

POLYSPORT IMPACT WALLS



WHO WE ARE

WE HAVE BEEN AN
INNOVATIVE PARTNER
FOR THE CONSTRUCTION OF SPORTS HALLS
ACROSS EUROPE FOR
MORE THAN 40 YEARS

YOUR NO.1 IN EUROPE FOR THE INTERIOR DESIGN OF SPORTS HALLS

POLYSPORT guarantees the very highest levels of performance with an extensive network of partners specialising in sports hall construction in Germany and other European countries. Each individual component is selected for its quality and its properties are inspected in advance. Each and every day we live up to the high standards we set ourselves for the manufacture of sports flooring, impact walls and acoustic elements.

OUR CLAIM



HIGHEST SAFETY STANDARDS

The components used in POLYSPORT systems are selected based on safety-re-levant specifications to protect users from dangerous substances. Selected impact wall systems are tested and classified for both fire behaviour as well as emissions.



OPTIMUM PERFORMANCE

Our impact wall solutions meet the highest protective standards, making them optimally suited to the athlete's needs. As a parameter of a system's protective function, the force reduction of our impact walls of at least 60% places them within the highest required range. We ensure that our products are durable and robust in use by inspecting the impact resistance and ball impact safety in the system in accordance with DIN 18032-7.



CERTIFIED QUALITY

All key properties concerning the emissions of impact walls are measured not only at the start of their service life, but are also subject to annual external inspections. Trained partner companies guarantee flawless installation of the POLYSPORT systems.

POLYSPORT IMPACT WALLS 4 POLYSPORT IMPACT WALLS







INDIVIDUALLY TAILORED TO EVERY PROJECT

The impact wall modules and the installation elements are manufactured in our production facility and individually tailored to each project. Detailed sections for e.g. openings for sports equipment or inspection flaps, or custom openings for doors and gates, can be planned and manufactured in advance on request to ensure quick and smooth installation. Our after-sales service boasts high levels of customer satisfaction.

Installation is performed exclusively by a specially trained POLYSPORT partner or with close technical support based on construction plans specific to the property in question.

POLYSPORT systems fulfil the specifications for force reduction as well as ball impact safety and impact resistance pursuant to DIN 18032-7. POLYSPORT offers system solutions with TÜV certification.

POLYSPORT IMPACT WALLS 1

IMPACT WALL **TABLE** OF REQUIREMENTS

	POLYSPORT MPW	POLYSPORT FPW	POLYSPORT SPW
ELASTIC TYPE	Area-elastic	Area-elastic	• Area-elastic
ELASTIC LAYER	• Wooden swing beam	Spring system	Spring system
CONSTRUCTION	High-quality multiplex strips	High-quality multiplex strips	• Steel tubes
MINIMUM INSTAL- LATION DEPTH	• 78 mm	• 66 mm	• 78 mm
INSTALLATION	Complex installation Specialised companies	Complex installation Specialised companies	Complex installation Specialised companies
SURFACES	Wooden materials or Silence	Wooden materials or Silence	Wooden materials or Silence
PRICE		/ ///	
SERVICE LIFE			

Impact walls made from wood and in sports halls for many years. These exhibit a wide variety in the range of colours and design. Apart from this, they mainly differ in terms of their type - while impact walls based on

wooden- or Silence panels and glass textiles have been successfully used elements are area-elastic impact walls constructed on a spring-loaded, supported or shock-pad-damped substructure, point-elastic textile impact walls or Silence 25_3000 are bonded technical parameters and installation directly to the existing substructure.

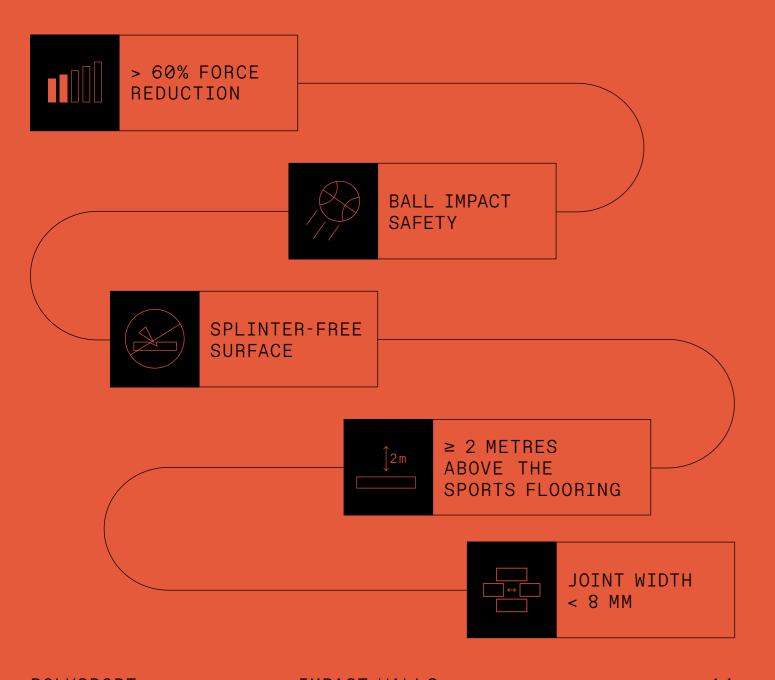
POLYSPORT GLASS	POLYSPORT FPX	POLYSPORT SILENCE	POLYSPORT TEXTILE
• Area-elastic	• Area-elastic	Point-elastic	• Point-elastic
Spring system	• Foam pads	Polyester fibres	• Foam
• Freely selectable	High-quality multiplex strips	Directly on the substrate	Directly on the substrate
Installation variable/ optional	• 42 mm	• 25 mm	• Approx. 20 mm
Complex installationSpecialised companies	Complex installation Specialised companies	Simple installation	Simple installation
• Glass	• Wooden materials	Polyester panels in different colours and digitally printed designs	Selected textures and colours
	/	// //	////
	1	SILENCE	

