

# RELIABLE SOLUTIONS FOR VARIOUS FIELDS OF APPLICATION



# CONTENTS

	4	Member of Constantia Industries
	5	International focus
	6	Isosport Group
	7	Strategy, Mission, Vision
	8	Mission statement
	9	Partner in all industry fields
	10	Reliable solutions
	11	Technology
	12	Milestones in development
<b>KOTERM</b>	<b>PRESSED</b>	
	13	A wide range of possibilities
	14	Reliable solutions for all fields of industry
	15	Mechanical industry
	16	Paper industry
	17	Food processing, 18, 19, 20
	21	Chemical industry
	22	Mining
	23	Protection boards
<b>FUNICE</b>		
	24	Sport / Synthetic ice panels
	25	Joint development projects with clients, 26
<b>ISOFORM</b>	<b>EXTRUDED</b>	
	27	A wide range of possibilities
	28	Co-extruded sheet
	29	Filled materials
	30	Reliable solutions for all fields of industry
	31	Thermoforming
	32	Automotive industry
	33	Chemical industry
	34	Electrical industry
	35	Sound proofing
	36	Furniture industry
	37	Orthopaedics/Isortho
	38	Building construction
	39	Fabac
<b>ISOTRACK</b>		
	40	Temporary roadways
	41	Wide product range
	42	Reliable solutions
	43	Isotrack series X, 44
	45	Isotrack series H, 46
	47	Isotrack tMat , 48
	49	Isotrack series L, 50
<b>KOPLAST</b>		
	51	Extruded profiles for various industries
	52	Rolling doors, profiles
	53	Extrude, laminate, CNC

# MEMBER OF CONSTANTIA INDUSTRIES



Privately owned industrial holding since 1949.

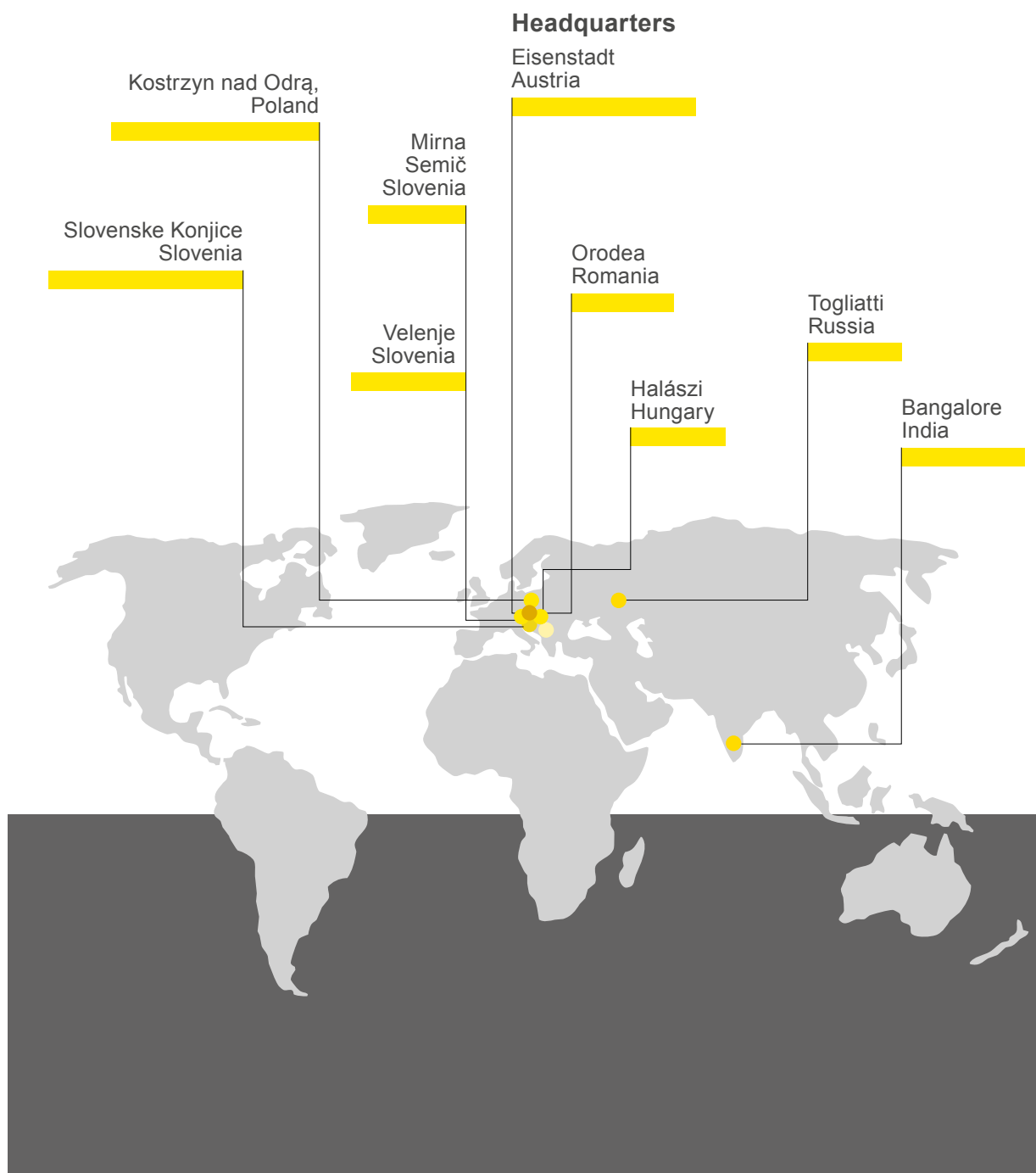


## INTERNATIONAL FOCUS

- ◆ Clients in numerous industries
- ◆ Construction & Furniture
- ◆ Sport & Leisure
- ◆ Machinery industry
- ◆ Aviation & Transportation
- ◆ Electrical industry



# ISOSPORT GROUP – PRODUCTION PLANTS

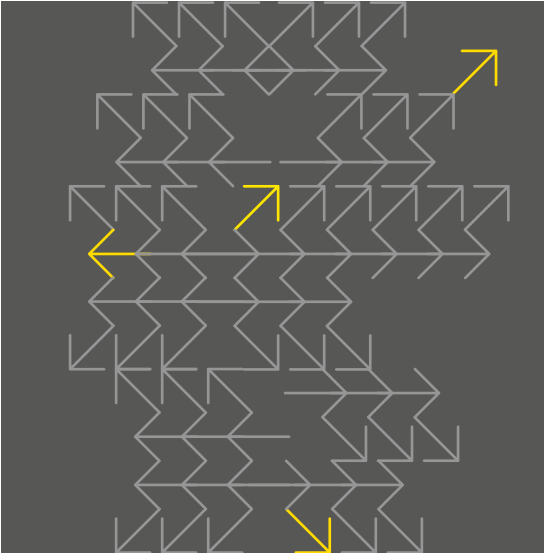


We offer innovative solutions, adapted to the needs of our customers, whose basic principle is a added value.

## STRATEGY

We are focused on growth ensured through the development of key competences, partner relationships with customers, and the development of our marketing network.

## MISSION



Our mission is the development, production and sale of products in the field of environmentally friendly technical plastics. We want to contribute to our customers' business success to the greatest possible extent through development and consulting.

The products and semi-finished products from technical plastics and services are intended for industrial customers. In addition to their high quality, their basic characteristic is their adaptation to the needs of the customer and their ecological orientation.

## VISION

Our vision is to become the leading innovative company in the field of special thermoplastic solutions in all branches of industry.

# MISSION STATEMENT

**We learn from our experiences**—also our mistakes—and create our future with the courage to face new challenges.

We are satisfied when we can successfully contribute to creating something useful.

**As an international, diversified industrial group we are THE essential partner for our employees, customers, suppliers and regions.**

The owner family ensures the long-term perspective of the company.

**WE ARE UNIQUE.**

“We **trust** our management teams and lead through common targets.

The **right employees** are our biggest potential.

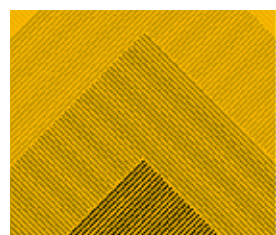
We first decide on the **WHO** then **WHAT**.

Passion for high performance plays an important role for us. We continuously work on our own **organizational development** and at the same time give our best to be as lean as possible.

Cross linked teams and an **open communication** culture ensure fast decisions. Our actions are affected by the central values of **trust, honesty, transparency, loyalty, respectability and responsibility**.

We are committed to **responsible entrepreneurship**. The engagement in environmental, **social and governance** („ESG”) **matters** is an integral **part of our strategy**.

Thriving for business excellence paired with continuous improvement, we generate profit, which ensures the future of our company and employment. We are satisfied, when we can successfully contribute to **creating something useful.**”



---

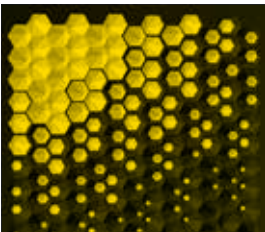
# PARTNER IN ALL INDUSTRY FIELDS

- We are flexible with small batch production capacities, offering special quality, dimensions and colours
- We help our customers build a stronger connection with us as trading partners

## EXPERT IN CUSTOM-TAILORED PRODUCTS

We offer innovative solutions in the field of thermoplastic production and processing.

