



SIKA SYSTEM SOLUTIONS BATHROOM PODS

BUILDING TRUST





MODULAR BUILDING AT THE HIGHEST LEVELS

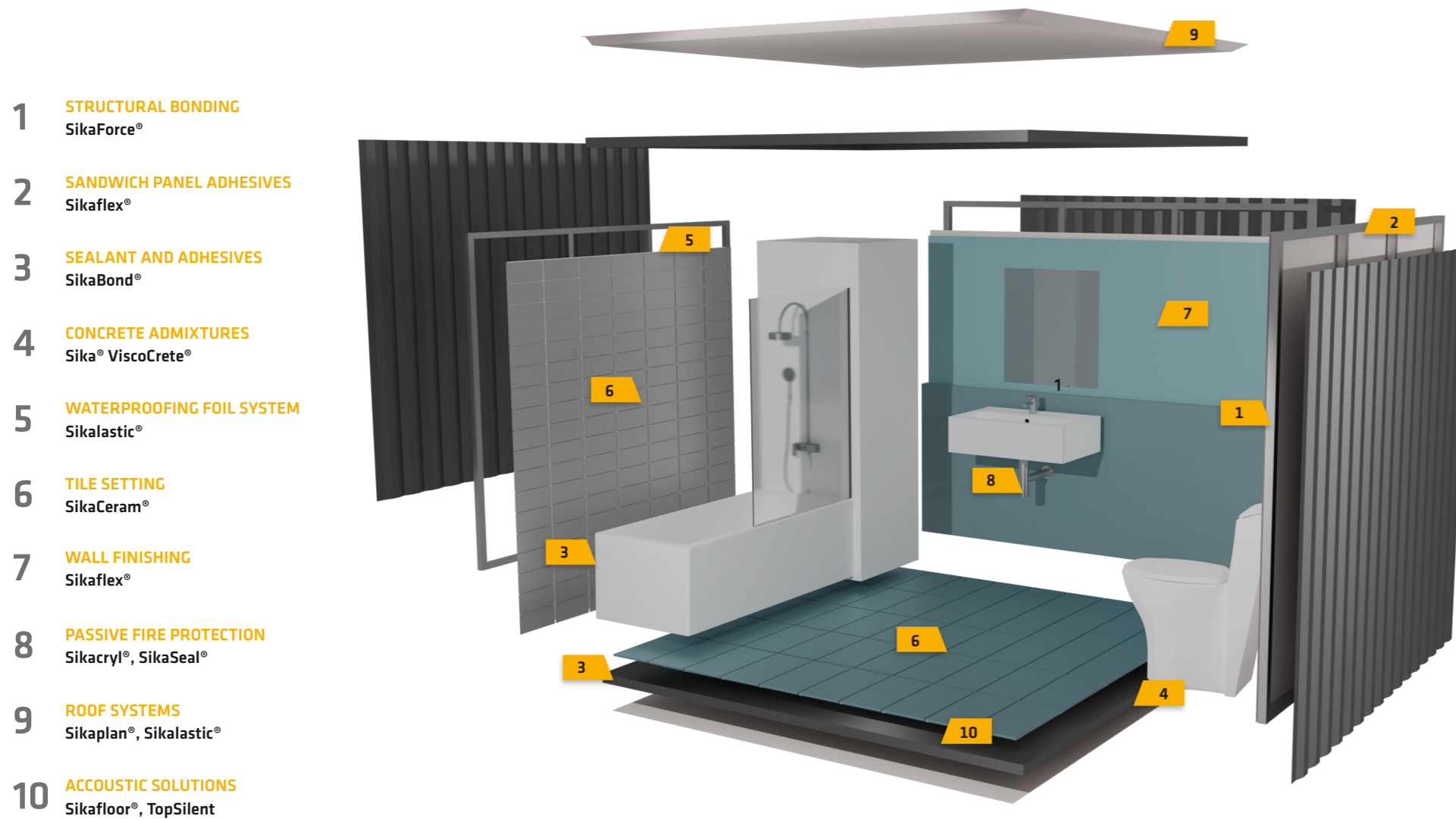
In offsite construction - or modular building - typically more than 80% of the construction is completed off site, and the component parts (or modules) are transported to the site for assembly. The sector is growing in popularity due to its many benefits such as less time on the construction site, cost-effectiveness, flexibility, improved quality control, reduced waste and sustainability. It can also help to address specific, local construction challenges, such as dealing with skilled labor shortages or meeting local regulations.