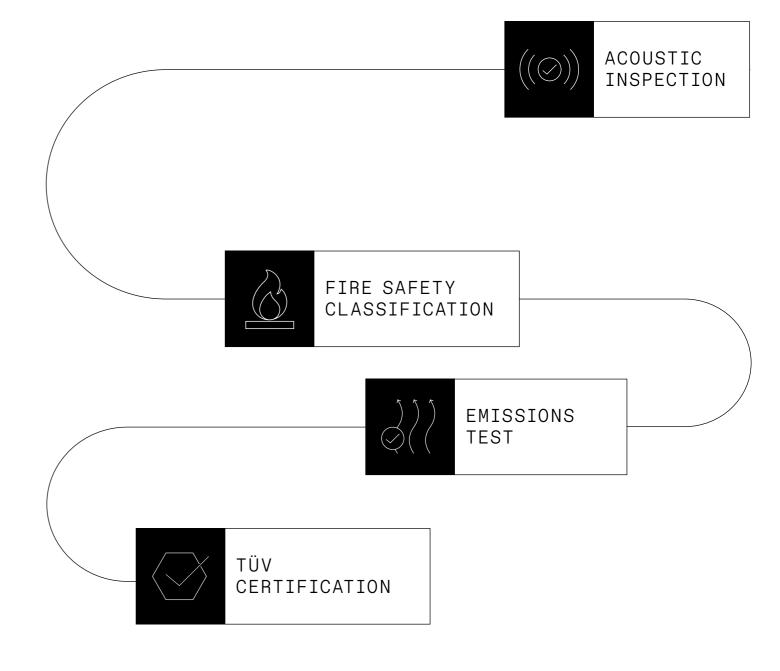
IN ADDITION TO THEIR EXCELLENT PROTECTIVE FUNCTIONALITY, THE HIGH-QUALITY POLYSPORT SILENCE ACOUSTIC PANELS ALSO FEATURE OPTIMUM ACOUSTIC PROPERTIES WITH ULTRA-LOW EMISSIONS AND A HIGH FIRE SAFETY CLASSIFICATION - AVAILABLE IN ANY DESIGN THANKS TO DIGITAL PRINTING TECHNOLOGY.

IMPACT WALLS 12 **POLYSPORT POLYSPORT** IMPACT WALLS 13

THE BACKBONE OF THE IMPACT WALL - SPECIFICA-**TIONS AND PARAMETERS**

The primary concern is the protection of the athlete and the durability of the impact wall as a result of its multiple uses in the sports hall. These are ensured by measuring force reduction, impact resistance and ball impact safety in the system pursuant to the specifications of DIN 18032 part 7.





POLYSPORT SILENCE MEETS ALL OF THE ABOVE SPECIFICATIONS.

HIGH PERFORMANCE

In addition to their protective function, high standards in terms of emissions, which is measured via force redution. impact walls also need to meet high tion for internal areas also need to be standards in terms of ball impact safety and impact resistance for deployment in sports halls. In addition to guaranteeing the protection of the athlete and the robustness/durability of the impact wall, increasingly

acoustics and fire safety classificamet. Additionally, ever more design requirements are encountered on the planning side as customers seek to take advantage of eye-catching concepts for the unbound joy of sports.

