JVP

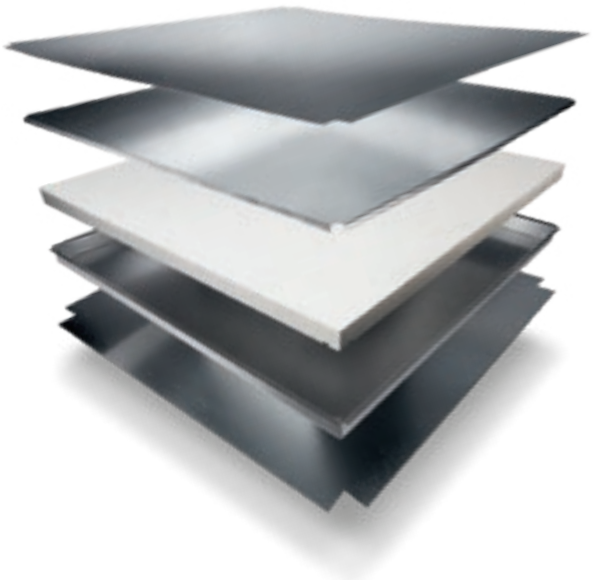
Raised access floor
Pavimento **sopraelevato**
accessibile

The goal

Efficiency in simplicity

Around the world, major construction projects include and will increasingly include JVP 4X4 steel panels as basic flooring elements, revolutionising the entire design approach: integrating, improving, and replacing what was previously proposed by construction technologies that are often outdated and unlikely to change and innovate. Always in step with market evolutions, JVP is an accurate interpreter of future trends.

JVP does all this in perfect harmony with people, technology and the environment, adopting production methods that respect the strictest standards and using only raw materials having a very low impact, certifying the entire system according to the strictest quality standards of excellence specific to the circular economy.



Care

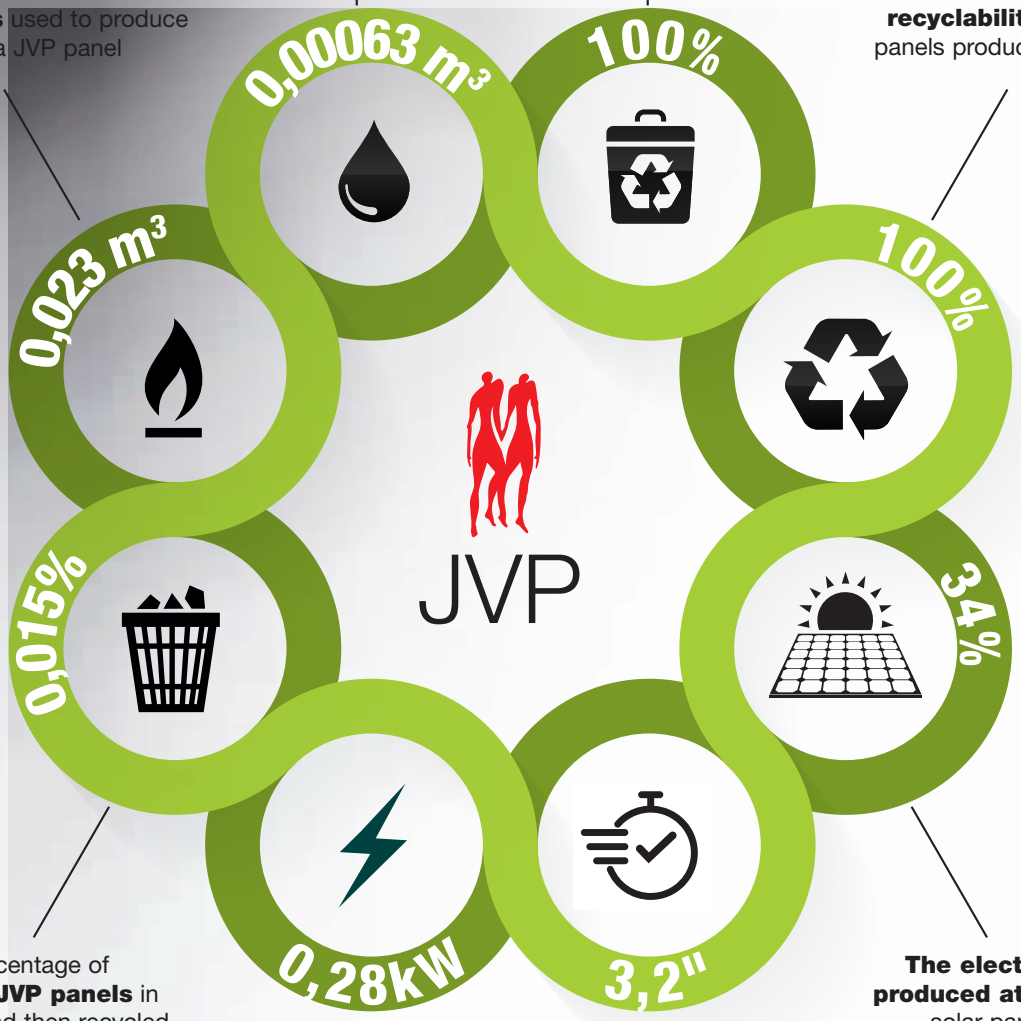
JVP's entire activity is always carefully planned, controlled, documented and constantly improved, **for Planet Earth**, **for us**, and especially **for future generations.**

Of **water** used to produce a JVP panel

The **recycling** rate of JVP production waste

Of **gas** used to produce a JVP panel

The **after-life recyclability rate** of panels produced by JVP



The percentage of **discarded JVP panels** in production and then recycled

The electricity produced at JVP by solar panels

Of **electricity used to produce a JVP panel**

The time to produce a JVP panel


BOMBOLETTE
SPRAY VUOTE
Codice 15 01 10*

Environment and **Technique**

As part of a clear and conscious ethical choice, JVP is strongly committed to **reducing the environmental impact** of its systems throughout their lives. Starting from **the choice of raw materials**, followed **by production limiting waste and consumption**, installation and modifications, to an advanced program of reuse or **complete recycling**, in a **circular economy approach**, if disposal is required.

JVP has always been a **pioneer in the** practices, modalities and **certifications** required to produce and work in accordance with its principles.

JVP obviously complies with all the requirements established by international rules and standards, as well as with those that might initially be considered “trendy.”

There are many environmental sustainability protocols for buildings around the world, such as: **Itaca** Italy, **LEED®** USA, **WELL®** USA, **DGNB®** Germany, **BREEAM®** Great Britain, **HQE®** France, **MINERGIE®** Switzerland and **GECA®** Australia.

Although they have different procedural approaches, all of the protocols assign scores to buildings based on their environmental impact and increasingly their human impact on the place where they are built, in both the short and long terms.

In essence, products such as raised floors are rated based on a detailed analysis of raw materials, components, processing, transport, installations, modifications, recycling and disposal, which must be done already at the design stage.

To date, JVP has design, production and certification practices for its products and systems compliant with the strictest design requirements typical of new design or construction buildings, the only ones guaranteeing real and effective environmental sustainability of the world our children will live in.

LEED® is a voluntary system created by the U.S. Green Building Council, based on a consensus, for the design, construction and management of sustainable buildings and high-performance geographic areas, which is developing increasingly internationally. It can be used for any type of building and promotes an integrated design system for the entire building.