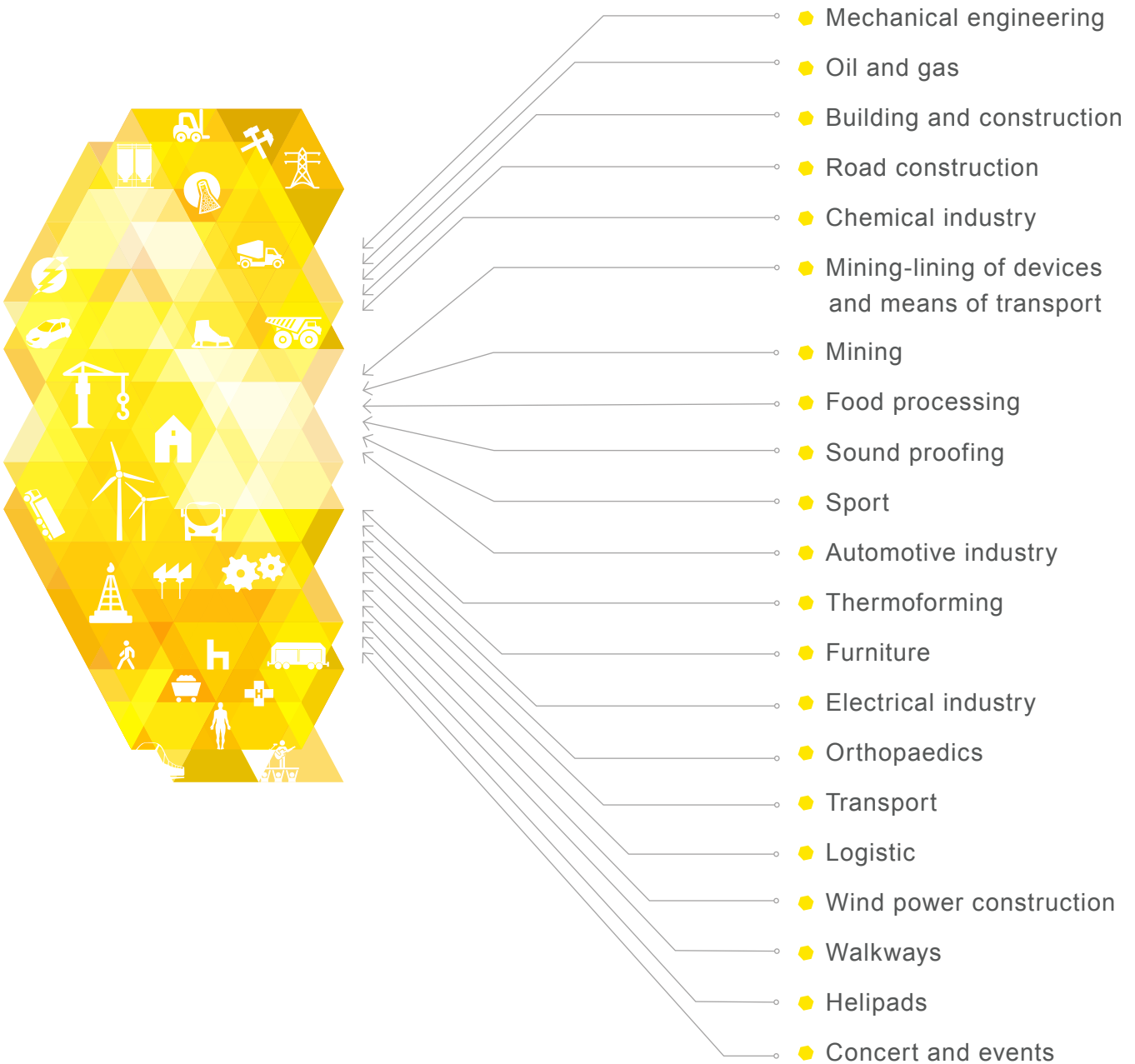
We help you to solve complicated production or construction problems based on our extensive experience and exceptional know-how.



- We train our own staff and conduct our own market research
- We use the owner's development potential
- We have a joint approach and work closely with our parent company
- We are involved in technological development projects



# RELIABLE SOLUTIONS FOR VARIOUS FIELDS OF APPLICATION

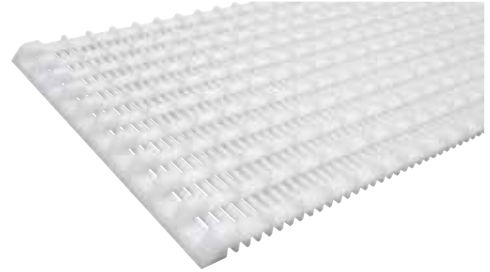


# TECHNOLOGY



## KOTERM PRESSES

- Pressed sheet and PRESS MOULDED / DESIGNED sheet
- Production of machine components



## INNOVATIVE PLASTICS



## ISOFORM EXTRUDED

- Extruded, co-extruded sheet and filled materials



# MILESTONES IN DEVELOPMENT

1955

The turning point in our development goes back to 1955, when the company KONUS introduced a programme in chemical processing.

1965

Plastic processing started.

1975

The KONUS-KOTERM organizational unit was established. Its activity was the treatment and production of PE and PP into semi products and end products.

1980

The company purchased its first press; the second followed six years later.

1989

The company acquired a complete extrusion line, for the expansion of its sheet production range for the automotive manufacturing industry.

1995

The company became part of Isoport GmbH, Eisenstadt, Austria and member of CONSTANTIA Industries AG.

1998

Certification in accordance with the standard ISO 9001.

1999

Installation of the third press. The fourth followed one year later.

2004

With the installation of the second compounding machine we strengthened our position on the market of filled materials with direct extruded compounded sheets.

2005

Significantly increased production of extrusions with three additional extrusion lines.

2011

The company attained the greatest step forward in development with new facilities for the optimization of production flows, with internal logistics and with the fifth press it doubled the production capacity segment.

2013

The sixth press has been installed.

2015

Significantly increased capacity and treatment options with four additional CNC machines.

2016

Installation of the seventh press with robotic line. Acquisition of land and buildings for further expansion and growth of the company.

2017

Repositioning and restructuring of the company.

2018

Isokon Russia company establishment

2020

M&A Koplast d.o.o. Caravaning

2022

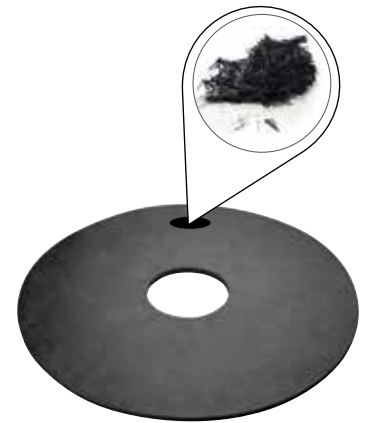
M&A Tomplast Slovenia  
M&A Novotech

# A WIDE RANGE OF POSSIBILITIES IN SEMI- AND FINISHED PRODUCTS

**KOTERM** PRESSED

- Mega press wide product range
- Press moulded / designed sheets  
(pre-formed pressed sheets)
- Prototyping and serial production  
large machine components  
(3-5 axis CNC Machines up to 8 m)
- Material design  
Fibre filled UHMW PE

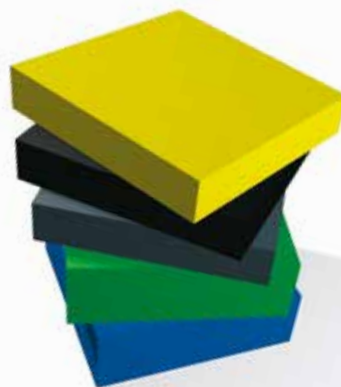
**PRESSED SHEETS**



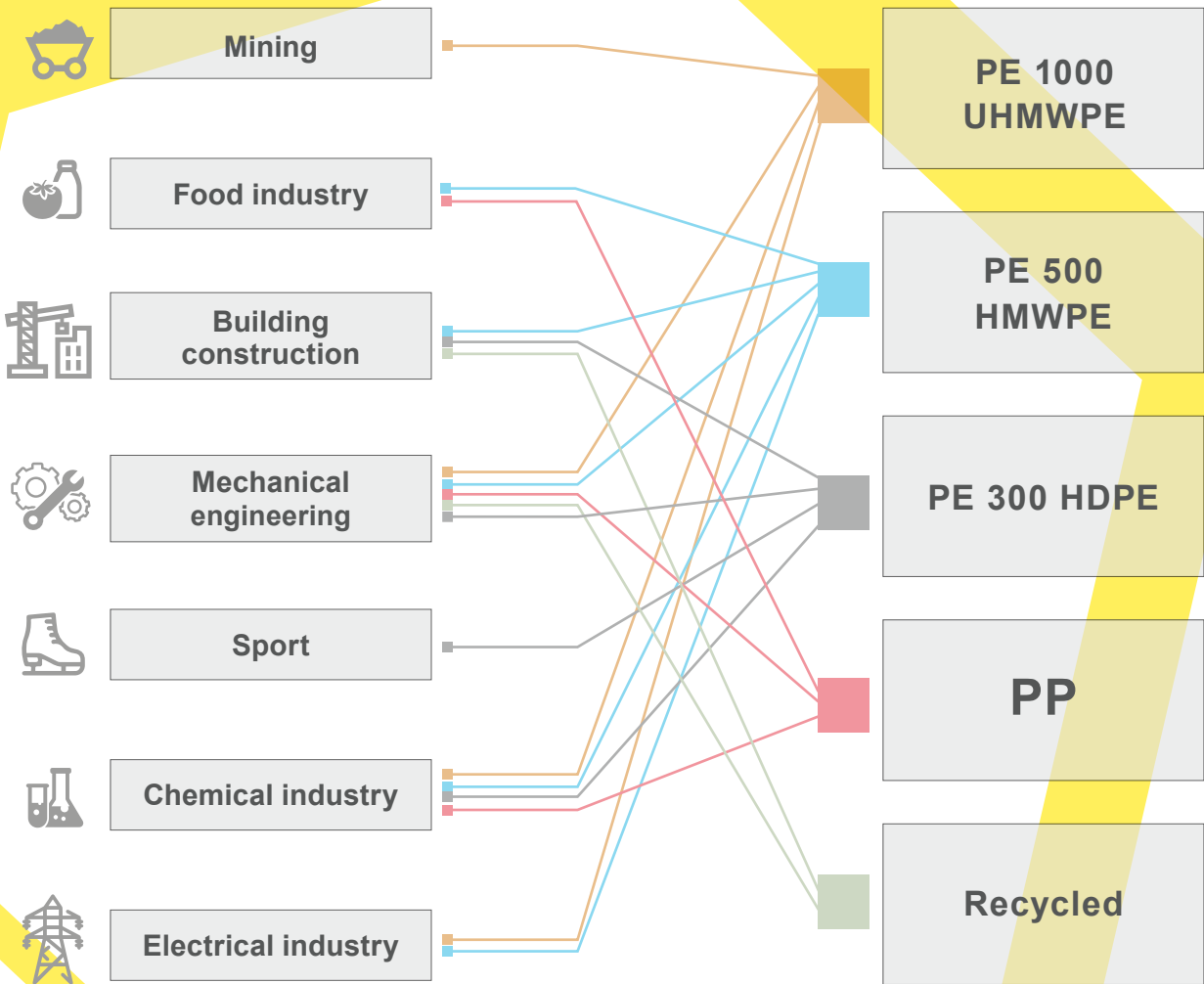
Mega press wide product range because of investments into technology and development, we are orientated towards the application of modern materials and production technologies.