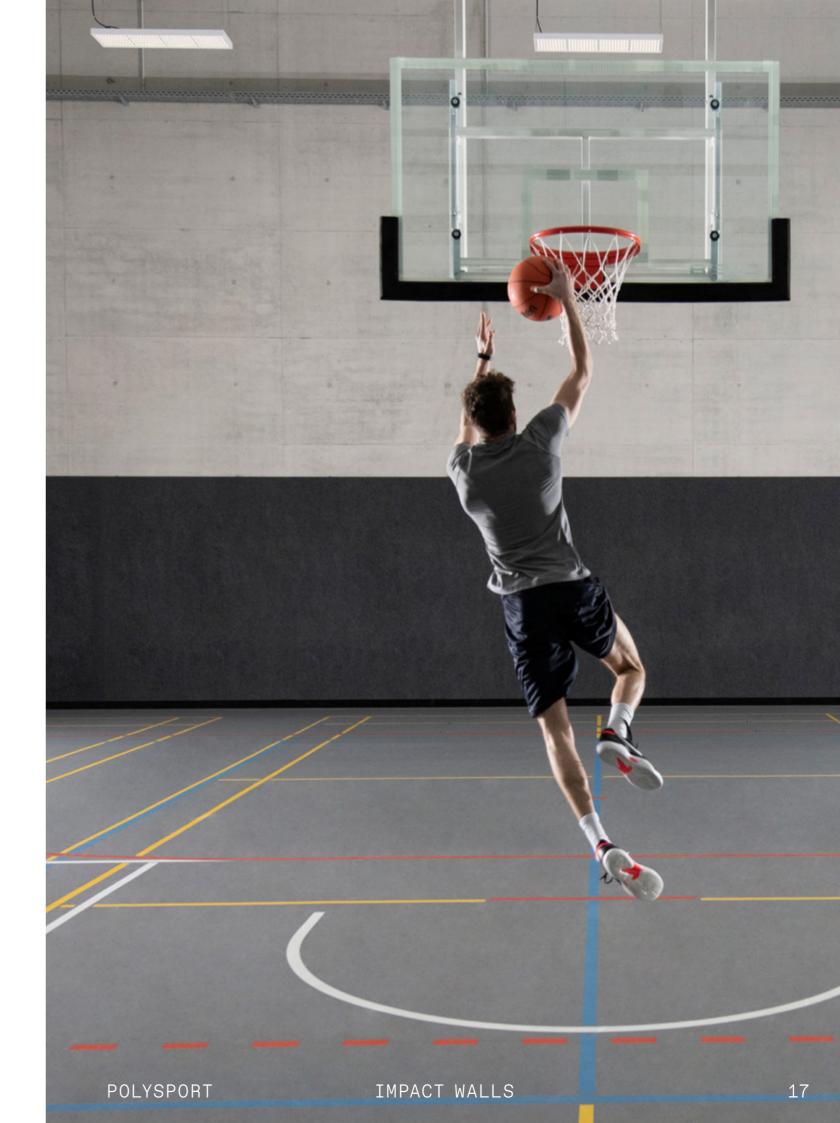
POLYSPORT IMPACT WALLS 14 **POLYSPORT** IMPACT WALLS 15

WE CONSIDER IMPACT WALLS, SPORTS EQUIP-MENT AND INSTALLA-TION ELEMENTS AS A WHOLE

In addition to an attractive aesthetic, a functionally sound integration of installation elements and a wide range of sports equipment into the wall systems are central to an optimally harmonised sports hall concept.

That is why we at POLYSPORT consider impact walls, sports equipment and installation elements as a whole from the planning phase onwards. The impact wall systems can be fitted with a wide range of surfaces to satisfy the customer's specific wishes and acoustic requirements.

POLYSPORT can use wood, textile or glass for the top layer to create all manner of variations.



POLYSPORT IMPACT WALLS 16



IMPACT WALL SYSTEMS



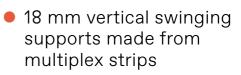
POLYSPORT IMPACT WALLS 20 POLYSPORT IMPACT WALLS 2

SILENCE POLYSPORT SILENCE CONSTRUCTION • 25 mm minimum thickness • Force reduction > 60% Optionally with substructure ELASTIC DESIGN LAYER PLAIN COLOURS PERFORMANCE HIGH LIMITLESS FIRE-NOISE ABSORPTION DESIGN RESISTANT OPTIONS 22 POLYSPORT IMPACT WALLS IMPACT WALLS 23 POLYSPORT