JVP is a partner of **GBCI**

Environment and Technique

	panels mm 600x600x 23mm	
	FSC-certified chipboard core	gypsum fibreboard core
standard	**C3TTL000**	**P3TTL000**
EN 15804 EPD standard PCR 2012:01	EPD - IT17/0057 -SGS	EPD - IT17/0056 -SGS
FSC recycled 100% STD-40-004 V3 STD-50-001 V2.0	INT-COC -001121	not applicable
VOC ISO 16000 Air comfort GOLD Leed V4 BREEAM Int.	approved/ compliant	approved/ compliant
Post-consumer recycled content	77%	49%
Sustainably Design	BRONZE	BRONZE

	panels mm 600x600x 29mm				
	FSC-certified chipboard core			gypsum fibreboard core	
standard	**C4TTL000**	**C5TTM000**	**C4TTM000**	**P4TTM000**	**P4TTH000**
EN 15804 EPD standard PCR 2012:01	EPD - IT17/0057 -SGS	EPD - IT17/0057 -SGS	EPD - IT17/0057 -SGS	EPD - IT17/0056 -SGS	EPD - IT17/0056 -SGS
FSC riciclato 100% STD-40-004 V3 STD-50-001 V2.0	INT-COC -001121	INT-COC -001121	INT-COC -001121	not applicable	not applicable
VOC ISO 16000 Air comfort GOLD Leed V4 BREEAM Int.	approved/ compliant	approved/ compliant	approved/ compliant	approved/ compliant	approved/ compliant
Post-consumer recycled content	82%	83%	81%	50%	51%
	BRONZE	BRONZE	BRONZE	BRONZE	BRONZE

UNI EN **ISO 9001**
Organisational quality since 2003

UNI EN **ISO 14001**
Environmental quality since 2008

FSC FORESTS FOR ALL FOREVER
Sustainable use of Wood (C certified since 2009)

GECA
Good Environmental Choice Australia (C and P certified from 2013)

EN **ISO 16000**
VOC Volatile Organic Compounds (C and P certified since 2014)

EN **15804**
EPD Environmental Product Declaration (C and P certified, LCA based since 2016)

bimobject

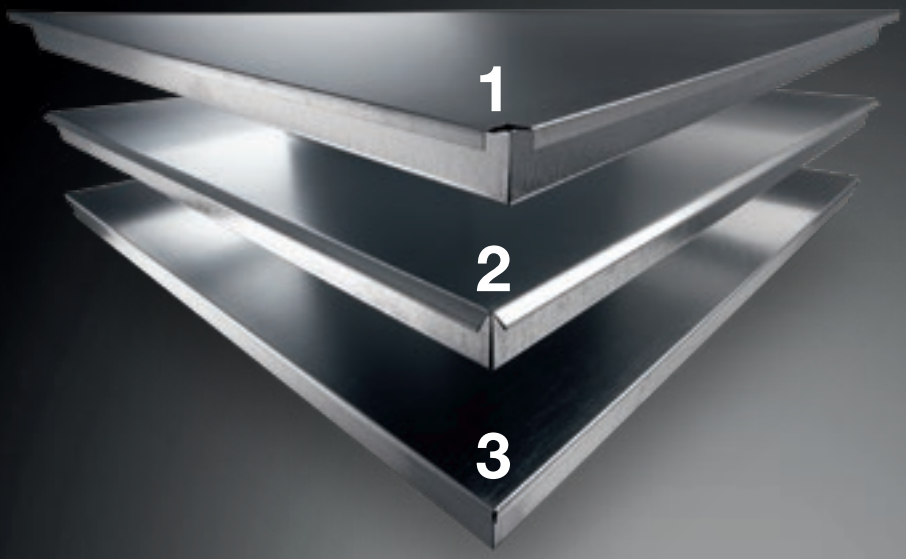
Building Information Modelling on the Bimoject.com platform
(all products available since 2015)

cradle to cradle CERTIFIED BRONZE

Cradle to Cradle Environmental Sustainability (C and P certified since 2020)

Idea

The future guaranteed by knowledge



A Capsule

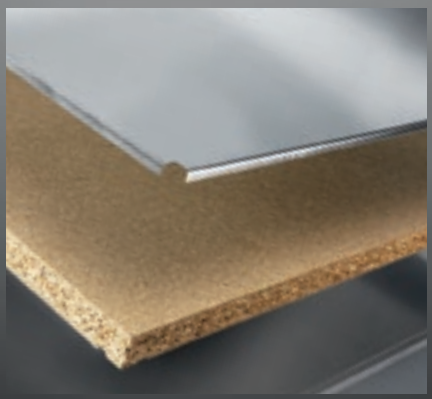
**in galvanized steel
on all six sides**

1 The raised floor must be highly resistant, first for the construction site and then for daily use. We have chosen a heavy-duty and fully recyclable **galvanized sheet metal casing.**

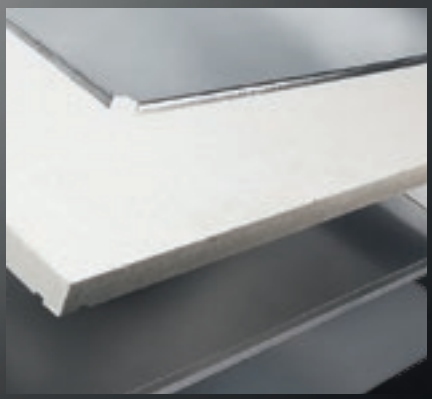
2 For best performance, we have chosen to use internal panels made of **FSC-certified wood chipboard** or **fibre-reinforced calcium sulphate** glued to the sheet metal, which are highly resistant to bending and breaking.

Two Families

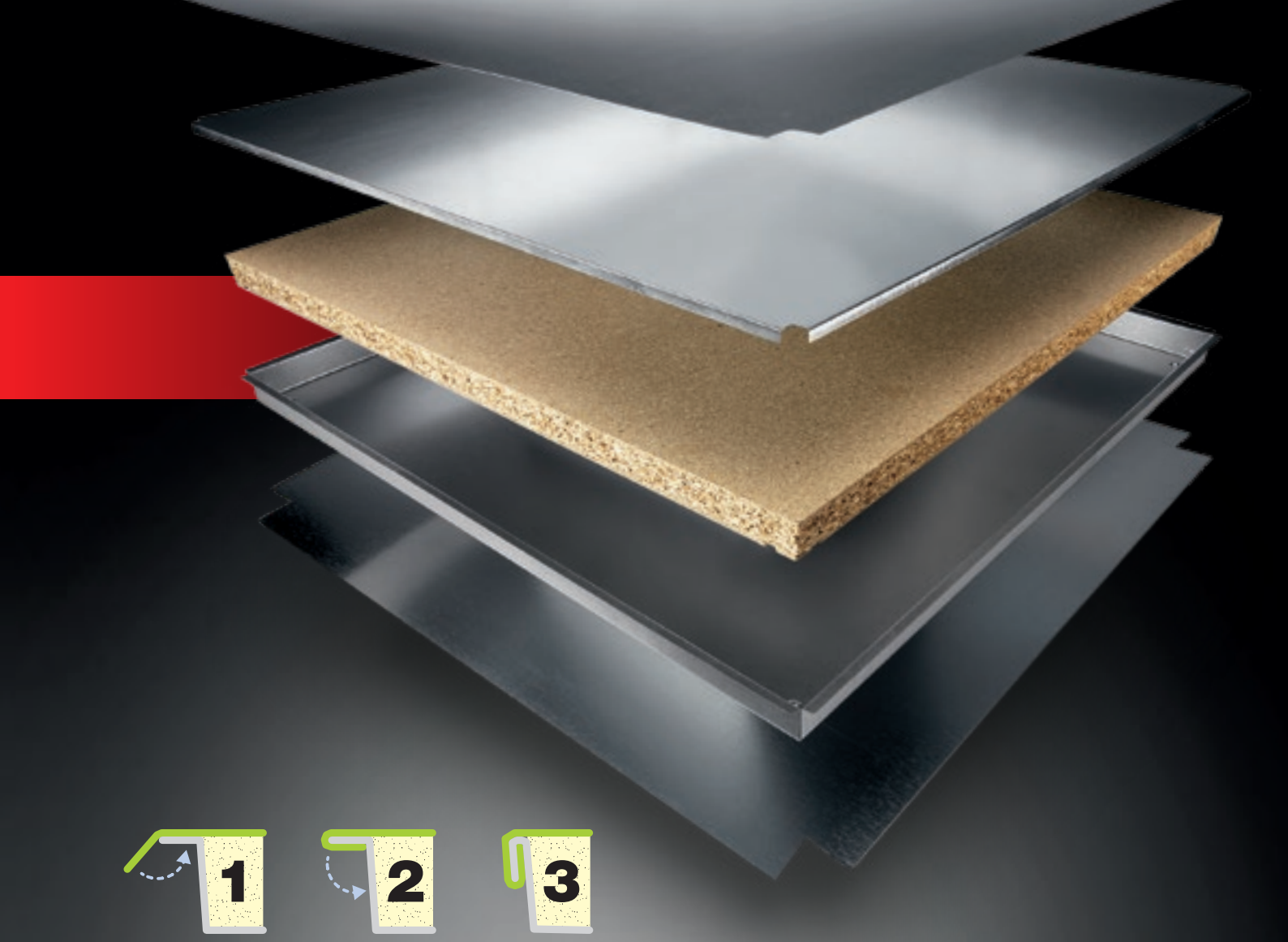
with C cores in FSC-certified wood chipboard and P cores in gypsum fibreboard



