EcoSoft® by Carpets Inter®

Simply put, WELL Certification is for everyone, everywhere.

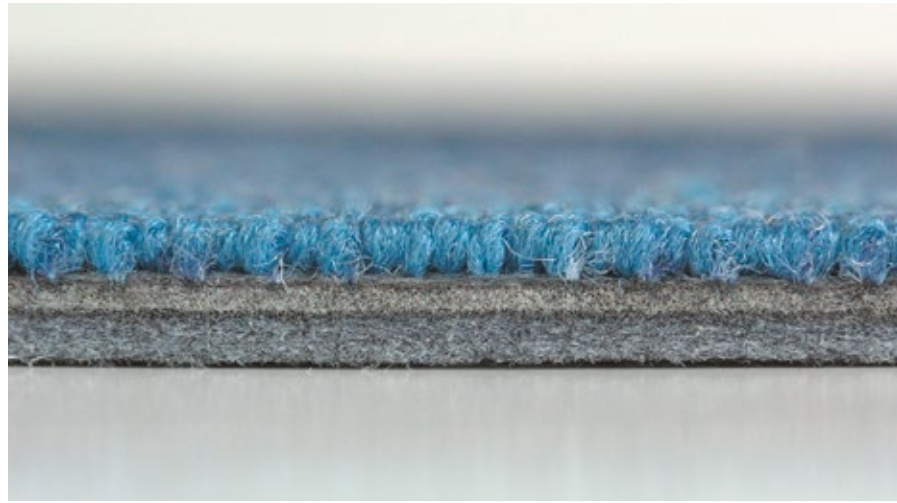
In November 2016, the WELL Building Standard™ and BREEAM were aligned, meaning submitted documentation can be recognized by both organizations, saving time and money. In April 2017, WELL and LEED also aligned to work in synergy. If "*sustainability and health are synonymous*" (Rick Febrizzi, CEO of IWBI), it makes total sense for these systems to work together.

WELL Certification is accessible and applicable to multiple types of locations and spaces. Some popular sectors include:

- Hospitality
- Office
- Education
- Healthcare
- Industrial
- Retail
- Residential

Carpets Inter carpet tiles are available in a wide variety of aesthetically pleasing patterns in numerous color options, in both recycled cushion and hard backing.

For more information, please contact your local CI representative.



WHY WE DO WHAT WE DO.

The threat to our marine life is at a critical level due to the massive amounts of plastic being dumped into our oceans every day. To date we have recycled over 830 million PET bottles into the manufacturing our unique 'EcoSoft®' cushion back modular carpet tile, thus reducing the effects of plastic pollution on our planet... it's just good stewardship!

At Carpets Inter, we create modular carpet that does more than just make the world more beautiful; it makes it more livable. We do this with products that meet stringent indoor air-quality needs, are safe to manufacture and utilize and incorporate recycled materials wherever feasible including our unique EcoSoft® backing fabricated from millions of recycled plastic bottles. Our commitment to ecological sustainability extends beyond our product. We practice it in everything we do – from manufacturing facilities that maintain the highest environmental standards, to reducing our carbon footprint in every facet of our global business.



All are visible on the Sustainable Minds site [<Click>](#).

EcoSoft® is a unique, high-performance and environmentally conscious carpet tile cushion backing – responsibly recycling millions of discarded single-use PET water bottles into a very good use. This solution dyed nylon PET felt modular carpet tile is recognized by the International Living Future Institute (ILFI) under their DECLARE Label award program as RED LIST FREE, the highest designated level acknowledging no harmful material content. This achievement further demonstrates Carpets Inter genuine commitment to material transparency, providing safety and hygiene towards healthy occupied spaces, while aspiring to achieve carbon neutrality aligned with Well Building Certification.



**CARBON CAPTURE
THE REGENERATIVE POWER OF SOIL**

THE KEY SOLUTION TO CLIMATE CHANGE

From repurposing and reusing waste PET bottles into our product, providing our manufacturing plants organic waste to local agriculture and planting thousands of trees each year in our local community... it's just good stewardship!

For every +1% more organic material per acre present in the soil, the earth will naturally sequester an additional 10 Tons of Carbon draw down per year from the atmosphere. **Under the Paris Climate Change Agreement, there is no such thing as a Carbon offset project. Taking responsibility means you should actively participate in an Emission Reduction or a Climate Change Mitigation project, such as carbon sequestration.** At Carpets Inter we practice prevention at source rather than solely relying on purchasing Carbon [marketing] credits to offset our carbon footprint.



Since 2014, Carpets Inter has been repurposing and donating treated sediment from our manufacturing operations, contributing to produce over 15.5 million Kilograms (310,000 x 50Kg sacks) of organic fertilizer to annually fertilize over 5,250 acres of Thailand's agricultural Croplands.

REFERENCES

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Carpets Inter is a brand under TCM Surface, a division of TCM Corporation headquartered in Thailand. At Carpets Inter, we aim higher. We work to be a better company. This endeavor has its foundation in the manufacturing of modular carpet products that are well designed, durable, and comfortable underfoot; and is sustained through shared values of environmental responsibility, social accountability, and economic fairness that make a positive impact wherever our products are sold or used throughout the world. We are, above all, a multinational company with a multicultural commitment to good global citizenship.

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