POLYSPORT **FPW**



- 21 mm steel compression spring
- 60 mm minimum thickness

SUB CONSTRUCTION

• Force absorption > 60%









PERFORMANCE





HIGH ROBUSTNESS



LIMITLESS DESIGN OPTIONS

PERFORMANCE



HIGH PROTECTIVE FUNCTION



DESIGN

HIGH ROBUSTNESS

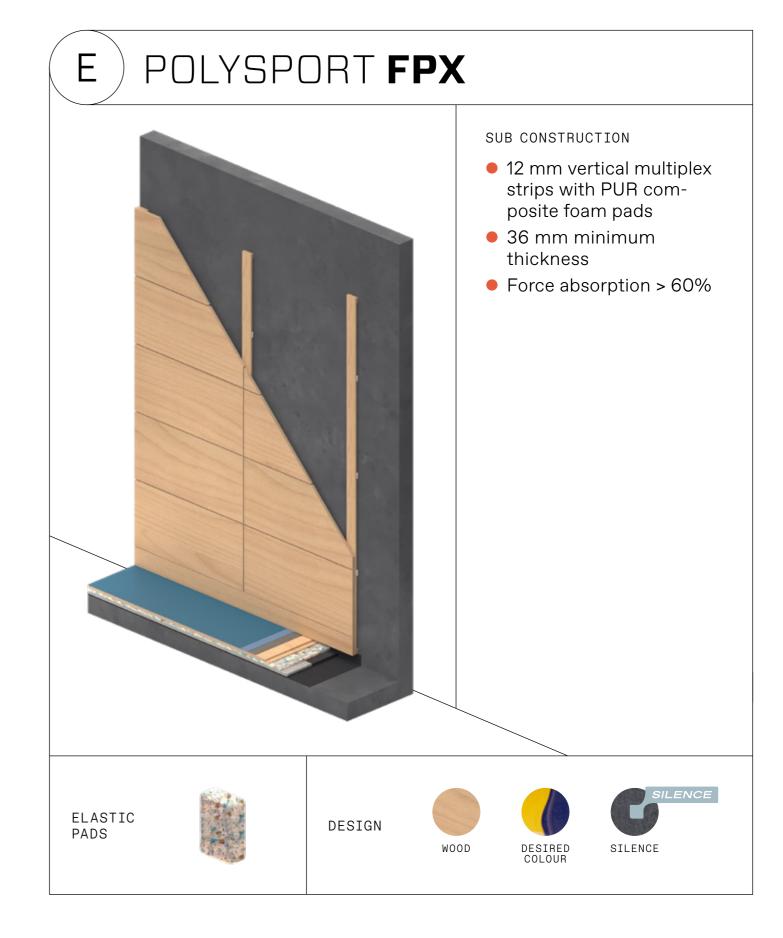


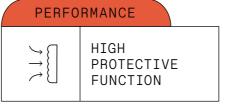
LIMITLESS DESIGN OPTIONS

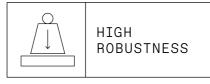


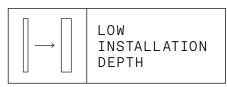














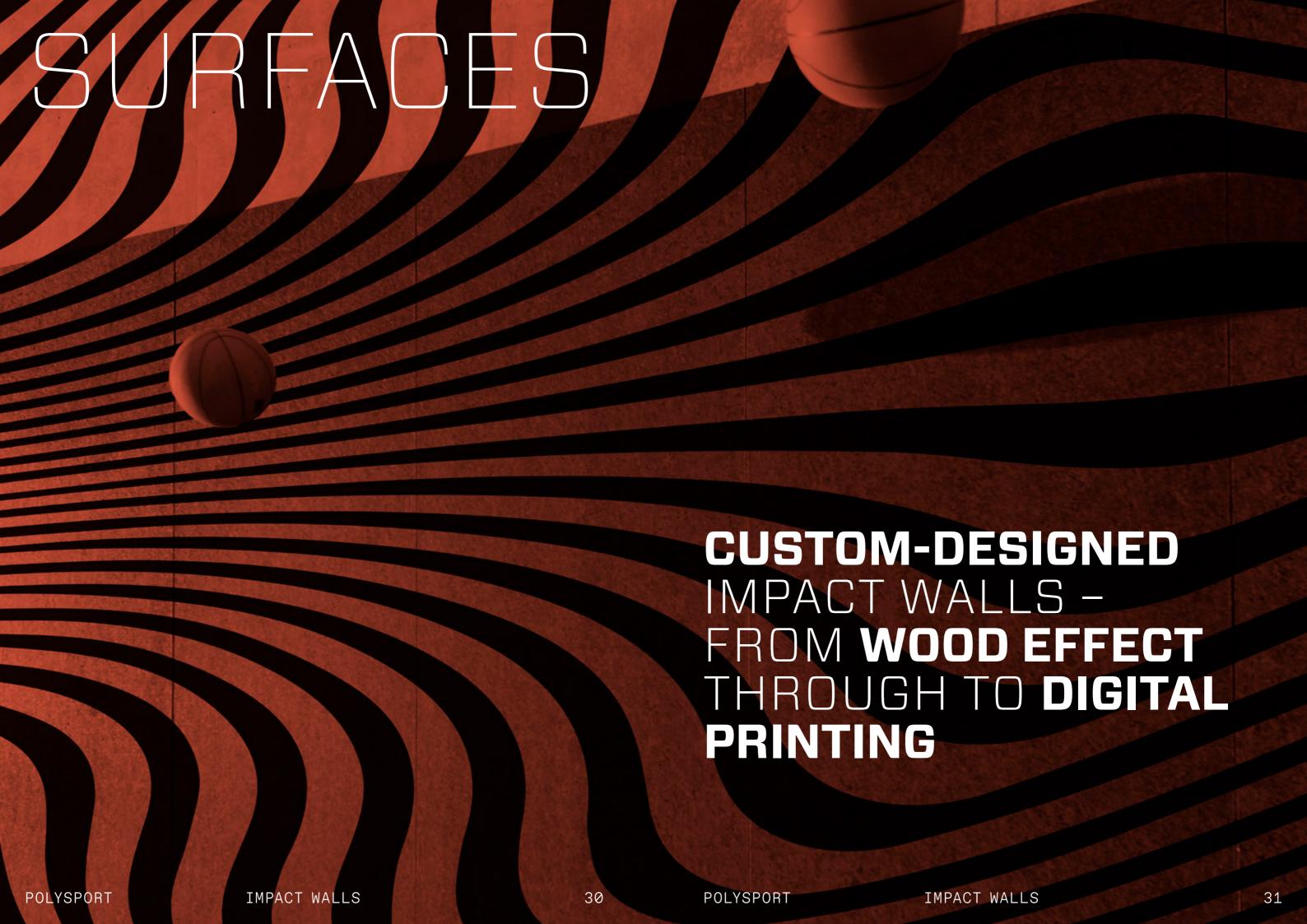


PERFORMANCE





HIGH ROBUSTNESS



SURFACECOMPARISON