## Standard sheets in dimensions

2,020×1,020mm, 3,030×1,020mm, 6,100×1,020mm  
3,030×1,220mm, 2,020×1,220mm, 6,100×1,220mm  
Thickness range from 10mm to 130mm



# RELIABLE SOLUTIONS FOR ALL FIELDS OF INDUSTRY





# MECHANICAL INDUSTRY

KOTERM PRESSED

Mechanical engineering elements are products that in most cases are produced to order and according to the drawings of customers, or as autonomous technical solutions that are developed and technologically included in the customers' projects. Based on extensive experience and know-how Isokon provides quick solution to the customer.



## MACHINE COMPONENTS

### Advantages in KOTERM Material:

- Excellent wear and abrasion resistance
- Very low coefficient of friction
- Self-lubrication
- No moisture absorption

### Examples of use:

- Gear weels
- Sprockets
- Belts
- Bushings
- Transport palets for automated lines
- Wheels
- Guide rails, etc.



# MECHANICAL INDUSTRY



KOTERM elements for water extraction in the paper industry are composed of ultra-high-molecular polyethylene (4–9 million g/mol) and have a very low wear and excellent sliding properties. With additional fillers (glass balls, silicone or aluminium oxide) and through the use of modified materials, material properties are improved and durability increased, extending the lifetime of the elements.



The advantage to customers is that shapes and perforations are made according to the customers' individual wishes.

## PAPER INDUSTRY



### Examples of use:

- FORMING TABLE: linings/strips
- FOILS – DEFLECTORS: strips
- WET SUCTION BOX: linings
- SUCTION BOX: linings
- SCRAPERS: strips
- TUBULAR SUCTION BOX: linings/strips
- SUCTION ROLL: sealing strips
- GRATINGS

KOTERM PRESSED

### Advantages in KOTERM Material:

- Excellent wear and abrasion resistance
- Very low coefficient of friction
- Self-lubrication
- No moisture absorption

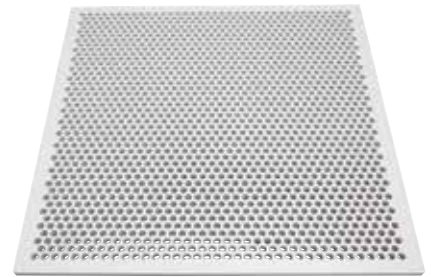




# FOOD PROCESSING

**KOTERM PRESSED**

ISOSTER layer pads offer you a high-quality, economical solution for use in the autoclave sterilization process. The special compound developed for this application offers you high bending resistance at high temperatures. The mats are compact and developed to operate under the most rigorous conditions.



ISOSTER layer pads offer you a high-quality, economical solution for use in the autoclave sterilization process.

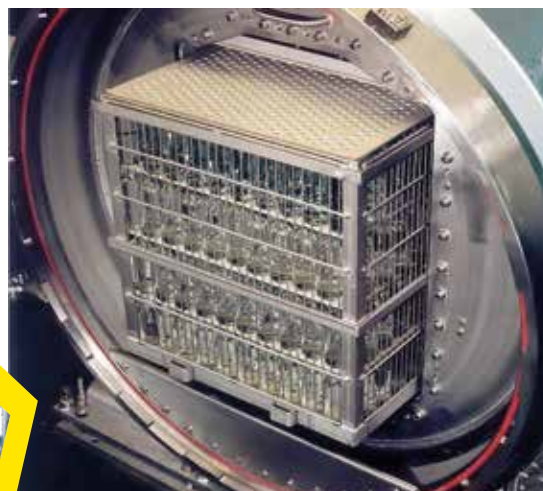
## LAYER PADS FOR STERILIZATION IN AUTOCLAVES

### KEY BENEFITS

- Very good chemical resistance
- High temperature resistance
- Food Approved
- Good flexural resistance at high temperatures
- Flexibility in small quantity production (economical production process for special dimension in small quantities)
- Flexibility in adjusting shapes to customer's request

### KEY INFORMATION AND FEATURES

- Round or square perforation
- One side embossed surface (N3)
- Possibility of material with both sides rubber protection layer
- Possibility of different types of holes, grooves, machined corners on the same layer pad
- Thicker bottom layer pads
- Thicknesses  
PPT20S : 2 - 8 mm  
PPH : 2 - 80 mm





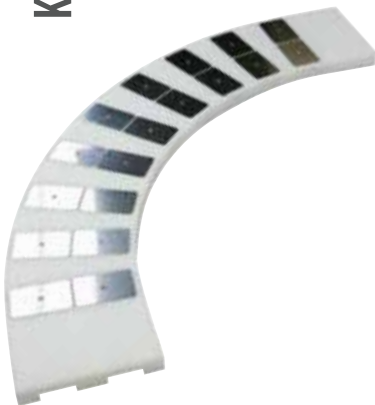
# FOOD PROCESSING



Isokon components for conveyor, canning and bottling lines are used in areas where frictionless transport is required



KOTERM PRESSES



## CONVEYOR SYSTEMS

### Examples of use:

- Straight chain guides (series 880TAB-881TAB, 880, 881, 882 TAB)
- Corner chain guides (two-part series 882TAB, and three-part series S881-SS881-D880-LF88)
- Shoe heels
- Magnetic lower corner parts
- Chain guides (DIN 8187)
- Wedge-shaped guiding strips
- Round belt guiding strips
- Chain guides (DIN 766)
- Sliding belts and profiles
- Sprockets

### Material properties:

- Very good sliding properties
  - High impact strength
  - Lowers the noise levels
- Low wearing of metal parts that slide against KOTERM materials
  - High resistance of KOTERM parts to abrasions
  - Very high impact resistance
  - Does not absorb moisture
- Resistant to chemicals and corrosion
  - Environmentally friendly materials
- Possible regeneration of worn-out parts





# FOOD PROCESSING



Isokon components for bottling, the filling industry and customer made components are used in the areas where frictionless transport is required

KOTERM PRESSED

## COMPONENTS FOR BOTTLING INDUSTRY



### Advantages:

- Excellent wear and abrasion resistance
- Very low coefficient of friction
- Self-lubrication
- No moisture absorption

### Material properties:

- Very good sliding properties
  - High impact strength
  - Reduction in noise levels
- Low wear of metal parts sliding along KOTERM materials
- KOTERM materials are highly resistant to wear
  - Very high resistance to impacts
  - Does not absorb moisture
- Resistant to chemicals and corrosion
  - Environmentally friendly materials
- Possible regeneration of worn-out parts
  - Materials are of top quality



# FOOD PROCESSING



The high quality of KOTERM PE 500 cutting and chopping boards, allows their use in restaurants and hotel kitchens, private households, bakeries, and alike.

## CUTTING AND CHOPPING BOARDS

They are successfully utilized in industries for preparing and processing meat products, in the fish-processing industry, as well as all manufacturing plants utilizing contemporary technologies.

### Advantages:

- High cut resistance
- Resistance to liquids
- Free from odour and taste
- Harmless to blades
- Resistant to hot water, acids and alkalis





# CHEMICAL INDUSTRY



Chamber filter plates for filtration equipment in accordance with DIN standards or as special designs made from carefully selected materials (high-temperature stabilised monpropylene) pressed under high pressure.

## FILTRATION CHAMBER FILTER PLATES, SPARE PARTS FOR FILTERING

### Problem

The effectiveness of a filter depends on the construction and the filter medium support tray material. Some common materials are wood, aluminium, cast iron, ductile iron, stainless steel and material compounds out of steel and rubber. These elements have shown a lot of disadvantages, e.g. low chemical and corrosion resistance, heavy, unfavourable drainage, considerable abrasion, limited working life, fluid absorbency and bad sealing.