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MODULAR BATHROOM PODS

USING MODULAR BATHROOM PODS LOWERS CONSTRUCTION COSTS by reducing construction time, improving quality and reducing on-site rework. With traditional building, a multitude of trades need to be well-coordinated to complete the bathroom installation. This requires a high degree of supervision and management on site to ensure correct sequencing and quality of work from plumbers, electricians, tilers, sealant applicators, interior designers, carpenters, and other specialists.







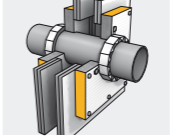
- 1 **STRUCTURAL BONDING**
SikaForce®
- 2 **SANDWICH PANEL ADHESIVES**
Sikaflex®
- 3 **SEALANT AND ADHESIVES**
SikaBond®
- 4 **CONCRETE ADMIXTURES**
Sika® ViscoCrete®
- 5 **WATERPROOFING FOIL SYSTEM**
Sikalastic®
- 6 **TILE SETTING**
SikaCeram®
- 7 **WALL FINISHING**
Sikaflex®
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- 10 **ACCOUSTIC SOLUTIONS**
Sikafloor®, TopSilent

Bathroom pods eliminate most of these issues. Savings from waste, reduced construction times and improved quality result in better performance during use, cost savings and earlier income streams from the project. Bathrooms built in a factory offer fewer defects and allow the bathroom pod manufacturer the ability to research and implement aesthetic and functional innovations to improve the bathroom pod quality. For bathroom pods and wet rooms, including in shipping and offshore constructions with IMO qualified solutions, Sika provides expertise with a wide range of products and systems.

Throughout the process, from the design phase and during manufacturing to on-site installation, Sika's complete solution package for modular bathroom pods

- **INCREASES PRODUCTIVITY** due to automated solutions
- **CREATES A SAFER WORK ENVIRONMENT** thanks to acoustic and fire protection solutions
- **PRODUCES MORE DURABLE MODULES** thanks to innovative adhesive solutions to reduce waste and improve quality.

SIKA IS A FULL SOLUTION SUPPLIER FOR BATHROOM PODS

	Bonding the molds and assembly of the walls Structural bonding Sandwich panel adhesives Sealant and adhesives	SikaForce® Sikaflex® SikaBond®
	Preparing the base/floor Concrete admixtures Surface preparation	Sika ViscoCrete® Sikafloor®
	Waterproofing with the Sika solutions system Waterproofing foil system Liquid Applied Membranes Accessories	Sikalastic® SikaCeram® Sika® SealTape
	Tiling system and wall finishing Tile setting, traditional or automatic Wall finishing range of products	SikaCeram® Sikaflex®
	Installation of the pods on site Sealant and adhesives Passive fire protection	Sikasil® Sikacryl® SikaBoom® SikaSeal®

WHATEVER THE MATERIALS, SIKA HAS THE SOLUTION

STEEL, WOOD, CONCRETE AND GRP are the common construction materials used in off-site construction. Each manufacturer will use its own specific building material for better efficiency and expertise. Sika solutions allow bathroom pod manufacturers to increase the quality of modules and achieve better cost efficiency, whatever the materials used.



WOOD FRAME PODS

Wood frame bathroom pods provide several benefits: Light material, sustainable and recyclable, durable and strong (hardening process). Moreover, wood provides better thermal and acoustic insulation.



STEEL FRAME PODS

Durability and fire resistance are two of the main key benefits of using a steel frame building. Steel frame will last a long time if it is properly protected from corrosion.



CONCRETE BATHROOM PODS

Concrete provides maximum durability. It ensures fire resistance and sound insulation.



GRP PODS

Glass Reinforced Plastic (GRP) pods are robust and easy-to-clean solutions. They can be delivered in a dismantled configuration.