FSC-certified chipboard core



Gypsum fibreboard core



3

To close each panel, we have borrowed the idea of double-seams from food cans, so our panels already have a peripheral “beam” that eliminates the need for additional cross-pieces.

THE JVP 4X4 PANEL IS READY IN THREE STEPS:
A SIMPLE, EFFECTIVE AND INNOVATIVE IDEA IN THE FINEST ITALIAN TRADITION.

Two Thicknesses 23 e 29 mm

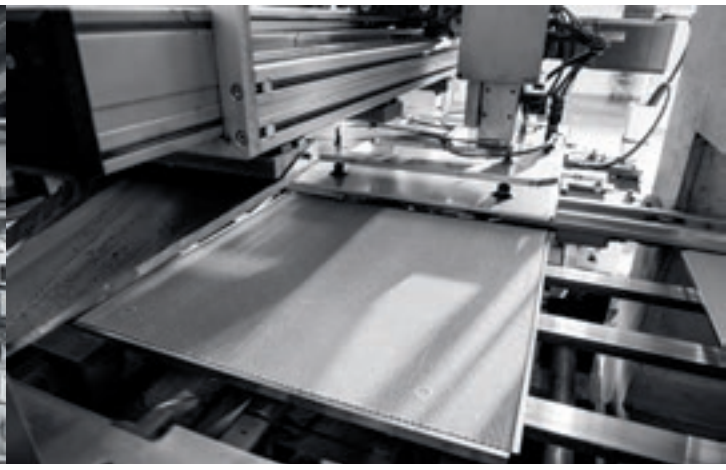
Excellent results require excellent tools

Tools

360 m²
of flooring produced every hour

3,2"
to produce a panel

0,015%
of panels discarded during production



JVP's plant is a third-generation production line designed entirely by JVP's technical staff in 2002, updated in 2017 and as fast and efficient today as any in the industry: come visit us or check out our photo gallery.


JVP

Easy **to install**

Weight and raw material, space and height, cost and time savings






Every building entails costs, first for its construction and then for its maintenance. Choosing the JVP 4x4 system guarantees:

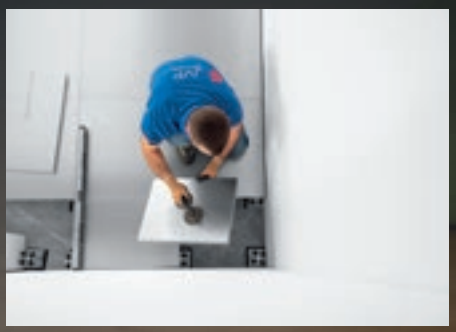
Weight and raw material savings.

By replacing poured screeds right from the design stage with a single JVP 4x4 system guaranteeing all system space functions, floor levelling, smoothing floor installation, soundproofing, thermal insulation and vapour barrier, with minimal costs and weights and clear advantages on structural dimensions, anti-seismic measures and consumption of raw materials.

Space and height savings.

It reduces the overall height of the building because part of the technological systems will be housed optimally in its plenum, which is especially roomy because it requires no cross-pieces.

In this way, the raised floor occupies less space. Cost and time savings. Installed immediately after construction of the building façades, JVP 4x4 facilitates all subsequent work for other operators: it streamlines building site management, reduces costs and construction times, and makes the building usable far sooner than using traditional systems.



Installation and maintenance cost savings.

Facilitates installation that is done at the last moment, facilitates maintenance of plenum systems that are always totally accessible, allows renovation of the premises simply by changing the coverings without involving the underlying panels, reduces inconvenience to building staff and minimizes work time.

Supports

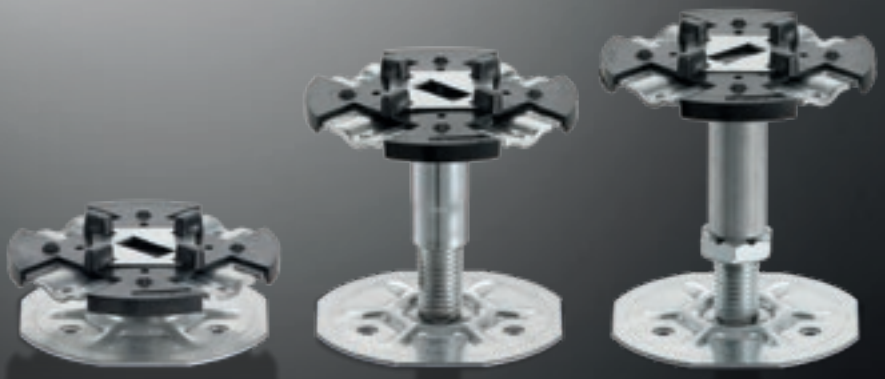
A professional system of components

2
materials
galvanized steel for supports and polyethylene for seals

The JVP JS dedicated **supports**, used with JVP 4x4 panels, become a system capable of providing all performance required by the most common international standards in this field (harmonized European Standard UNI EN 12825, six classes of mechanical capacity, British Standard UK PSA MOB PF2, four grades of mechanical capacity).

3
types
JSS - JSE - JSM

JS JVP **feet** are available in three types because not all floors need to offer the same level nor solve the same problems. All types are designed to house and support any JVP 4x4 panel, either as a simple support or in a corner-lock screw-on version, complete with tri-lobe self-tapping screws.