### Solution

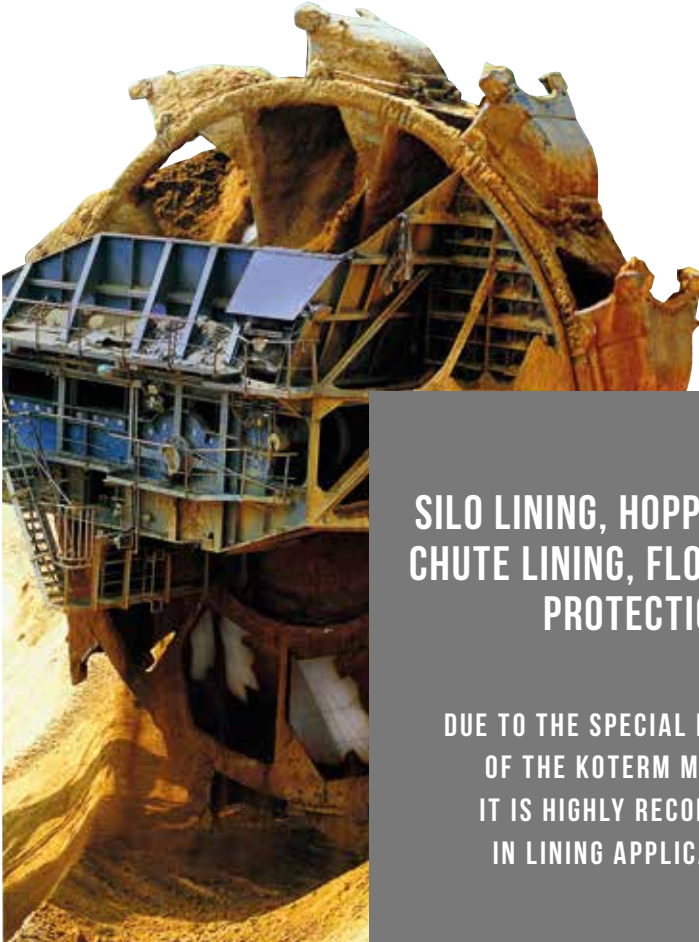
Polypropylene proved to be the best material due to its most favourable price-power-performance and its interesting combination of excellent properties. The advantages of our filter plates: long life span, product quality (pressed under high pressure and machined on CNC machines), excellent sealing, easy cleaning, and light weight.



Prototype filter plates  
Accessories for filter plates  
(handels, flanges, pipes,  
centre feed spreader rings)

**KOTERM** PRESSED

# MINING



## SILO LINING, HOPPER LINING, CHUTE LINING, FLOOR & WALL PROTECTION

DUE TO THE SPECIAL PROPERTIES  
OF THE KOTERM MATERIAL  
IT IS HIGHLY RECOMMENDED  
IN LINING APPLICATIONS.

### Problems solved by the material:

- Less material sticking to the base, especially at low temperatures
- More fluent flow of the material, less blockages
- Excellent material wear resistance
- Good material insulation properties



### In this field the most distinctive features are:

- Better material sliding
- Less material wear
- Faster ejection
- More silent work
- High and ultra-high-Molecular weight polyethylene is characterized by a numerous of specific properties



- Off-road truck beds
- Chutes
- Hoppers
- Scrapers
- Shovel liners
- Stacker/Reclaimer
- Bucket liners
- Dragline Bucket iners
- Front-end loader buckets
- Storage and handling
- Silos, bins, bunkers
- Reclaim hoppers
- Truck dump hoppers
- Rail dump hoppers
- Receiving hoppers
- Dozer blade liners
- Slider beds
- Skirting

High and ultra-high-Molecular weight polyethylene is characterized by a numerous of specific properties.

# PROTECTION BOARDS



Due to its superior physical and mechanical properties, UHMW-PE combines highest strength with wear resistance and consequently provides the best durability of all available Polyethylene products.



### Fender for protection in harbors

More than 90% of all fender applications worldwide are using the reclaimed material.



### Dasher boards

It can be used for ice rings or any other rings which has to be protected by a fence. Special application with the logo as seen on the lower picture is also possible.

### Material usage:

- Fender for protection in harbors
  - PE 1000 reg.
  - PE 1000 virgin
- Panels for cooling chambers and hospitals
  - PE 500
  - PE HD
- Dasher boards
  - Wall : PE HD
  - Protection in yellow: PE 500
- Bumpers for gokart
  - PE HD reg.
  - PE 1000 reg.



### Bumpers for gokart

High impact strength and toughness of the material provides shock absorption in collisions and prevents damage to the vehicle itself (gokart) and guard-rails.

### Panels for cooling chambers and hospitals

Where there is some transportation with carts the damage on the walls can appear because of the human negligence. The best way is to protect walls with plastic panels in different dimensions and colour.



**KOTERM** PRESSED

# SPORT



We are especially proud of the excellent gliding properties of our Premium-Generation, which has the best gliding properties of all synthetic ice panels available on the market.



## FUNICE SYNTHETIC ICE PANELS

MORE THAN 70,000M<sup>2</sup> OF OUR PANELS  
HAVE BEEN SUCCESSFULLY INSTALLED.

### Dasher Boards

Can easily be used for recreational and professional skating and indoor applications. It is also highly suitable for mobile rinks, since it can easily be assembled and disassembled.

### FUNICE offers several advantages:

- Ice skating 365 days a year
- Indoor & outdoor usage
- Suitable for fixed and mobile ice skating rinks due to the simple and quick installation
- Low cost of ownership: no water and electricity are needed
- Simple maintenance, surface renewing possible
- Product lifetime more than ten years
- Ecologically and environmentally friendly
- Completely recyclable
- Usage with normal ice skating equipment
- Better gliding properties than any competitor's product
- No need for applying a gliding solution
- Skating on a dry, clean surface is possible!

KOTERM PRESSED



# JOINT DEVELOPMENT PROJECTS WITH CLIENTS

KOTERM PRESSED



Sensory fields and computer software give better training results in Bad Aibling

## Bobsleigh platform in Winterberg

We renovated the finish area of where the bobsleigh's comes to a halt, where the bobsleigh is pushed towards the weighing station.

The right choice of material allowed a nice slippery surface and lower operating costs.

We selected the FunICE material, which we had previously used for pilot testing in August 2013 to cover approx. 380m<sup>2</sup> of the concrete surface of irregular shapes.

Good cooperation with our client has led to innovations, further developments and the final production of covering part of the bobsleigh tracks with plastic.

## EXAMPLE GRÜTER

We manufactured an ice skating rink with markings for one of our customers. The ice skating rink is used by hockey players for training; under the square markings there are built-in pressure sensors which help ice skaters with their training as they have to visually follow the path on the display, and it shortens the time needed to get to the designated sites.



KOTERM PRESSED



# JOINT DEVELOPMENT PROJECTS WITH CLIENTS



We are involved in joint technological development projects with customers. With innovations, continuous and sustainable development, and by solving questions and problems, we build long-term relationships with our customers.

KOTERM PRESSED

## EXAMPLE MANA ORIGINAL

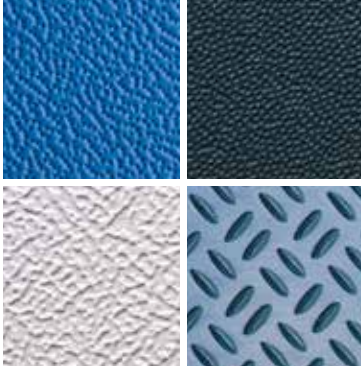
### Winter/Summer ski-jumping ramp

Together with our Slovenian partner, a manufacturer of run-up tracks for ski jumping, we developed a PE ski-jump surface, made out of KOTERM. It has already been installed at many ski jumps worldwide.

The homogeneous material is much less sensitive to temperature changes in comparison with combination of different materials. The modular composite ski-jump surfaces offer a quick and effective replacement of any component making up the surface. This is what put our partner in front of the competition.



# ISOFORM EXTRUDED



# A WIDE RANGE OF POSSIBILITIES IN SEMI-FINISHED PRODUCTS

## Lamination on extruded sheets with:

- Fleece
- Textile or fabric
- Foam
- Stripe(s)
- Decorative foil
- Logo-printed foil
- Removable protective foil

## EXTRUDED SHEET

- Tailor-made materials for thermoforming
- Composite material – reinforcement with different fillers
- Wood-plastic/BIO composites PE & PP filled with nano-cellulose fibres
- Designed products fabric backed, metal-detectable, anti-slip, electroconductive grades, heavy filled and others
- Embossed surfaces: N1, N2, N3, ALU or on request
- Co-extrusion

## Surface finishing:

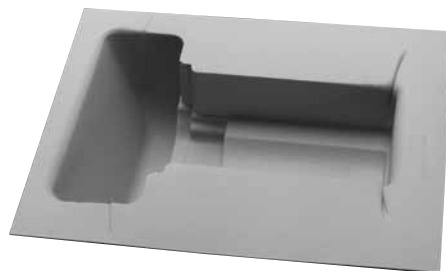
- Glossy
- Mat
- Different textured structures with embossed rolls

## Others:

- Surface activation with flame treatment
- “Cut to size” parts from extruded sheets

## Technologies:

- Extrusion of sheets (thickness 0.5–25mm, max. width 1,700mm)
- Co-extrusion (AB, ABA) of sheets (thickness from 1.2mm, max. width 1,500mm)
- Extrusion of sheets with direct compounding (thickness 1–10mm (max. width 1,600mm))



# CO-EXTRUDED SHEET



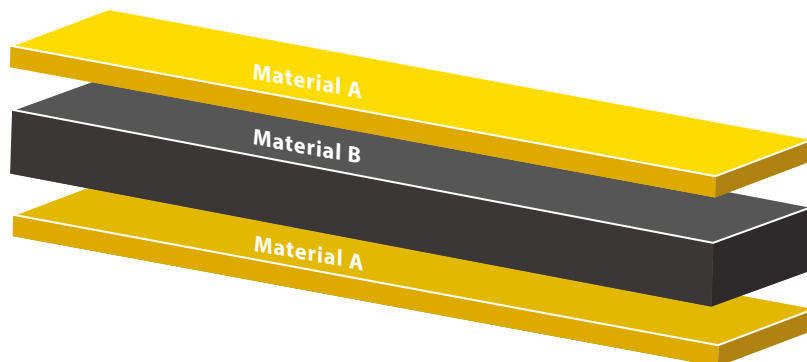
**Maximum width:**  
1500 mm  
**Thickness:** 1–8 mm  
**Colors:** each layer  
different RAL  
**Rolls are available**  
upon agreement.