SIKA SOLUTIONS FOR WET ROOMS




Sika offers a full wet room system solution according to ETAG 022:part2 with the combination of the following products:




- 1 **PRIMER**
Sikafloor®-Primer
- 2 **SEALING TAPE**
Sika®-SealTape F
- 3 **WATERPROOFING ADHESIVE**
SikaCeram®-Sealing Fix
- 4 **FOIL MEMBRANE**
SikaCeram®-Sealing Membrane W
- 5 **TILE ADHESIVE**
SikaCeram®
- 6 **TILE GROUT**
SikaCeram®-Stargrout

THE NEW WAY OF WATERPROOFING... AS NEVER BEFORE!



SikaCeram®-Sealing Fix
Rollable rapid hardening waterproofing adhesive to bond SikaCeram® Sealing Membrane W in bathroom pods

- Easy to apply by roller
- Rapid hardening, fast installation time
- Highly flexible, crack bridging strength
- Two in one: bonding SikaCeram Sealing Membrane W and sealing overlaps
- ETAG approved system
- Very low emissions





SikaCeram®-Sealing Membrane Fix
Waterproofing and decoupling membrane


- **Security:** Consistent layer thickness across the entire application
- **Easiness:** Flexible material that adapts to all shapes and surfaces, easy to work with
- **Speed:** No waiting time between different layer, therefore, huge saving in costs and money
- **Ergonomics:** just unroll the sheet membrane and place it

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AUTOMATED TILE SETTING

SIKA'S REAL BENEFIT FOR CUSTOMER! Thanks to our innovative construction systems, we can offer tailor made, high quality solutions for bathroom pods production, all according to your requirement. Our advanced technologies, high level of service, and unique expertise, means we can provide the most intelligent solutions for your existing and future needs.

Prefabricated bathroom manufacturers rely on Sikaflex®-950, which offers a durable and cost-optimized solution for tile bonding on panels, where gap filling, high dynamic stress resistance and low emissions are required.

Sikaflex®-950 is a two-component adhesive sealant based on silane terminated polymer (STP) technology with good gap filling performance and pumpability over long distance. This solution cures by chemical reaction of both components and forms a durable elastomer.

Sikaflex®-950 is suitable, also for a large surface bonding, on substrates such as metals, aluminum, metal primers and paint coatings, glass, and plastics.

KEY PRODUCT FEATURES

- Wide adhesion range, bonds well without the need for special pretreatments
- Good gap filling capabilities
- Easy to pump, particularly suitable for automatic processes
- Low odor
- Meets highest EHS standards as it is free of isocyanate, solvents, PVC and phthalates (EC1^{PLUS})

AUTOMATED APPLICATION

SAVE 6 TO 12 HOURS PER BATHROOM

PROCESS OPTIMIZED PRODUCTS



AUTOMATIC PROCESS



INDUSTRIAL COATINGS

UNPROTECTED STRUCTURAL STEEL starts deteriorating when exposed to environmental corrosion. With time and depending on the degree of exposure, its durability may be considerably affected. A preventative and regular maintenance such as painting protects the structural steel and steel components from corrosion and extend their service life.

CORROSION PROTECTION FOR STEEL FRAME

Sika Proxicolor **SikaCor®**



FIRE PROTECTION SOLUTIONS

- for STEEL **Sika Unitherm Platinum**
- for CONCRETE **Sika Unitherm Concrete**
- for WOOD **Sika Pyroplast Wood**



THE UNIQUE TECHNOLOGY OF

Sika Unitherm Platinum

2-Pack Epoxy

FAST - TOUGH - SUSTAINABLE

- **In-shop application:** ready for transport and assembly without restrictions after 24 hours
- **Solvent-free:** meets requirements according to DGNB, LEED and BREEAM
- **High mechanical load capacity:** outdoor storage of the coated steel components is possible

2 in 1: FIRE PROTECTION + CORROSION PROTECTION



QUALITY ACOUSTIC SOLUTIONS

SIKA HAS A LONG TERM EXPERIENCE IN AUTOMOTIVE INDUSTRY WITH ACOUSTIC SOLUTIONS

which we apply in the construction industry. In the Sika Acoustic Test facilities Sika engineers and application experts perform virtual and physical testing, analyze the results and propose solutions for each specific application. The Sika Technology Centers have been designed to support the development, validation, and optimization of acoustic solutions.