Alongside their protective properties, impact walls should also look the part for your sports hall. At POLYSPORT you can choose from a wide range of surfaces for the impact wall depending on the substructure. From the almost unlimited design options of the POLYSPORT Silence impact wall through a range of wood veneers, lacquered wooden surfaces or glass – have a browse:



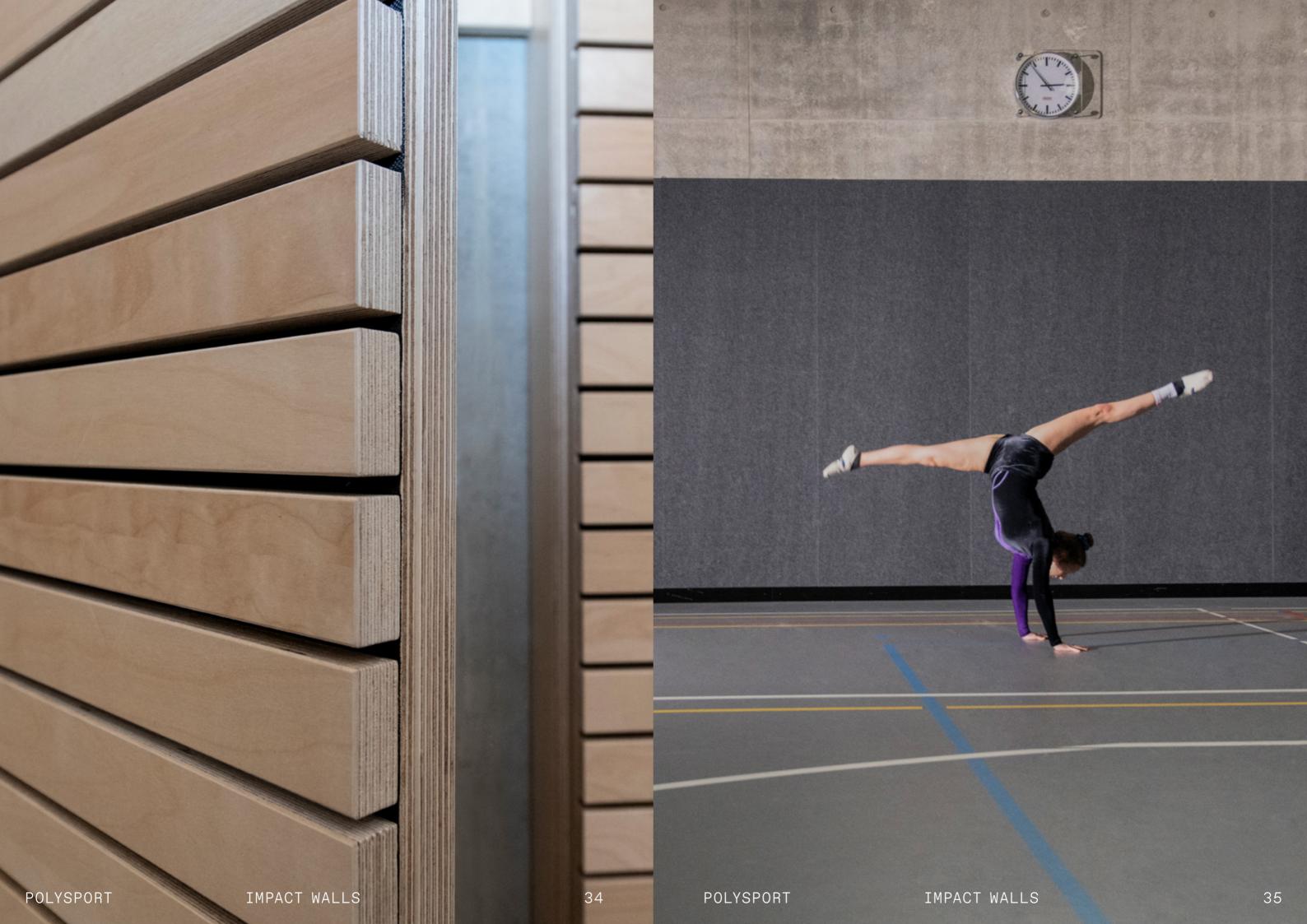




ALL COLOURS POSSIBLE

Installation is performed exclusively by a specially trained POLYSPORT partner. All POLYSPORT systems satisfy DIN specifications.