## CO-EXTRUDED SHEET

Extruding two or more materials through a single die so that materials merge or weld together into a single structure before cooling allows the combination of different compatible materials and colors in a single sheet.

The advantage of co-extrusion is that each layer imparts a desired property, such as stiffness, soft touch, environmental resistance, visual effect.

Applications: automotive industry, food industry, luggage, ... or similar.



# FILLED MATERIALS

Fillers and additives are used to change and improve the physical and mechanical properties of plastics. In general, reinforcing fibers increase the mechanical properties of polymer composites while particular fillers of various types enhance a particular property.

Some of the main reasons to using fillers are:

- Improved mechanical properties
  - Density control
- Thermal conductivity
  - Optical effects
- Flame retardancy
  - Cost reduction
- Electrical properties; antistatic

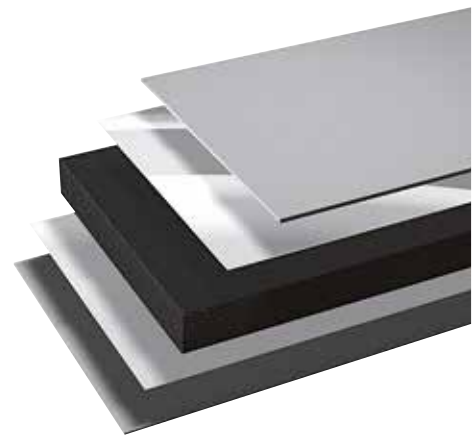
## FILLERS AND ADDITIVES

Modification of basic polymeric materials with fillers

- Talcum
- Wollastonite
- Calcium carbonate
- Short/long glass fibers
- Barium sulphate
- Wood flour
- Carbon black

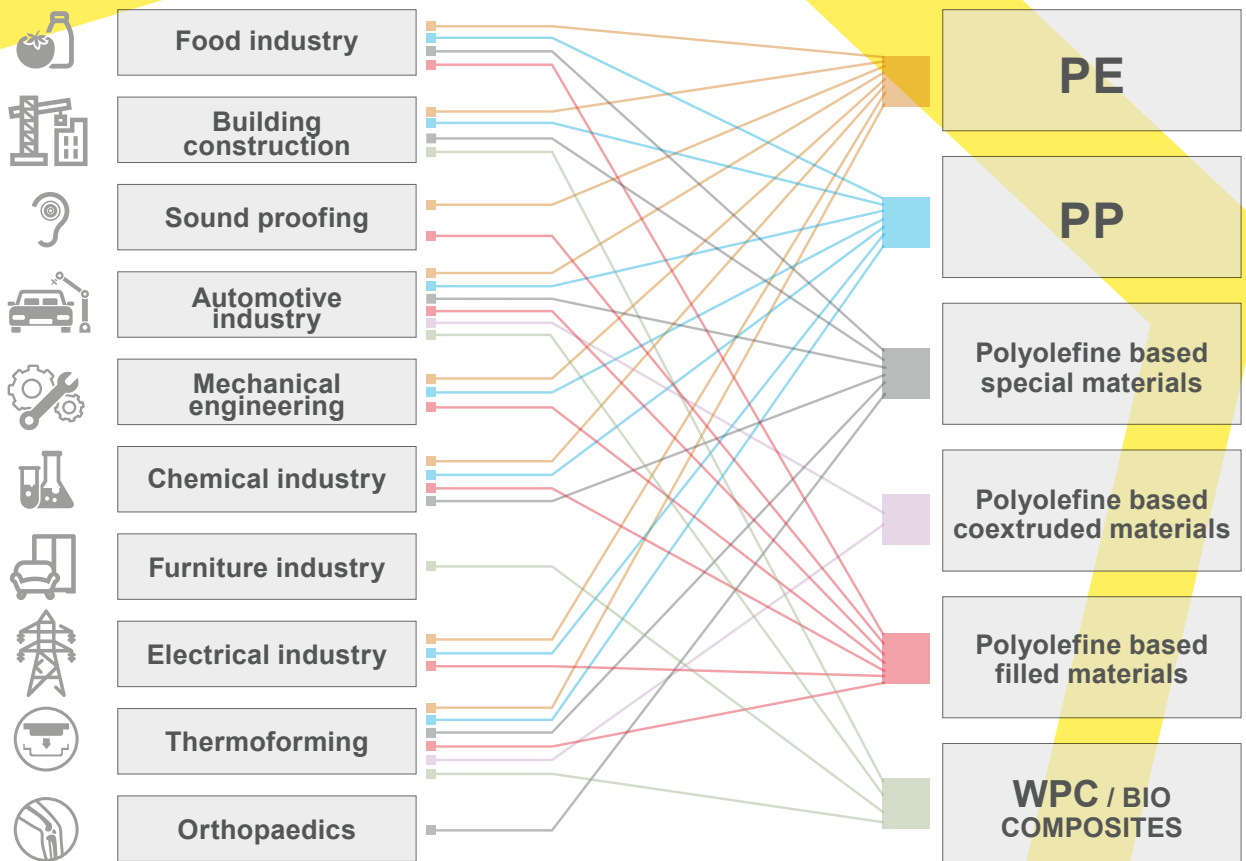
### Key Benefits

- Visual appearance (special effects, color matching)
- Dimensional stability
- Shrinkage
- Stiffness
- Abrasion surface
- Weather influence resistance (UV resistance,...)
- Controlled flammability
- Antistatic characteristics and electrical conductivity
- Controlled impact strength at lower temperature



# RELIABLE SOLUTIONS FOR ALL FIELDS OF INDUSTRY

ISOFORM EXTRUDED





# THERMOFORMING

Upon request materials are designed to meet specific food contact regulations i.e. EN 10/2011 (European directive), Food and Drug Administration (FDA), Bundesinstitut für Risikobewertung (BfR).

Engineered material properties gives a possibility to use the materials in different applications which requires material mechanical performance, antistatic, electroductive, controlled flammability, temperature resistance, antislip and structured surface, soft touch, lamination with the durable foam, sterilization, metal detection etc. as well as VDA 4503 compliant for European wheel pallet system (EWPS).

ISOFORM PRODUCT RANGE OFFERS A VARIETY OF "TAILOR MADE" EXTRUDED AND COEXTRUDED SHEETS WHICH CAN BE EASILY FORMED IN PRODUCT FOR DIFFERENT PURPOSES ESPECIALLY IN INDUSTRIAL LOGISTICS TRAYS.

#### Key applications:

- Pallets
- Cases (boxes)
- Containers
- Trays
- Layer pads

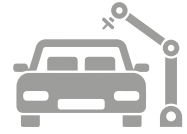
#### Key benefits:

- Recyclable
- Light weight
- Durability
- Vacuum forming
- "Tailor made" product solution for customer needs



ISOFORM EXTRUDED

# AUTOMOTIVE INDUSTRY



Isokon offers materials for different purposes in automotive industry.



ISOFORM EXTRUDED

ISOFORM PRODUCT RANGE OFFERS A VARIETY OF "TAILOR MADE" EXTRUDED AND COEXTRUDED SHEETS WHICH ARE USED IN AUTOMOTIVE INDUSTRY USED AS PARTS OR ADDITIONAL EQUIPMENT IN VEHICLES.

### Key benefits:

- Light weight
- Durability
- Vacuum forming
- Recyclables



Variety of material properties gives possibility to use the materials for a large range of applications. Material benefits include reinforcement, antistatic, electro conductive, controlled flammability, antislip and structured surface, soft touch, sound insulation proofing etc. as well as VDA 4503 compliant for European wheel pallet system (EWPS).



# CHEMICAL INDUSTRY



The use of thermoplastics is in the field of chemical industry practically inevitable.

Throughout history, wood, ceramic and stone have been used as water tanks. Water is susceptible to a number of ambient negative influences, including bacteria, viruses, algae, changes in pH, and accumulation of minerals, accumulated gas. A correctly designed and using correct material water tank works to address and mitigate these negative effects.



## Problem

In the process of galvanization plating products produced silt or mud, these are water-insoluble substances containing metal contaminants. Also by galvanisation occur industrial waste water, in which the cations of metals (e.g. copper, zinc, nickel) and anions (e.g., chromium). These are chemically very aggressive.

## Solution

PP reflects the strong chemical and temperature resistance and ease of processing. The material used – PP has a high level of resistance to microorganisms, so the tanks have no nutrient surfaces before they are cleaned with steam. Welded together to create a watertight tank, the sheets prevent water stored in the tower from penetrating the outside, thereby helping to protect the structure as a whole. PP sheets can be cleaned quickly and efficiently without the use of chemical detergents.



# ELECTRICAL INDUSTRY



## MATERIAL FOR BACK WALLS IN ELECTRICAL DISTRIBUTION ENCLOSURES

SPECIAL POLYPROPYLENE FILLED WITH FILLERS AND ADDITIVES

ISOFORM EXTRUDED

Isoform PP filled sheets are mainly intended for the application in the electro industry and are tested in accordance with standard IEC 60695-2-12 and withstand temperature 750° C.

### Sheets are characterized by:

- High flexural modulus
- Good heat deflection temperature
- Low shrinkage
- Self-extinguishing properties



Because of the insulating and self-extinguished characteristics, the sheets are most appropriate for application in electrical distribution enclosures as a back walls and also for independent walls.