By collaborating on advanced acoustic systems in an early project stage, Sika helps customer enhance global projects with high performance as well as EHS-friendly products fitting specific requirements.

SIKA - COMFORTFLOOR PRO SYSTEMS: REDUCTION OF 19dB

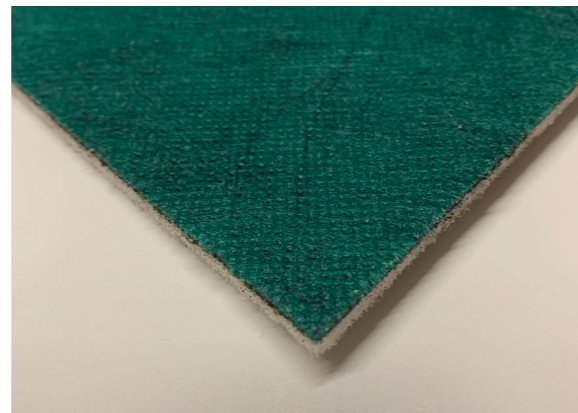


Smooth Low VOC colored Sound Insulating Screed with **Sikafloor® Comfort Regupol 6015 H**

- Recycled contents of 86%
- Easy to install
- High impact resistance
- Shock absorption
- Sound reduction capacity of 19 dB when used in **Sika® ComfortFloor Pro System**



SIKA - ACOUSTIC SOLUTIONS FOR WALL



Acoustic insulation made up of high density sound-resistant foil with very high critical frequency for the acoustic improvement of plasterboard walls

TOPSILENT Duo, TOPSILENT Bitex, TOPSILENT Adhesiv

- High density foil
- Particularly efficient «gripper» to adhesives
- Can be used as shock-absorber on metal sheet panels
- Topsilent Adhesiv reduced laying times
- Sound insulating power (calculated) of 26 dB (with Topsilent Bitex and Topsilent Adhesiv, mass 5 kg/m², thickness 4mm)

PROTECTION WITH PASSIVE FIRE RESISTANCE

AN ESSENTIAL ASSET FOR OCCUPANTS AND OWNERS, Sika's passive fire protection solutions are designed to be able to seal all different types of building joints and penetrations, to help keep fire in defined compartments for a certain period, thereby allowing people to evacuate safely.



Sika passive fire protection solutions comply with the most relevant national and international standards (including EN, UL, EAD (ETAG), ASTM, AS, Certifire).

Because of different materials, thinner walls and less space, tests might be required in off-site construction system. **Sika's Experts provide assistance to benefit your business.**





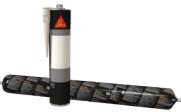










Pipe collars before ...








... and after testing

FULL RANGE OF PRODUCTS






STRUCTURAL BONDING, ASSEMBLY OF THE WALLS				
	Product	Uses	Advantages	Packaging
Structural Bonding	SikaForce®-7100 range 	Easy processing one or bi component PUR adhesive for discontinuous panel production line.	To enhance panel performance To improve the production efficiency Meet Euroclass A2:s1:d0 Reaction To Fire classification	Pail 25 kg Drum 195 L
	Sikaflex®-545 	1-component Silane Terminated Polymer (STP) assembly adhesive, bonds well a wide range of substrate with minimal pre-treatment	Powerful initial grab, very low emission, meets highest EHS standards. EC1 certificate	Cartridge 300ml Unipack 600 ml Drum 195 L
	SikaForce®-840 L7 	Suitable for structural elastic bonding of composites (e.g. CFRP, GFRP) or coated metals in general industry	Combination of structural properties and flexibility, stable mechanical properties, fast curing at room temperature and suitable for quick assembly, excellent compressibility, low odor.	Cartridge bi comp. 400ml Hobbock (A) 19 kg Hobbock (B) 19 kg
Sandwich Panel adhesives	SikaBond®-115 Strong Fix 	For indoor use For bonding on porous construction materials such as concrete, mortar, fiber cement, wood, and plaster	Best-in-class lap shear strength Best-in-class adhesion High final strength EMICODE EC1, A+, LEED v4	Cartridge 290ml
	SikaTack® Panel-10 	1-component polyurethane for panel bonding in ventilated facades and interior wall cladding	Elastic fixing system, vibration and movement absorbing Panel are invisibly attached to the substructure	Cartridge 300ml Unipack 600 ml
	SikaTack® Panel Primer 	Pigmented, solvent-based primer for the SikaTack Panel system	Specifically formulated for the treatment of bond faces prior to application of SikaTack® Panel adhesives	Can 1000 ml