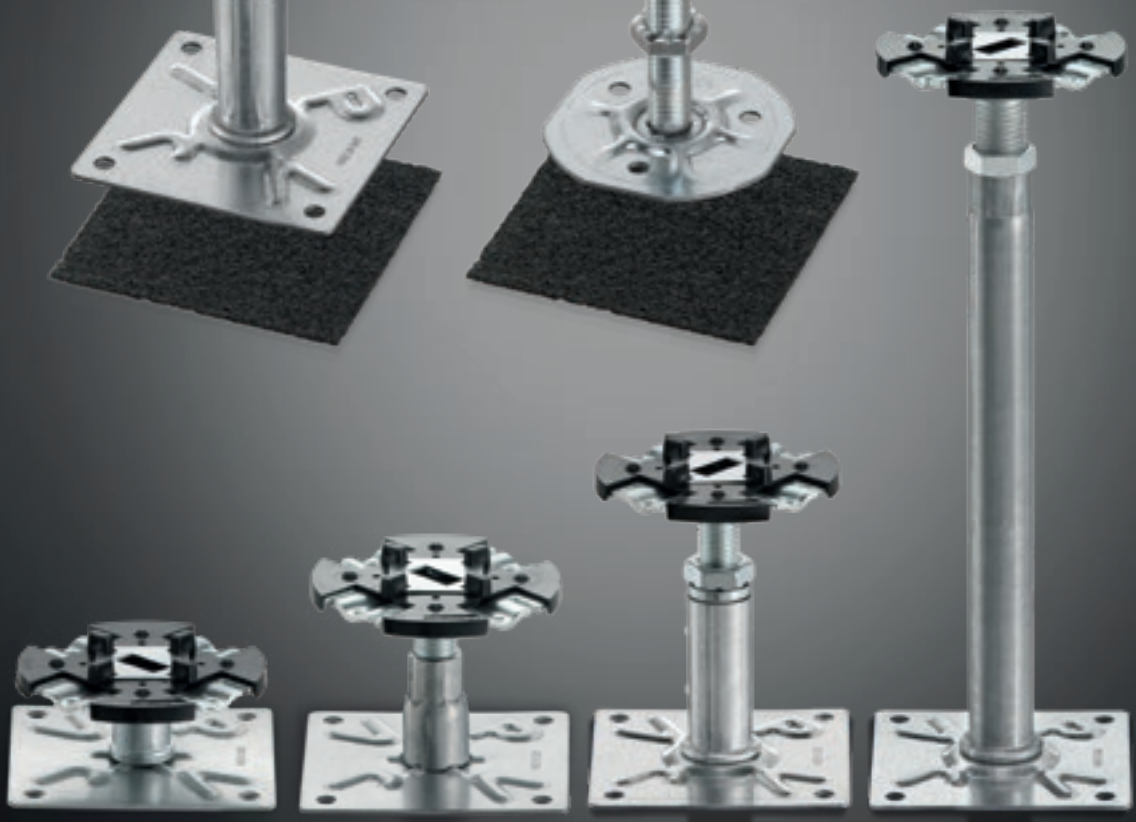
JSSU **JSSB** **JSSD**

4
seals

G374R, G372R, G324R e G322R

JVP JS **seals** can be used with all JVP JS feet, both the G37 equipotential conductive version and the one for G32 corner lock applications.
There is also a corner-lock solution for each JVP 4x4 panel allowing it to be screwed into the structure, further improving its performance even for anti-seismic protection.

Screw Down



Heights

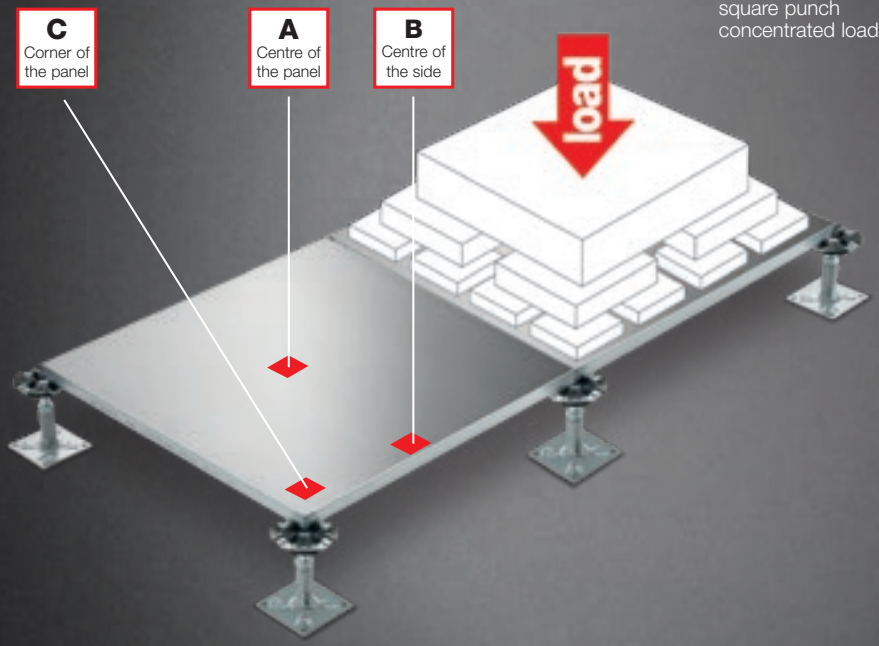
from **25mm**
to **1200 mm**
and beyond

JSEU JSEB JSED JSMD

Performances

A complete range with high mechanical performance

JVP 4x4 panels are fully protected by a galvanized steel capsule reinforced on all four corners, thanks to the combination of finished thickness, type and density of the inner core, with appropriate substructures, covering all performance requirements of the most commonly used international standards in the field (European harmonized standard UNI EN 12825, six grades of mechanical capacity, British Standard UK PSA MOB PF2, four classes of mechanical capacity).



25 x 25 mm
square punch
concentrated load

panels mm 600x600x

23mm

	FSC-certified chipboard core	gypsum fibreboard core	
standard	**C3TTL000**	**P3TTL000**	
UNI EN 12825* Mechanical capacity without cross-members	2/3,0/A/1	2/3,0/A/1	
PSA MOB PF2 SPU Mechanical resistance	Light Grade	Light Grade	

* EN12825 order and interpretation of standard data:
breaking load/safety coefficient/maximum bending/dimensional tolerances

For capacities and mechanical characteristics, certified according to **European Standard EN 12825**, **British Standard PSA MOB PF2/SPU** and **Australian Standards AS 4154 and 4155**.

JVP 4x4 panels are available with two different materials for the inner core, two thicknesses and four total densities, because not all floors need to provide the same level of performance.
Every use has its own technical requirements that must be taken into account in order to avoid design errors and waste in terms of costs, raw materials, transport costs, work for installers and maintenance technician and load on the floors.