# SOUND PROOFING



Noise pollution effects human health and lowers the quality of life. Long-lasting and excessive exposure to noise negatively influences the overall state of health, decreases concentration, etc.

**IN ORDER TO REDUCE THE TRANSFER OF NOISE DIFFERENT SOUND INSULATION MATERIALS MAY BE USED.**

Sheets can be used as an independent membrane or in combination with plywood, where the membrane is introduced between two sheets of the plywood.

Isoform sheets for sound insulation are designed to effectively reduce external and internal noise in public transport vehicles like buses, tramcars, passenger wagons; in shipbuilding industry like ships, yachts, motorboats; in HVAC (Heating, Ventilation and Air Conditioning) technology like compressors, individual heat pumps.



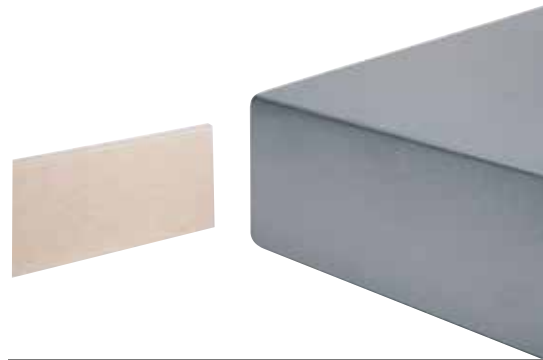
**Isoform sheets for sound insulation are made in different variations and may vary depending on:**

- Density
- Base thermoplastic elastomer
- Both or one side fleece for gluing
- Self-extinguish properties



**ISOFORM** EXTRUDED

# FURNITURE INDUSTRY



**SURFACE TREATMENT  
IS MADE BY FLAME  
AND IT IS EFFECTIVE  
LONG-TIME.**

A composite material from polypropylene and fine soft wood fibers.

Extruded in sheets and both side surface treated.

WPC material as alternative to ABS, PVC & veneer edgbanding

## Advantages of Material:

- Alternative to ABS, PVC and veneer edge-banding
- Low moisture absorption-reduced swelling and shrinking
- Simple gluing with PU, EVA etc.hot melt glues
- Simple varnishing with standard wood varnishes and colours
- Shrinkage and expansion performance are similar to base board even temperature varies a lot
- Simple cutting
- Useful also for small radius curved edges





# ORTHOPAEDICS

Isokon is one of the leading manufacturers of semi-finished plastics used in the field of orthopaedics technology – for premium-quality orthoses and prostheses

## ISOFORM ISORTHO



Our range of products allows a wide variety of processing methods. The following technical overview describes treatment applications for thermoplastics and recommendations for each material.

HDPE, PP, LDPE and EVA Sheets are available in Natural as well as Skin colours. They are used by various Orthotic & Prosthetic Aids manufacturing units across the world. The quality is well established in the market especially in the Orthopaedics Aids manufacturing units.

Thermoplastic HDPE, PP and LDPE sheets are suitable for orthopaedics purposes because of their special properties, such as quick and easy processing, minimum weight, excellent hygienic characteristics as well as outstanding strength, stiffness and shape retention.

ISOFORM EXTRUDED

# BUILDING CONSTRUCTION



A COMPOSITE  
MATERIAL BASED ON  
POLYPROPYLENE AND  
WOOD FIBRES

Extruded sheets with an additional adhesive layer on one side, it is ideal for use as a contact layer for construction boards for form work. It is ideal for gluing on the various wood core constructions by applying phenolic, melamine or other glues well-known in the wood industry.

## Advantages of the IF LIP contact layer:

- A long lifetime of construction boards, enabling up to 200 use cycles when handled appropriately
- Constant quality of the concrete surface during the whole period of use
- Good nailing properties
- Low sensitivity to damage
- Good chemical and UV resistance
- Low moisture absorption
- Low susceptibility to ageing
- Easy cleaning by using high pressure water jet cleaning equipment
- Recyclable
- Environmentally friendly, formaldehyde and solvent free material



FABAC material is extruded polypropylene sheet with polyester fabric backing. The polyester fabric backing gives ability to bond polypropylene sheet with other materials.

## POLYPROPYLENE POLYESTER FABRIC BACKED

### Key benefits:

- Production of lightweight structures
- Excellent physical characteristics
- Excellent welding properties
- Very good chemical and corrosion resistance
- High heat resistance

### Technical product data:

- Maximum width: 1,500mm
- Maximum length: 3,000mm
- Rolls are available upon agreement
- Thickness: 2-12mm
- Colors: standard is grey; other colors are possible

### General Application:

- Chemical tanks
- Industry vessels
- GRP composite construction
- Chemical equipment



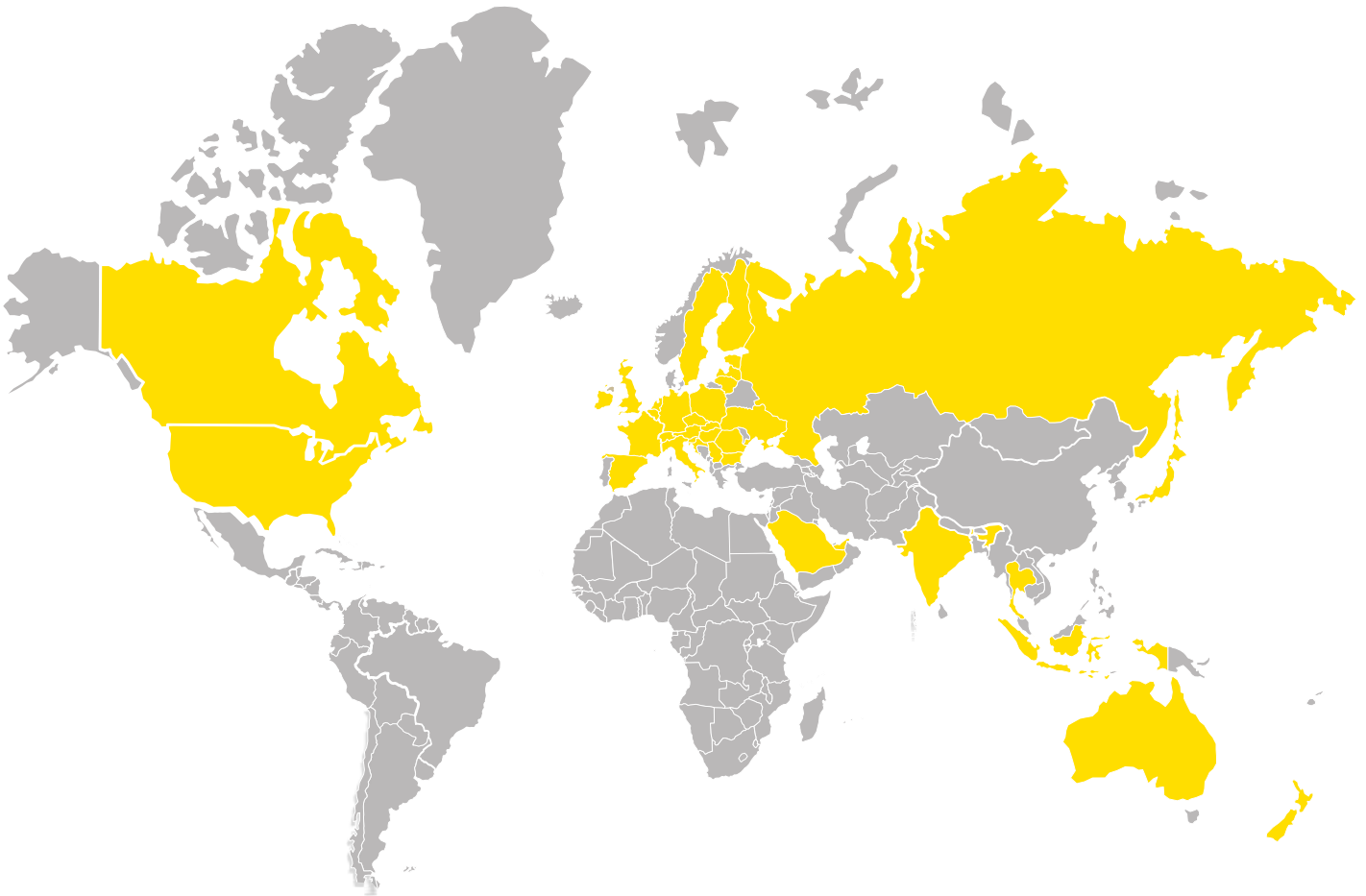
---

# ISOTRACK

PROTECT – BE SAFE

For safe, heavy duty temporary access across soft ground in extreme wet weather conditions, for difficult conditions in construction, transport or various events.