PREPARING THE BASE AND THE FLOOR SURFACE				
	Product	Uses	Advantages	Packaging
Concrete admixtures	Sika® ViscoCrete®-1030 	Suitable for production of concrete in precast industry, especially with extended workability and high early strengths requirements.	Water reduction, resulting in improved density, higher strength and reduced permeability Improved fairfaced surfaces	Drums 200 L Containers 1000 L Bulk supply on demand
	Sikafloor®-200 Level 	Very low emission, polymer modified cementitious floor levelling compound, for smoothing and levelling interior and exterior subfloors.	Self-levelling, layer thickness 3-40 mm, waterproof against dispersion adhesive, suitable for application on subfloor heating systems, very low tension / stress on substrate, pumpable	25 kg bag
Surface preparation	Sikafloor®-01 Primer 	For foil membrane system Reducing absorbency, improving adhesion Substrate protection against moisture from levelling compounds	Short waiting time, low consumption, high coverage, can be sprayed Can be applied to almost substrates Grippromoting EC1 plus certified	5 kg and 10 kg plastic can 1 kg bottle
	Sikafloor®-03 Primer 	For dry wall installation Good substrate penetration Resistant to saponification Suitable for application on subfloor heating systems	Short waiting time quick drying time, easy to apply Can be sprayed Grid promoting	10 kg plastic can
WATERPROOFING				
Liquid Applied Membrane	Sikalastic®-220 W 	One component, water based resin for wet rooms Provides a fully bonded waterproof finish ready for the application of tiles. Internal use.	Ready to use Suitable for use horizontally and vertically Applied on different substrates (concrete, gypsum board) Conform to ETAG 022:1	7 and 16 kg containers
	SikaCeram® Sealing Fix 	2-part component, waterproof adhesive used for bonding SikaCeram Sealing Membrane W (interior)	Watertight, crack bridging, very low emissions, low dust, roller, or trowel applied Typical bonding substrates: cementitious, gypsum boards	Parts A+B: 7,8 kg container
Foil membrane system	SikaCeram® Sealing Container Membrane W 	Flexible sealing and decoupling membrane used for waterproofing walls and floors under tiles in wet rooms (e.g. bathroom). Indoor use.	Waterproof, water vapor tightness, crack bridging, easy to apply, suitable for heated floors GEV-Emicode EC 1plus, ETAG 022 Part 2	1,0 m x 30 m long roll

WATERPROOFING

	Product	Uses	Advantages	Packaging
Accessories	Sika®SealTape F 	Crack-bridging and waterproofing tape used in combination with Sika waterproofing products for reducing the risk of leakage at locations (wall corners, floor-to-wall connections, pipe entries etc).	High elasticity, high breaking strength Easy to install Waterproof and watertight Chemical resistant	Width ~120 mm Length ~25 m / ~50 m
	Sika®SealTape B (self-adhesive system) 	Flexible sealing and decoupling membrane used for waterproofing walls and floors under tiles in wet rooms (eg. bathroom). Indoor use	Highly elastic, very thin (0,99 mm) Simple use Highly waterproof Strong adhesion on a wide range of substrates	Width ~100 mm Length ~20 m Inside corner(IC): box 20 pieces Outside corner(OC): box 20 pieces
TILES ADHESIVES				
Traditional	SikaCeram®-270 Multiflow 	Versatile fast-setting tile adhesive, suitable for all types of ceramic tiles Can be used interior, on floor and walls	Different application consistencies Deformable Fast setting No vertical slip Very low emissions	25 kg bag
Automatic	Sikaflex®-950 	Two-component adhesive sealant based on STP technology suitable for large surface bonding, on substrates such as metals, aluminium, glass and plastics	Wide adhesion range (no special pretreatments) Easy to pump Low odor Meets highest EHS standards	Dual Cartridge (A+B) 400 ml Sikaflex®-950 A: Pail 23 L Drum 195 L Sikaflex®-950 B: Pail 23 L Drum 195 L
Grout	SikaCeram® Large Grout 	One-pack cementitious tile grout for joint from 4 to 20 mm width Suitable for all types of ceramics Perfect for over underfloor heating	High resistance to abrasion Very good workability Easy to clean CG2 WA classified (EN 13888)	25 kg bag