panels mm 600x600x

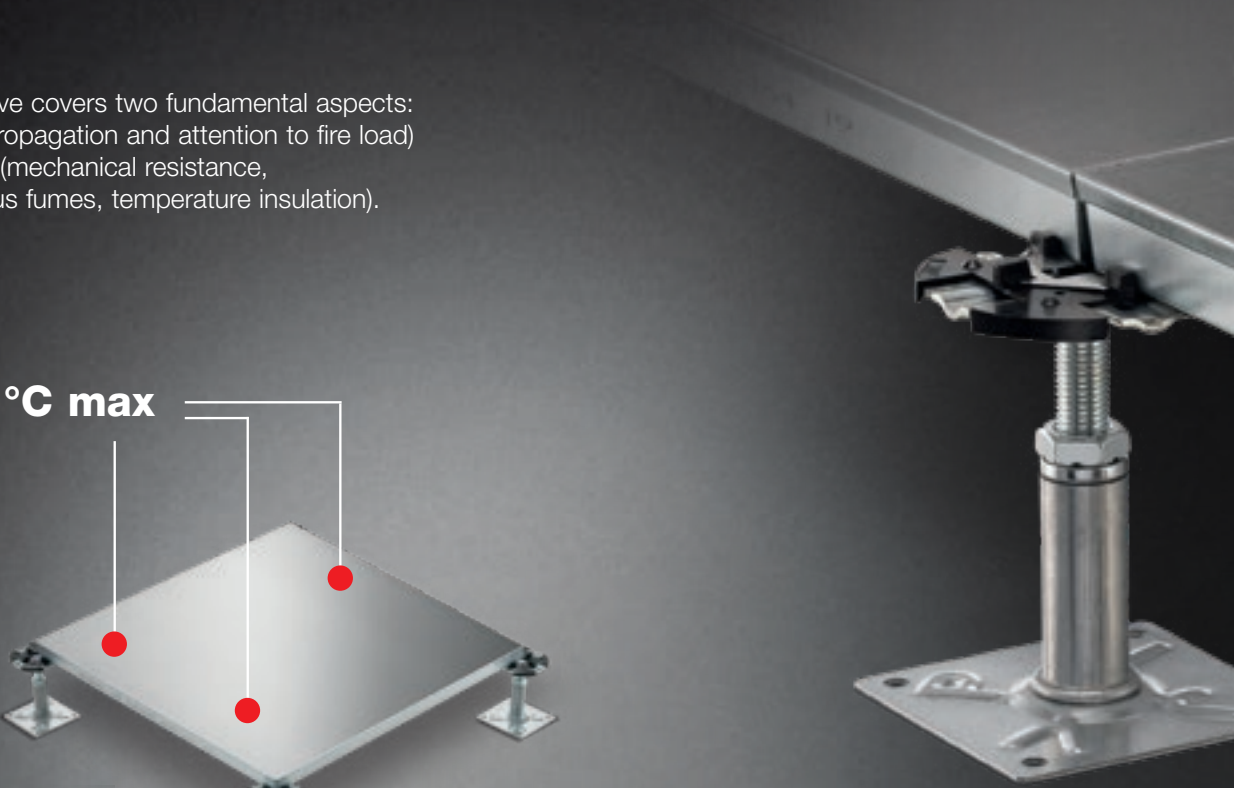
29mm

	FSC-certified chipboard core			gypsum fibreboard core	
	C4TTL000	**C5TTM000**	**C4TTM000**	**P4TTM000**	**P4TTH000**
	3/3,0/A/1	4/3,0/A/1	5/3,0/A/1	5/3,0/A/1	6/3,0/A/1
	Light Grade	Euro Grade	Medium Grade	Medium Grade	Heavy Grade

Fire

Certified fire reaction and resistance

The fire safety directive covers two fundamental aspects: **fire reaction** (non-propagation and attention to fire load) and **fire resistance** (mechanical resistance, emission of hazardous fumes, temperature insulation).



500°C

For fire reaction, certifications according to **European Standards EN 13501-1 and EN 13501-2 and British Standards BS 476-6 and BS 476-7.**

panels mm 600x600x

23mm

	FSC-certified chipboard core	gypsum fibreboard core
standard	**C3TTL000**	**P3TTL000**
UNI EN 13501-1:2007 **UNI EN 13501-1:2019 SBI EN 13823** **Reaction to fire**	Bfl-s1 B-s1-d0	A2fl-s1 n.a.
UNI EN 13501-2:2008 **Fire resistance**	REI 30r	REI 60r

Since most of the fire resistance is attributable to the slab, JVP believes that the right answer is to ensure safe evacuation of the building within the time calculated by the designer.

panels mm 600x600x

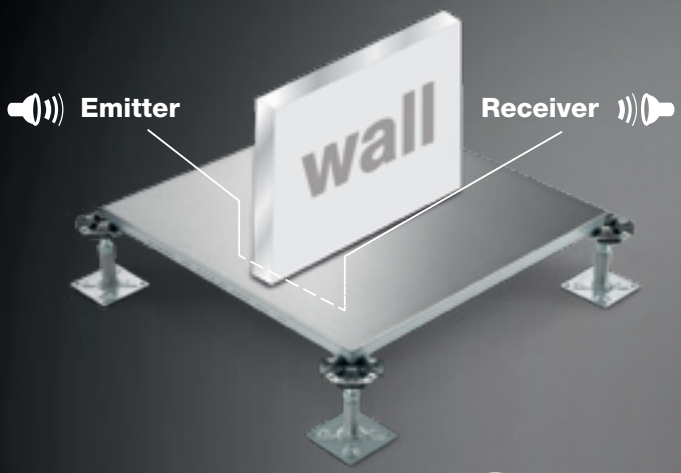
29mm

	FSC-certified chipboard core			gypsum fibreboard core	
	C4TTL000	**C5TTM000**	**C4TTM000**	**P4TTM000**	**P4TTH000**
	Bfl-s1 B-s1-d0	Bfl-s1 B-s1-d0	Bfl-s1 B-s1-d0	A1fl n.a.	A1fl n.a.
	REI 60r	REI 60r	REI 60r	REI 60r	REI 60r

Noise

Maximum sound pressure absorption

It is clear that acoustic abatement is no longer important only for the silence of an environment but it has been demonstrated that sound pressure is a risk to human health. That's why JVP has tested all its panels to ensure they absorb and do not transmit excessive sources of noise.



quiet

panels mm 600x600x

23mm

For noise behaviour,
European Standards EN 140-8 and EN 140-12 certified

	FSC-certified chipboard core	gypsum fibreboard core
standard	**C3TTL000**	**P3TTL000**
UNI EN 140-12 UNI EN 717-1 Airborne sound	Dn,f,w 38 dB	Dn,f,w 38 dB
UNI EN 140-12 UNI EN 717-2 Impact sound	Ln,f,w 71 dB	Ln,f,w 70 dB
UNI EN 140-8 Interstorey noise with acoustic pad	ΔI,w 20 dB	ΔI,w 21 dB