## TEMPORARY ROADWAYS- ACCESS AND GROUND PROTECTION MATS



# WIDE PRODUCT RANGE

**ISOTRACK X** SERIES



**ISOTRACK H** SERIES



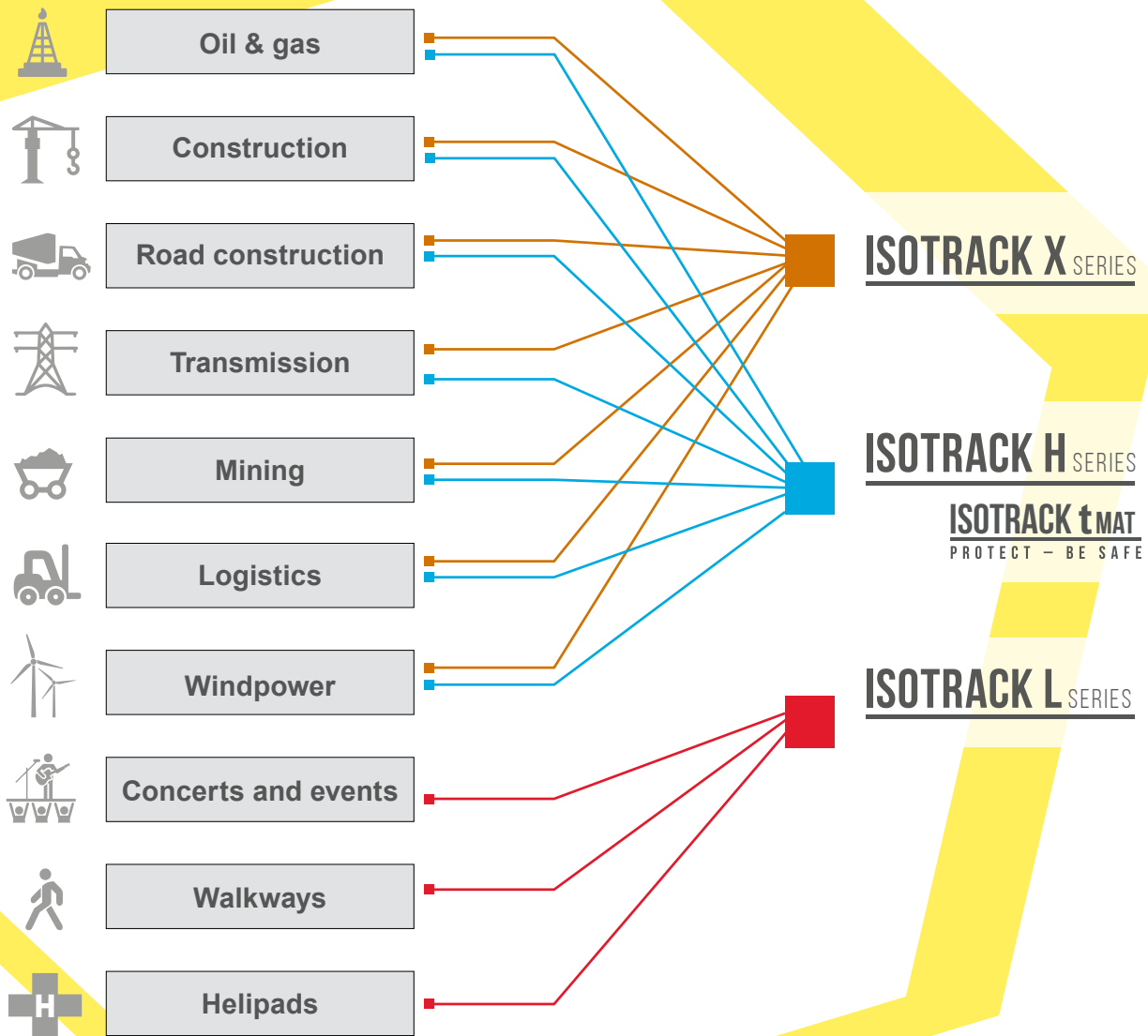
**ISOTRACK L** SERIES



**ISOTRACK t** MAT



# RELIABLE SOLUTIONS FOR VARIOUS FIELDS OF APPLICATION



# ISOTRACK X<sub>SERIES</sub>

Isotrack X series advanced design provides temporary roads, work sites and staging areas where soft or boggy ground prevents safe access. Its cellular core can withstand high compressive loads (>605 psi) and the overlap and connection system creates a safe, continuous and stable work surface.



## General information

Overall Dimensions	4000 x 2000 mm
Thickness	Total 102 mm, Core 94 mm
Overlap	200 mm
Useable Surface Area	1,8 x 3,8 m = 6.84 m <sup>2</sup>
Weight	360kg
Colour	Sand (standard), other colours subject to minimum order quantity
Transport	Standard high cube 40 feet container 52 mats, Mega Truck standard EU 60 mats
Handling and Installation	Easily handled and installed using different types of equipment
Recycling	100% recyclable

Safety	Surface structure designs provide excellent traction for vehicles
Environmental	No liquid absorption, chemically inert, allows easy decontamination-cleaning
Compressive load capacity:	Can withstand 415 t/m <sup>2</sup> (605 psi) without deformation or breakage
Load bearing capacity	In excess of 200t*
Operating Temperature Range	- 40°C to + 80°C
Fire Rating	UL 94HB
AST additive	Tested according to DIN standard IEC EN 62631-3-2:2016
RFID or GPS Tags	Option to install your tag of choice within weather proof pocket.

\* Load bearing capacity is dependent on ground conditions.



# APPLICATIONS-MAIN SECTORS

- Construction and civil engineering
- Utilities
- Oil and gas
- Petrochemical
- Transmission
- Windfarms / renewable energy projects
- Drilling contractors
- Pipelines
- Quarries and mining
- Commercial timber and woodland operations
- Events
- Any project requiring safe temporary access and work areas for heavy vehicles and equipment



## KEY FEATURES

- Outstanding compressive strength - more than 415 tonnes/m<sup>2</sup> reaching max force 730 tonnes/m<sup>2</sup>\*
- Each mat has two excellent different traction surfaces for tyres and steel tracks
- Market leading surface Isotraction™ design for safe vehicle operation
- Foam filled core prevents water ingress if mat is punctured (no cross contamination and no additional weight)

## KEY BENEFITS

- Compression moulded high performance thermoplastic material
- Robust, durable, high-performance mat
- Overlap lip design for interlocking mats to make roadways, or working pads, parking and turning areas
- Fast Four3 connector pin system
- Cellular core construction provides buoyancy in water-logged areas
- Stability and support for vehicles and equipment across a wide range of ground conditions
- Reduce dust pollution on dry soils
- Protect sensitive habitats
- Customer logo option
- Long life and recyclable at end of life
- Accessories include turning pieces and on/off ramp

# ISOTRACK H SERIES

Isotrack H series is the leading heavy duty, solid composite mat for temporary access and ground protection. It can be easily installed to provide roadways, work sites and staging areas and does not require any ground preparation. It incorporates the market leading Isotraction™ surface for safe vehicle operation as well as a surface designed for steel tracked equipment operation.



## General information

Overall Dimensions	3000 x 2500 mm	Handling and Installation	Mat incorporates lifting points. Can use lifting hooks, slings, eye bolts, forklifts or vacuum lifting equipment
Thickness	Total 46 mm, Core 38 mm	Connection	Using standard M16 bolts with steel or flexible straps. Steel reinforced connection points.
Useable Surface Area	7,5 m <sup>2</sup>	Recycling	100% recyclable
Weight	295 kg	Safety	Surface structure designs provide excellent traction for vehicles
Material	Recycled HDPE	Environmental	No liquid absorption and chemically inert. Easy to clean/decontaminate
Colour	Black (standard), other colours optional subject to minimum order quantity	Load bearing capacity	Ideal for supporting vehicles and equipment up to more than 100 tonnes*
Transport	Open top standard high cube 40' container 66 mats, Mega Truck standard EU 75 mats	Fire Rating	UL 94HB

\* Load bearing capacity is dependent on ground conditions.



# APPLICATIONS-MAIN SECTORS

- Construction and civil engineering
- Utilities
- Oil and gas
- Petrochemical
- Transmission
- Windfarms / renewable energy projects
- Drilling contractors
- Pipelines
- Quarries and mining
- Commercial timber and woodland operations
- Events
- Any project requiring safe temporary access and work areas for heavy vehicles and equipment



## KEY BENEFITS

- Fast and easy to install using standard M16 bolts
- Install roadways, working pads, parking and turning areas
- Safe movement and access for vehicles, equipment and people
- Mats gently flex with ground contours – no ground preparation required
- Prevent severe rutting and damage – protect sensitive habitats and avoid ground reinstatement costs
- Prevent vehicles and equipment from getting bogged down - keep your project running and avoid delays
- Flexible but tough and durable mat for long life use
- Customer logo option
- Low theft risk compared to aluminium and steel mats
- Long life and 100% recyclable at end of life

## KEY INFORMATION AND FEATURES

- One piece compression-moulded, high-performance recycled thermoplastic material resistant to chemicals and oil and is UV protected
- Each mat has two different, excellent traction surfaces for safe movement of vehicles in dry or wet conditions.
- One surface has the market leading Isotraction™ design for safe vehicle operation and the second surface is designed for steel tracked equipment operation.
- Steel-reinforced lifting points

# ISOTRACK tMAT

Isotrack tMat is the leading heavy duty, solid composite mat for temporary access and ground protection, smaller dimension with difference in traction surface. It can be easily installed to provide roadways, work sites and staging areas and does not require any ground preparation. It incorporates the market leading Isotraction™ surface for safe vehicle operation as well as a surface designed for steel tracked equipment operation.