ON-SITE INSTALLATION

	Product	Uses	Advantages	Packaging
Sealant & adhesives	Sikasil® C 	Neutral-curing silicone sealant for construction and sanitary applications	Ideal where providing additional sand is a problem No shrinkage, very good finishing Rapid-hardening	Cartridges 300 ml, 12 pieces per box Foil pack 400 ml, 20 pieces per box Foil pack 600 ml, 20 pieces per box
	SikaBoom®-400 Fire 	Fire resistant 1-part PU expansion foam for interior joints in walls joints in fine compartment walls	Very easy to use, fast application Can be used with straw or application gun Up to 4 hours fire resistance	Cans 750 ml 12 pieces per box Colors: pink
Passive fire resistance	Sikacryl® 621 Fire 	Fire resistant, phthalate-free acrylic sealant for interior joints and penetration seals in walls and floors	Extremely versatile, can be combined with many other Sika passive fire protection products Up to 4 hours fire resistance	Cartridges 300 ml, 12 pieces per box Foil packs 600 ml, 12 pieces per box Colors: white, grey
	SikaSeal® 627 Fire Collar 	Fire resistant pipe collar consisting of a metal casing and an intumescent insert for interior and exterior penetration sealing applications	Prefabricated pipe collar Pipe diameter range 32 – 250 mm Up to 4 hours fire resistance	2 pieces per box
	SikaSeal® 628 Fire Wrap 	Restores the fire resistance performance of a floor or wall which incorporates service openings containing plastic or composite pipes	Ready to use, pre-cut strips for pipe diameters from 32 to 250 mm Highly intumescent Invisible installation Up to 4 hours fire resistance	25 pieces per box

CONSTRUCTION EXPERTISE PLUS INDUSTRIAL KNOW-HOW

DELIVERING CONSTRUCTION SOLUTIONS that not only meet the most demanding specifications of the building industry but also improve manufacturing efficiency and quality – that is Sika's commitment to offsite manufacturers and more specifically to bathroom pods manufacturers.



With extensive technical expertise and solid practical experience on every continent in all climates and environments, Sika is a highly qualified, reliable partner for your manufacturing and construction needs providing a full range of modular construction solutions.

YOU NEED TO FIND WAYS TO MAKE YOUR PREFABRICATED BATHROOM LIGHTER, STRONGER, SAFER OR GREENER

SO WHERE DO YOU START?

Start with a trusted partner that can deliver global innovation on a localized scale, wherever and whenever it is needed. Start with a commitment to continuous improvement, and the knowledge that it takes years to become an overnight success. Start with a collaborative approach that can bring together great minds. Start with pioneering innovation that clears a path for the bathroom pods of the future, no matter what form they take.



START WITH SIKA

With a full suite of solutions, Sika is a key strategic partner for prefabricated bathroom manufacturers. By collaborating on advance development projects and engaging early in program development, we help customers optimize designs, identify cost savings and reduce complexity.