panels mm 600x600x

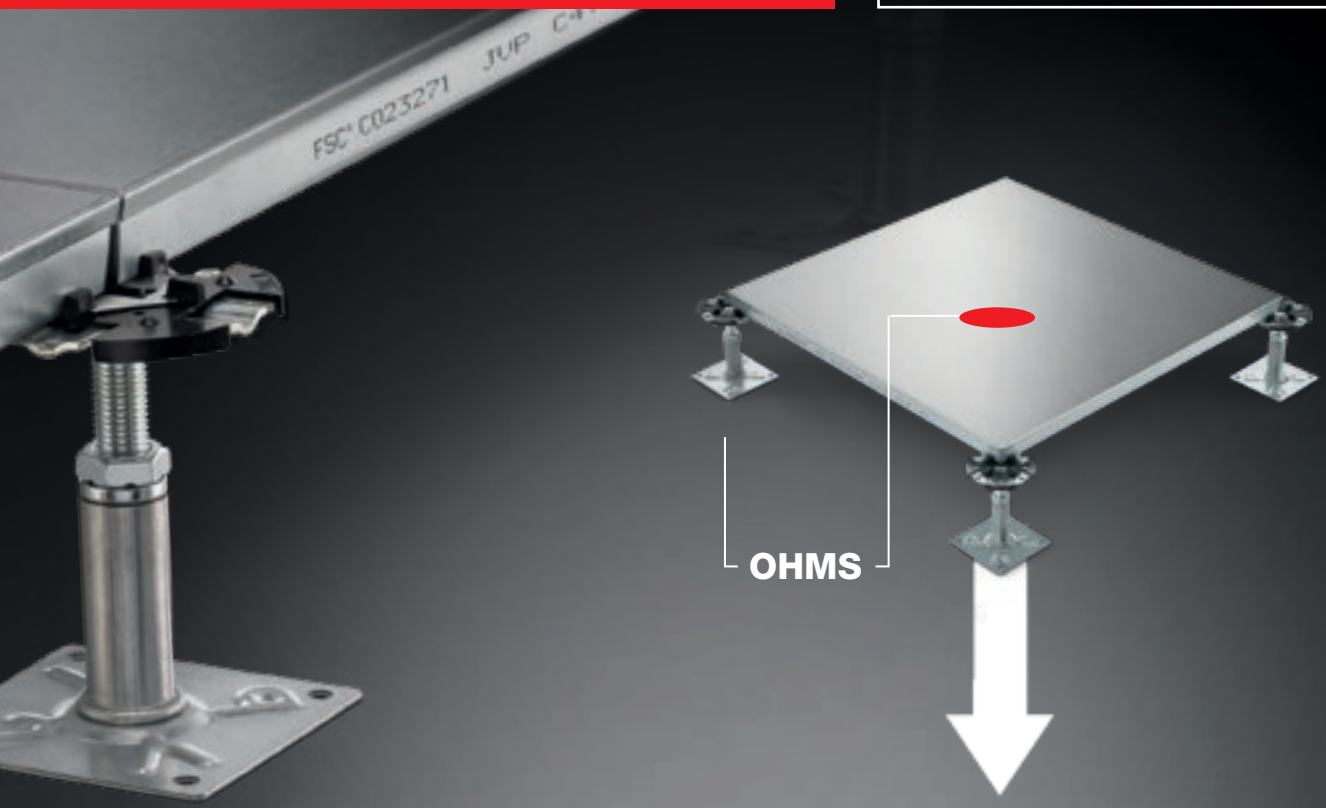
29mm

	FSC-certified chipboard core			gypsum fibreboard core	
	C4TTL000	**C5TTM000**	**C4TTM000**	**P4TTM000**	**P4TTH000**
	Dn,f,w 42 dB	Dn,f,w 46 dB	Dn,f,w 46 dB	Dn,f,w 50 dB	Dn,f,w 50 dB
	Ln,f,w 68 dB	Ln,f,w 69 dB	Ln,f,w 69 dB	Ln,f,w 67 dB	Ln,f,w 67 dB
	ΔI,w 21 dB	ΔI,w 21 dB	ΔI,w 21 dB	ΔI,w 23 dB	DI,w 23 dB

All JVP 4x4 panels are fully encapsulated in galvanized steel sheets, and are perfectly conductive regardless of the nature of the materials comprising the core, meaning that the metal contact of the sheets guarantees complete equipotentiality at any point. The same is true of the supports on which the panels rest thanks to the equipotential seals.

Perfect conductivity in total safety

Safety **in use**



earth

All this guarantees perfect conductivity for the entire system, which simply requires a suitable connection to the equipotential grounding systems of which each building must be equipped, according to the above European regulations.

Therefore, JVP's system is capable of discharging to ground sockets with impedances of less than 0.5 Ohm, when a ground connection is established between a support base and the unit surface required by the project, according to electrical safety calculations.

Thus, the electrical characteristics of the chosen surface coverings can be respected and best emphasized; the limits will obviously be those guaranteed by the suppliers.

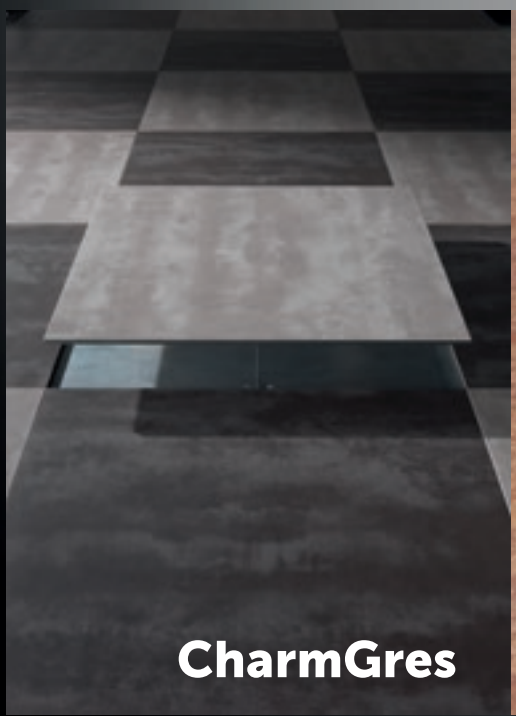
Self-laying finishes

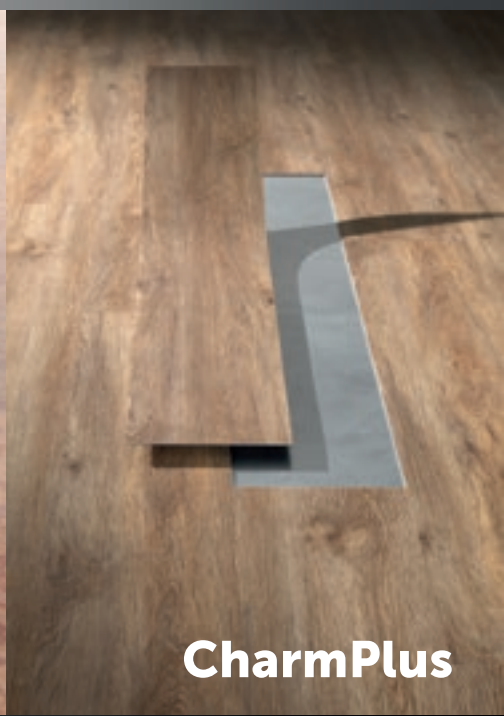
Today, we offer an extensive range of self-laying finishes that are applied just prior to building occupation.
In addition to our already well-tested carpeted, rubber and PVC coverings, an exclusive technology developed by JVP allows us to offer very thin ceramics, granite, marble, reconstituted Venetian terrazzo and even natural wood. All our coverings are self-laying with no size, design or composition constraints. For each finish, the laying system can also be magnetic, requiring no adhesive, the fruit of our exclusive CharmFloor project. Customer can choose the quality, appearance and type of flooring they want, even just a short time before entering the premises, and pay for the coverings only when they are installed, certain their floor is completely new and not damaged by construction operations.
Then, at a later date, if customers want to refresh or modify the look of their spaces, the entire raised floor does not need to be replaced, but only its surface finish.