POLYSPORT IMPACT WALLS 32 POLYSPORT IMPACT WALLS 33

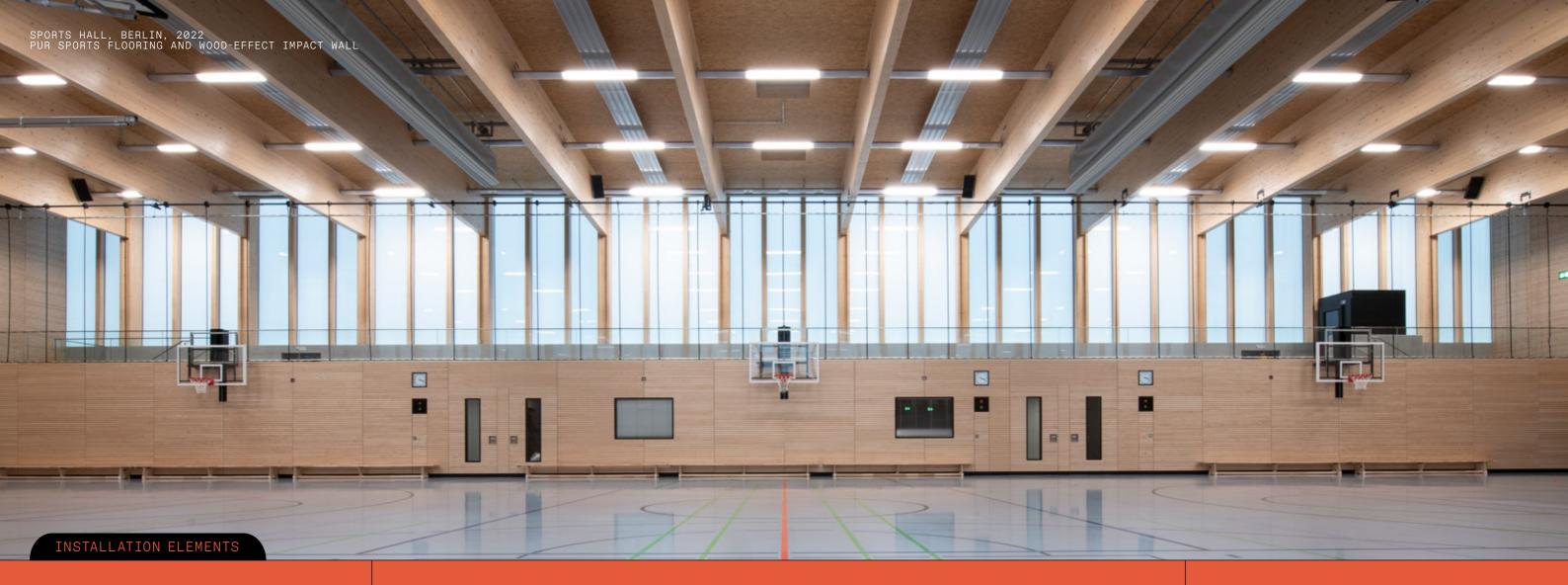






CLOSE COLLABORATION WITH THE BEST – HIGHEST QUALITY IS OUR STANDARD

Alongside the wide range of protective functions and designs, POLYSPORT impact wall systems also offer customised and harmonised solutions for the installation elements that are integrated into the impact wall. From equipment room gates through access doors and revolving doors for sports halls up to fire and smoke-protection doors, POLYSPORT offers a wide range of opportunities for adding custom installation elements to your project.



EQUIPMENT ROOM GATES

- CE certification pursuant to DIN EN 13241-1
- TÜV-certified drop guard

SPORTS HALL INTERIOR DOORS

- Steel or steel-glass construction with area-elastic baffle function
- Optional panic and full-panic function pursuant to DIN EN 179

SPORTS HALL EXTERIOR DOORS

- All-round structural connection (pursuant to DIN 18531)
- Optional panic and full-panic function pursuant to DIN EN 179
- Optional magnet and bolt switch contacts (for connection to building's intruder alarm)

SPORTS HALL FIRE PROTECTION DOORS

• with general building inspectorate approval (DIN 4102)

SPORTS HALL SMOKE PROTECTION DOORS with general building-regulation Test certificate (DIN 18095)

- Robust steel stop profile tube construction with welded hinges
- Smoke-proof light cut-outs and skylights in various designs and dimensions also with surface-elastic baffle function possible
- Optional panic and full-panic function pursuant to DIN EN 179

CONTROL ROOM WINDOW ELEMENTS

• Execution in front of separate fire-resistant window with side-hung sash fitting

SPORTS HALL REBOUND BOARDS

 Execution as steel-glass construction with area-elastic impact wall function or closed with impact protection or wooden impact protection covering

SPORTS HALL REVOLVING DOORS

- Single-sash execution in front of climbing ropes, ring facilities, variable climbing apparatuses/swings, climbing poles and extendible wall bars
- Double-sash execution in front of fixed wall bars, climbing poles and lattice systems, bouldering walls, etc.