Faster 	Safer 	Higher Performance 
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COST EFFICIENCY


ACOUSTIC SOLUTIONS				
Product	Uses	Advantages	Packaging	
Floor (System P525)		Sikafloor® Comfort Adhesive Two part, total solid, low VOC, PUR used to adhere Sikafloor® Comfort Regupol 6015H, on concrete and cementitious screeds. For interior use only.	Good bonding properties Low VOC Non flammable No shrinking after curing Easy to apply	Part A: 17 kg containers Part B: 3 kg containers Part A+B: 20 kg ready to mix units
		Sikafloor® Comfort Regupol-6015H Prefabricated rubber shock pad produced by bonding rubber crumb with a polyurethane compound. For interior use only.	Permanently flexible Shock and sound absorption High hardness High impact resistance Easy to apply	Roll 67.5 m ² Roll width 1.5 m Roll length 45 m
		Sikafloor® Comfort Porefiller Two part, total solid, low VOC, PUR used for sealing and levelling of the permeable surface of prefabricated granular rubber sheets. For interior use only.	Good bonding properties Low VOC Non flammable No shrinking after curing Easy to apply	Part A: 16 kg containers Part B: 4 kg containers Part A+B: 20 kg ready to mix units
		Sikafloor®-330 Elastic, two part, solvent free, self leveling polyurethane resin system, used as a self-leveling wear course for Sika ComfortFloor Pro System. For interior use only.	Low VOC emission Solvent free Flexible and resilient No shrinking after curing Reduces football sound	Part A: 15.8 kg containers Part B: 4.2 kg containers Part A+B: 20 kg ready to mix units
		Sikafloor®-305 W Two part water based, low VOC, polyurethane, coloured matt seal coat for Sika ComfortFloor System	Water based Very low odour Good UV resistance, non-yellowing Easy to clean	Part A: 8.5 kg containers Part B: 1.5 kg containers Part A+B: 10 kg ready to mix units
Wall		TOPSILENT Bitex Foil with polypropylene textile coating on both faces, used in the building industry to improve the acoustic properties of plasterboard panels of insulating false-walls and false-ceilings.	Topsilent is a high density foil that has the acoustic properties of a foil of lead. Ca be bonded (Fonocoll, Gipscoll) to the plasterboard or wood panels. Sound insulating power (calculated): 26 dB (mass 5 kg/m ² , thickness 4mm)	Roll size: (Topsilent 5kg/m ²): 0.60 x 8.50 m 1.20 x 8.50 m
		TOPSILENT Bitex In Topsilent Adhesiv one of the faces of the polypropylene finish is replaced by a coating of self-adhesive product protected by a silicone film.	Topsilent Adhesiv reduces laying times and does not require the use of nails. Simply remove the silicone film and press the sheet on the surface to be insulated. Sound insulating power (calculated): 26 dB (mass 5 kg/m ² , thickness 4mm)	Roll size: 1.00 x 8.50 m Thickness total 4 mm

SIKA, YOUR PARTNER

COMPLETE SOLUTION PROVIDER



Reduce material and waste for a more **sustainable** manufacturing process

Expert specification support combining industry **know-how** with construction products

High **quality** products and services to meet local and international building regulations

Automation for **reduction** in labor costs

Improve structural **integrity** and reduce weight by use of adhesives

Acoustic solutions to aid noise **reduction** and improve comfort

Simplified processes to **reduce errors** and rework costs, thereby increasing outputs

Safe and secure buildings with fire **protection** systems

SERVICE AND SUPPORT

For off site our experienced engineers, FROSIO and experts create special designed solutions to help you to work profitable, cost-efficiently, effectively and sustainably.