## General information

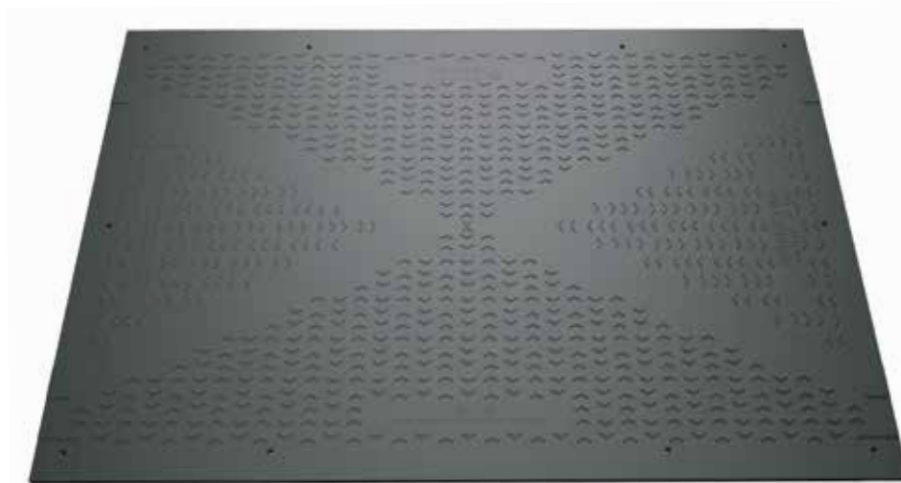
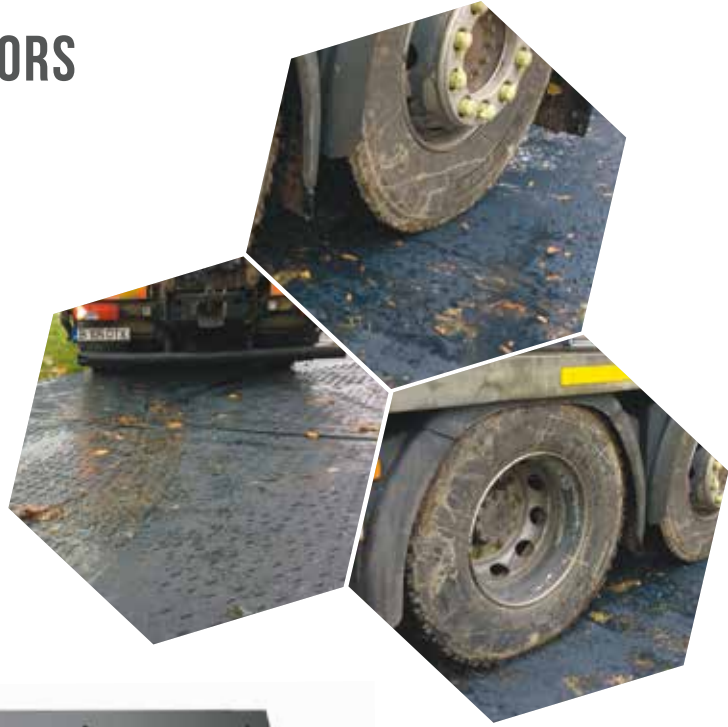
Overall Dimensions	3000 x 2500 mm	Handling and Installation	Mat incorporates lifting points. Can use lifting hooks, slings, eye bolts, forklifts or vacuum lifting equipment
Thickness	Total 47,5 mm, Core 38 mm	Connection	Using standard M16 bolts with steel or flexible straps. Steel reinforced connection points.
Useable Surface Area	6 m <sup>2</sup>	Recycling	100% recyclable
Weight	235 kg	Safety	Surface structure designs provide excellent traction for vehicles
Material	Recycled HDPE	Environmental	No liquid absorption and chemically inert. Easy to clean/decontaminate
Colour	Black (standard), other colours optional subject to minimum order quantity	Load bearing capacity	Ideal for supporting vehicles and equipment up to more than 100 tonnes*
Transport	Standard high cube 40 feet container 80 mats, Truck standard EU 96 mats	Fire Rating	UL 94HB

\* Load bearing capacity is dependent on ground conditions.



# APPLICATIONS-MAIN SECTORS

- Construction and civil engineering
- Utilities
- Oil and gas
- Mining
- Transmission
- Drilling contractors
- Events
- Any projects requiring safe temporary access for heavy vehicles and equipment



## KEY BENEFITS

- Support vehicle and equipment weights up to 150 tonnes\*
- Easy and quick to unload using lifting equipment or forklifts
- Install roadways, working pads, parking and turning areas
- Safe movement and access for vehicles, equipment and people
- Mats gently flex with ground contours – no ground preparation required
- Prevent severe rutting and damage – avoid ground reinstatement costs
- Prevent vehicles and equipment from getting bogged down - keep your project running and avoid delays
- Flexible but tough and durable mat for long life use
- Low theft risk compared to aluminium and steel mats
- 100% recyclable at end of life

## KEY INFORMATION AND FEATURES

- Manufactured to the highest quality standards
- One mat but two different traction surfaces – rugged surface for vehicles with rubber tyres and low profile traction surface for steel tracks and pedestrian use
- Steel reinforced lifting points
- Customer logo option

# ISOTRACK L SERIES

Isotrack L series is the premium lightweight man-handable, temporary access and ground protection mat with a wide range of uses including roadways and trackways, smaller construction projects, landscape projects, events and more. It has two surface structures - for vehicle and pedestrian use – as well as elongated connection holes for easier installation.



## General information

Overall Dimensions	2410 x1200 mm	Handling and Installation	Handhold cut-outs and hand grips for easy handling – two-person lift. No specialist tools or equipment required.
Thickness	Total 20 mm, Core 12 mm	Recycling	100% recyclable
Useable Surface Area	2,89 m <sup>2</sup>	Safety	Surface structure designs provide excellent traction for vehicles
Weight	36 kg	Environmental	No liquid absorption and chemically inert. Easy to clean / decontaminate
Colour	Black (standard) Other colours subject to minimum order quantity	Load bearing capacity	Ideal for supporting lighter vehicles and equipment up to 20 tonnes on softer ground and more than 50 tonnes on firm ground*
Transport	Standard high cube 40' container 560 mats, Truck standard EU 650 mats	Fire Rating	UL 94HB

\* Load bearing capacity is dependent on ground conditions.





# APPLICATIONS-MAIN SECTORS

- Utilities
- Construction and civil engineering
- Drilling contractors
- Transmission
- Renewable energy
- Events
- Emergency access
- Temporary road and work areas
- Hard and soft landscaping work
- Sports facilities and recreational grounds
- Pedestrian walkways
- Any project requiring safe temporary access for vehicles, pedestrians and equipment



## KEY BENEFITS

- Man-handable mat – two person lift and easy handling using the hand cut-outs or hand grips
- Fast and easy to install using a choice of connection options
- Solid, compression-moulded high performance thermoplastic material resistant to chemicals and oil and is UV protected
- Flexible but tough and durable mat for long life use
- 100% recyclable at end of life

## KEY INFORMATION AND FEATURES

- Each mat has two different, excellent traction surfaces for safe movement of vehicles and pedestrians.
- One surface has the market leading Isotraction™ design for safe vehicle operation in dry or wet conditions.
- Unique elongated connector hole design to enable adjustment if thermal expansion or contraction occurs.
- Customer logo option

# KOPLAST

## EXTRUDED PROFILES FOR VARIOUS INDUSTRIES



The company is for several years a supplier of PVC profiles for all major manufacturers in the caravaning industry for the markets of Slovenia, Germany, Austria, Italy and France. The ability of our own technological development and the execution of PVC profiles gives us a competitive position in the market.

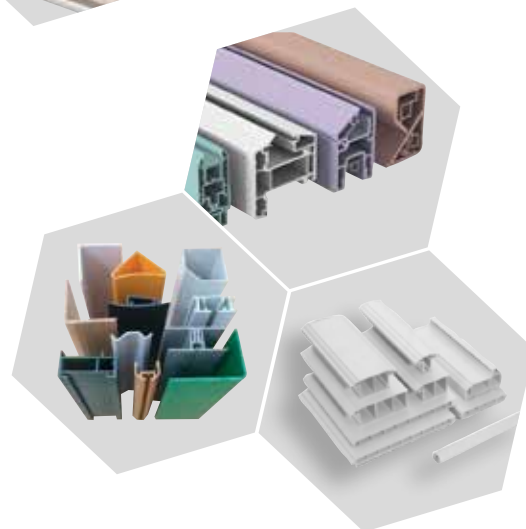
---

## ROLLING DOORS

The shutter doors manufactured by the company Koplast are intended for use in the caravanning industry. They can be installed as sliding doors for closing drawers and cabinets, as well as bathroom doors.

They are made with special technology, in various colour shades, are silent during the drive and do not cause any noise.

They can be guided with top and bottom guides, or they can be guided through a channel in a thermoplastic shower cubicle.



---

## PROFILES ACCORDING TO MEASURE

With the help of our own development and technology department, we are able to design, construct and develop different profile types according to the requirements of our customers.

---

## PROFILES

On eight extrusion lines, we are able to produce profiles that weigh between 0,1 and 2,0 kg/m and can reach a maximum of 6m in length. The profiles can be produced opened, without chambers, or closed with chambers.

Products could also be co-extruded and made from two or more different materials, for example soft and hard materials.



## EXTRUDE

For the extrusion of plastic materials, we have 8 production lines, which means that we can produce 7.2 million meters of profiles annually.

PVC (hard soft), PA, PE, ABS, TPE, SMMA, PVC, ABS, PA, PP, HDPE



## LAMINATE

We can coat the profiles of different shapes with films of different quality, which are necessary for both indoor and outdoor use. With the paper, plastic and metal foils as well as micro foils, we achieve an effect of wood, marble, metal design and other designs.



## WELD

Would you like us to link your profiles into a framework? We can offer that too. We can weld them together with the help of different connecting elements, screws, ...



## BEND

Our equipment allows us to turn different profiles according to your wishes. The minimum radius of the curvature is 30 cm (depending also on the profile shape) and combinations of different curvatures or curvatures and straight parts are also possible.

## CNC

With the latest CNC machine, we can also process profiles and adapt them to your requirements, such as openings for the installation of luminaires or the like.



**Isokon d.o.o.**

Industrijska cesta 16  
3210 SLOVENSKE KONJICE  
SLOVENIJA

T: +386 (0)3 757 11 00  
F: +386 (0)3 757 10 63  
e-mail: [sales@isokon.si](mailto:sales@isokon.si)

[www.isokon.si](http://www.isokon.si)  
[www.funice.si](http://www.funice.si)  
[www.isotrack.eu](http://www.isotrack.eu)  
[www.isotrack.in](http://www.isotrack.in)  
[www.isokon-russia.ru](http://www.isokon-russia.ru)