SPORTS HALL INSPECTION DOORS

- Hinges suitable for sports halls, also available as a concealed-hinge construction with opening angle of 90°/180°
- Lockable version and cable outlet possible

SPORTS HALL DIVIDING WALL ELEMENTS

- Division of equipment or control rooms, indoor shoe area, etc.
- Complete steel-glass constructions with area-elastic impact wall function

MOBILE IMPACT WALL ELEMENTS/ MODULAR STAGE

• Integration of underfloor storage carts

FOLDING STAGE CONSTRUCTIONS

- The folding elements as a forestage
- Integration of underfloor storage carts

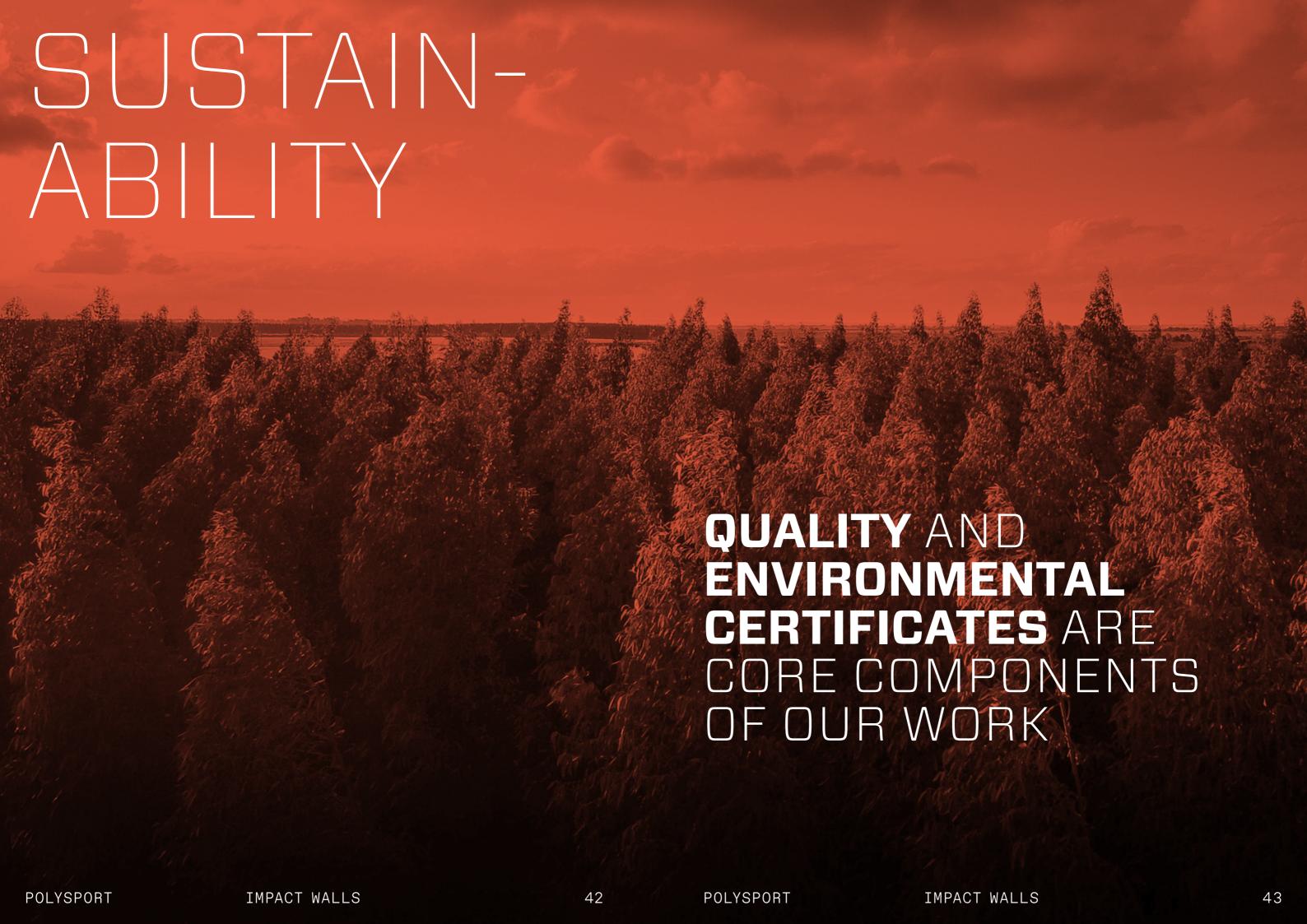
AREA-ELASTIC GLASS IMPACT WALLS

- Version with all-round steel frame or with glass point holders
- Special pivoting sashes can be opened for inspection and cleaning purposes