CHARM FLOOR is a tredmark of JVP

charmfloor.com

Finishes



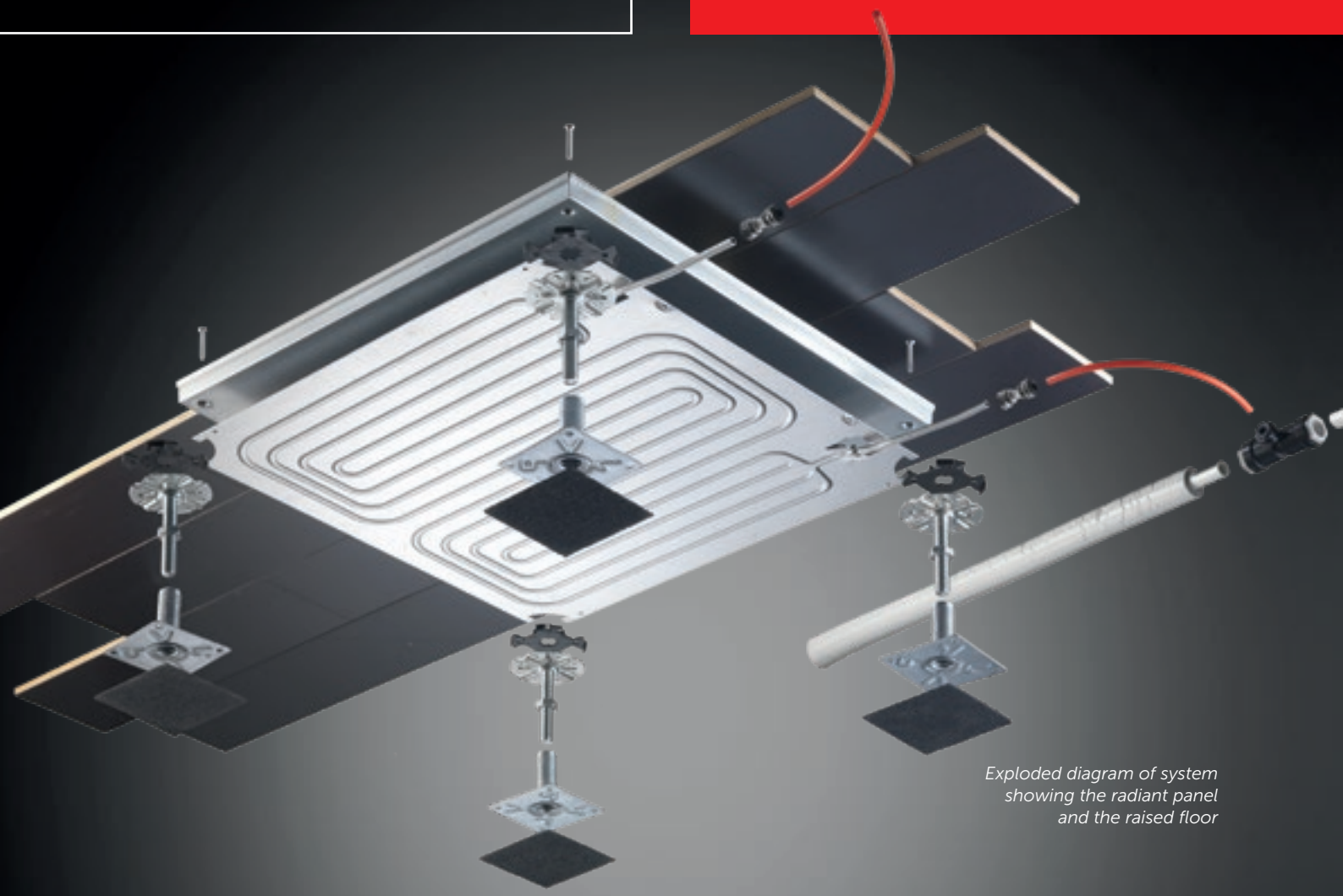


CharmMetal

CharmWood

CharmKlima

The hydronic radiant system



Exploded diagram of system showing the radiant panel and the raised floor

These **unique radiant panels feature Climabond**® technology and are **completely independent of the raised floor structure**, merely resting on its supports. Thanks to a surface film consisting of thermoplastic resin and magnetically charged ferrite, they adhere snugly to the underside of the steel floor panels, guaranteeing perfect thermal conductivity. Special piping and dedicated connectors permit the circulation of heat transfer fluid through the radiating circuit at a controlled temperature to achieve the required heating or cooling function.

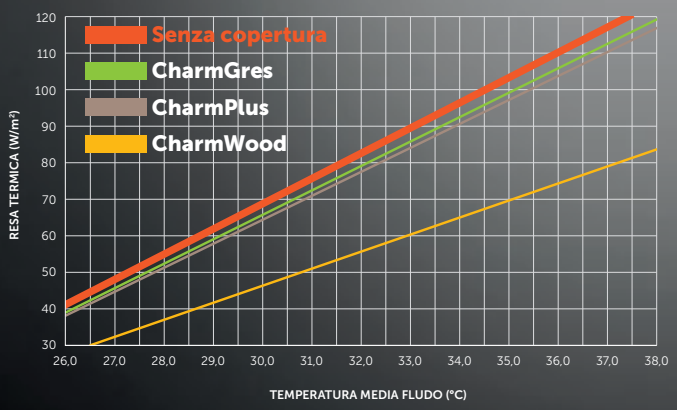
The **CharmKlima** system occupies very little space and is entirely contained within the underfloor plenum along with other building systems. The system is installed **after the floor as such, making it easily accessible and removable, re-usable and recyclable**.
CharmKlima radiant panels can be distributed as required and moved at any time to suit new interior layouts and to optimise energy consumption.

Magnetised radiant floor panels measurements:
600x600 mm / 600x1200 mm

TECHNICAL CHARACTERISTICS: **HEATING AND COOLING**

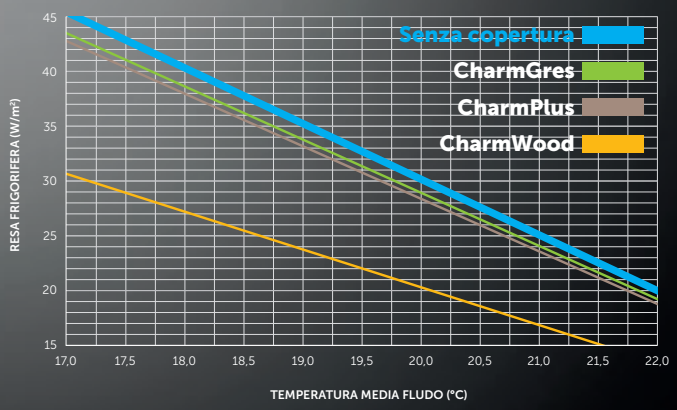
Thermal efficiency in heating and cooling modes: system comprising 600x600 mm or 600x1200 mm radiant panels and raised floor panels with a 22 mm thick gypsum fibreboard core encapsulated in 0.40 mm thick steel sheet. The raised floor used for calculations is understood to be without surface coverings.