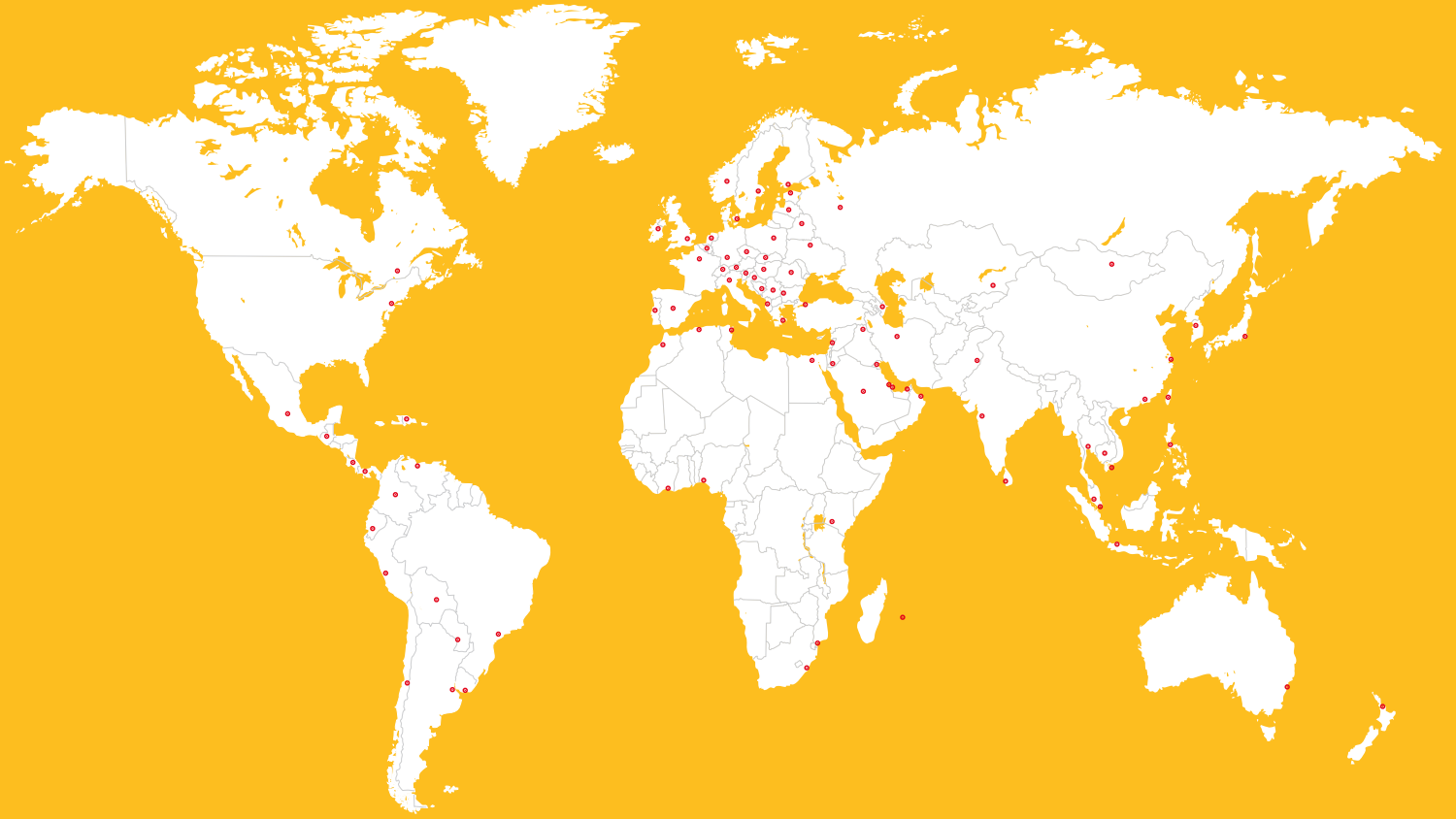
We offer **customer oriented** individual assistance and advice by our professional qualified technicians in all aspects of the industrialized modular construction.

In addition to **innovation** and **service**, **quality** is one of the pillars of the Sika brand identity. Quality allows our entire product portfolio being at the same time a measure of our services and processes inside and outside the company.



The **close cooperation** with you as **customer** ensures adequate performance throughout the whole project life cycle.

GLOBAL BUT LOCAL PARTNERSHIP



FOR MORE INFORMATION



www.sika.com/modular-building

WHO WE ARE

Sika AG, Switzerland, is a globally active specialty chemicals company. Sika supplies the building and construction industry as well as manufacturing industries (automotive, bus, truck, rail, solar and wind power plants, facades). Sika is a leader in processing materials used in sealing, bonding, damping, reinforcing, and protecting loadbearing structures. Sika's product lines feature high-quality concrete admixtures, specialty mortars, sealants and adhesives, damping and reinforcing materials, structural strengthening systems, industrial flooring as well as roofing and waterproofing systems.



Our most current General Sales Conditions shall apply.
Please consult the Data Sheet prior to any use and processing.



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BUILDING TRUST