ALL INSTALLATION ELEMENTS

Ball-impact-safe, also with area-elastic impact wall function

POLYSPORT IMPACT WALLS 40 POLYSPORT IMPACT WALLS 41



WE TAKE

RESPONSIBILITY

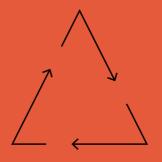


INGREDIENTS

There is a direct link between the impact walls selected and health. The impact walls make up a large part of the surfaces in the sports hall and strongly influences the quality of the air. What matters most to us is people's well-being, which is why our materials are low-emission and free from VOCs and plasticisers. We work exclusively with controlled ingredients which are conducive to good health and are inspected on an ongoing basis.

RECYCLING

We want our sustainability strategy to be about more than 'just' futureproofing our own products. For that reason, our products consist of up to 60% renewable materials such as plywood, natural oils, mineral-based fillers and a large share of recycled components such as polyester fibres for acoustic panels and acoustic insulation. We are also in the process of increasing the proportion of recycled ingredients further to demonstrate our responsible management of resources and the environment.





ROBUST AND DURABLE

The components we use are selected in accordance with the highest quality standards to ensure the durability of our products across the total life cycle due to the increasing strain they are exposed to. We also consider renovation options that are gentle on the environment and energy-saving, which additionally have a positive influence on the life cycle costs.

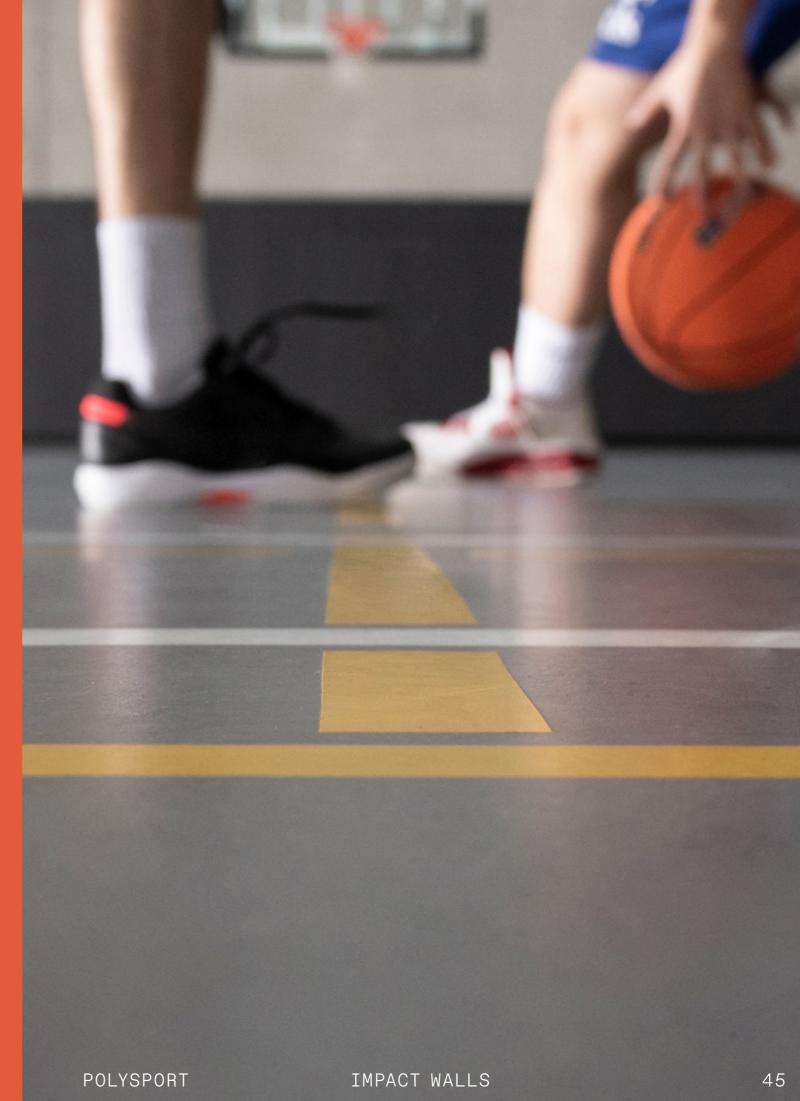
CERTIFICATION

Certainty for owners and planners thanks to the independent inspection and certification of our products. That means continuous monitoring of the products for harmful substances to guarantee quality and protection from product risks.





Das Zeichen für verantwortungs



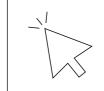
POLYSPORT IMPACT WALLS



THE **POLYSPORT** RANGE

- Sports flooring
- Point- and area-elastic impact walls
- Certified installation elements like gates and doors
- Acoustic solutions for ceiling and wall

We will be happy to provide you with no-obligation advice on interior planning for your sports hall or to send you our portfolio.



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