RESA TERMICA CharmKlima®

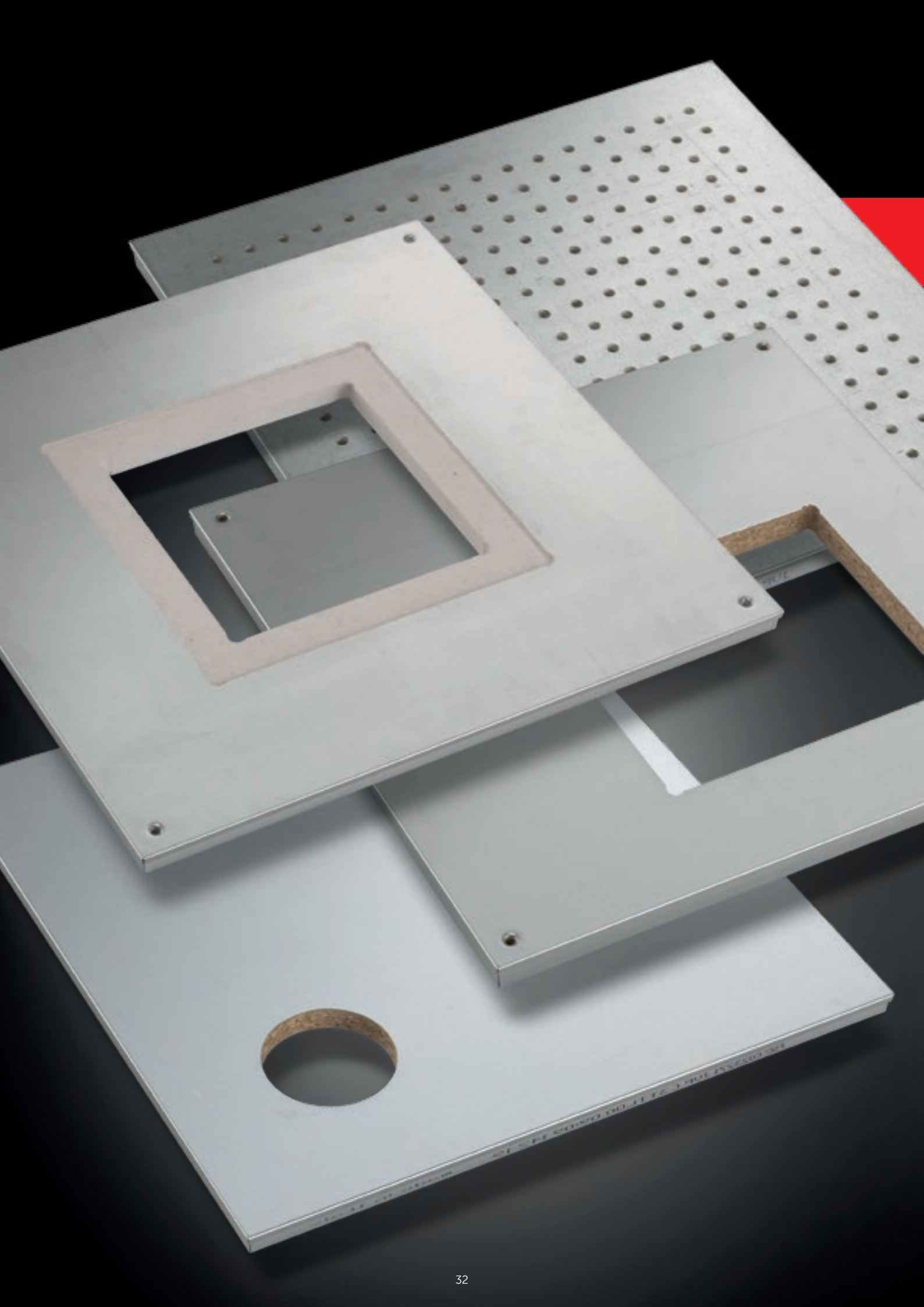


For panels with a 28 mm gypsum fibreboard core, the delivery temperatures shown in the table must be increased by 7%.
For panels with a 22 mm chipboard core, the delivery temperatures shown in the table must be increased by 39%.
For panels with a 28 mm chipboard core, the delivery temperatures shown in the table must be increased by 46%.

RESA FRIGORIFERA CharmKlima®



For panels with a 28 mm gypsum fibreboard core, the delivery temperatures shown in the table must be reduced by 5%.
For panels with a 22 mm chipboard core, the delivery temperatures shown in the table must be reduced by 32%.
For panels with a 28 mm chipboard core, the delivery temperatures shown in the table must be reduced by 38%.



Infinite custom solutions

Accessories

JVP 4x4 systems do not have specific accessories because our customer's demands and specific needs determine the possible answers and customized solutions that we have developed over the years through the management of many projects, diversified according to each technical approach and markets around the world.

When the plenum must be sealed under pressure, **air-seal processing involves** the application of a self-adhesive seal around the perimeter of the panels, sealing off any joints.

For the outlet of systems from the plenum there are **holes of every shape and size**, cut to measure to receive socket boxes and concealed towers of the most popular international brands.

For the passage of air from the plenum to the environment there are perforated panels or coupling and adapting systems for adjustable grids.

JVP is here as well

Concepts are more valuable when they become tangible realities

Milano • Italia

Padova • Italia

In the global village that is today's world market, JVP challenges its skills and capabilities daily. From Europe to the Far East, from the Americas to Australia, from the Middle East to India, JVP product installations seek to respect the common uses of the system, aiming to provide total customer satisfaction.

Each geographical area has its own special needs in the use of raised floors: climatic conditions, mechanical performance, fire safety, noise reduction and energy saving are perhaps the most important.
JVP seeks an appropriate response to the local demands and designer's needs by evaluating the specific characteristics and proposing the systems that best meet them.

Genova • Italia

Oderzo • Italia

Losanna • Svizzera

Milano Rho • Italia

Maranello • Italia

Roma • Italia

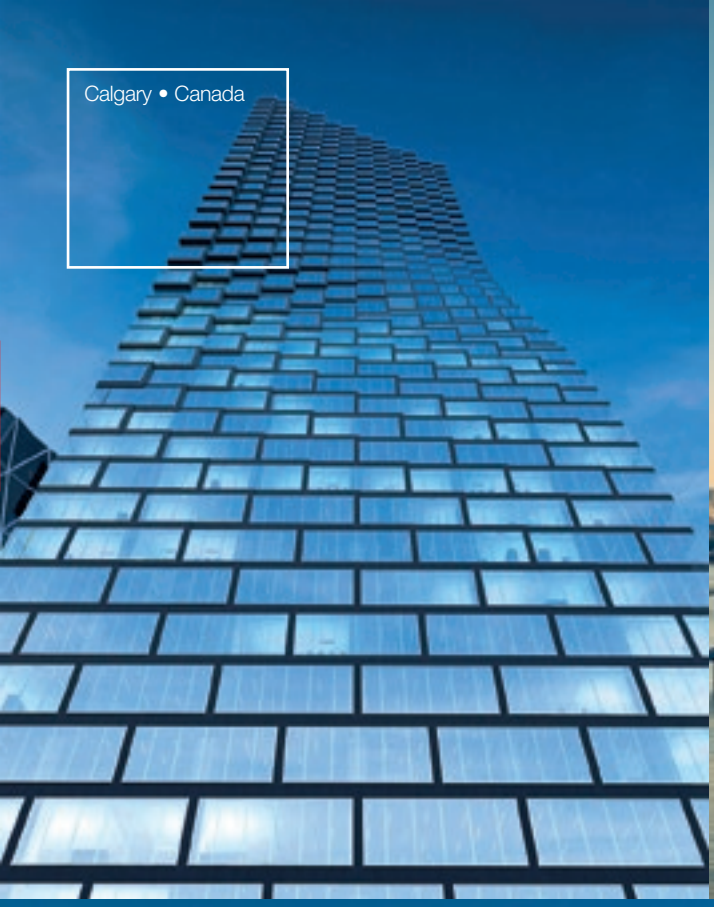
JVP is here as well

Concepts are more valuable when they become tangible realities

Minsk • Bielorussia

Barcellona • Spagna

JVP produces raised floors. We do not install the systems housed under them.
We are committed to adapting panels to demands, but depend on a selected network of distributors and installers to install them.
They are our hands on the market, our means to attaining customer satisfaction, the reality of transforming the product into a system, the source and recipients of international experiences.
JVP's Quality Control procedure requires that distributors and installers be approved based on their professionalism, seriousness, technical capabilities, attention and customer care through service-oriented management.


Calgary • Canada


Londra • Gran Bretagna


Bruxelles • Belgio


Bucarest • Romania


Mosca • Russia


Sydney • Australia

JVP

Raised access floor
Pavimento **sopraelevato**
accessibile

www.jvph.net

All technical data contained in this brochure are indicative only, we reserve the right to change specs without notice.