

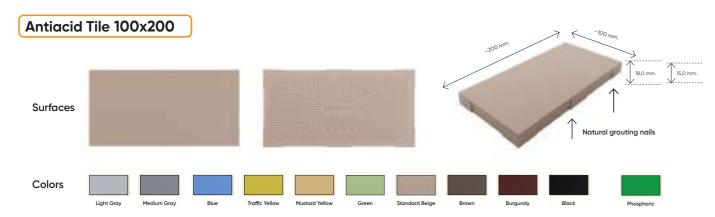
Antiacid Tile

Hexagon Antiacid Tile 100x116 Surfaces Colors Light Gray Medium Gray Blue Traffic Yellow Mustard Yellow Green Standard Beige Brown Burgundy Black Phosphoric

Description
They are produced in hexagonal form, 100x116 mm. dimensions and 15.0 and 18.0 mm. thicknesses, with W6 adherence channels on the back to increase adhesion strength, tapered edges and natural grouting nails, surface slip resistance classes R9, R10, R11 and R12.
They are non-porous products with low water absorption values, easy to clean, resistant to acids and chemicals and do not produce bacteria. Hexagonal tiles are even more resistant to impacts and heavy loads due to their size and form.

Hexagon Antiacid Tile 150x175 Surfaces Colors Light Gray Medium Gray Blue Traffic Yellow Mustard Yellow Green Standard Reige Brown Burgundy Black Phosphoric

Description They are produced in hexagonal form, 150x175 mm. dimensions and 15.0 and 18.0 mm. thicknesses, with W6 adherence channels on the back to increase adhesion strength, tapered edges and natural grouting nails, surface slip resistance classes R9, R10, R11 and R12. They are non-porous products with low water absorption values, easy to clean, resistant to acids and chemicals and do not produce bacteria. Hexagonal tiles are even more resistant to impacts and heavy loads due to their size and form.

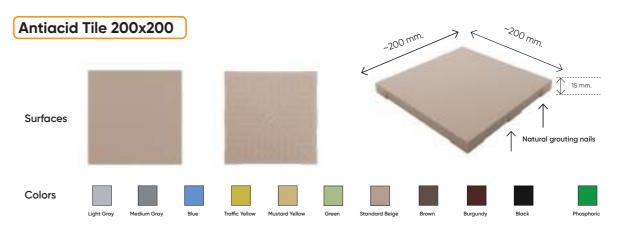


Description Anti-acid Industrial Tile products in 100x200 mm. dimensions and 15.0 and 18.0 mm. thickness. Produced with W4 adherence channel and conical back to increase adhesion strength, surface slip resistance in R9, R10, R11 and R12 classes. They are non-porous products with low water absorption values, easy to clean, resistant to acids, chemicals and do not produce bacteria.

Antiacid Tile



Description They are produced in hexagonal form, 100x150 mm. dimensions and 15.0 mm. thicknesses, with W6 adherence channels on the back to increase adhesion strength, tapered edges and natural grouting nails, surface slip resistance classes R9, R10, R11 and R12. They are non-porous products with low water absorption values, easy to clean, resistant to acids and chemicals and do not produce bacteria. Hexagonal tiles are even more resistant to impacts and heavy loads due to their size and form.



Description 200x200 mm. dimensions and 15.0 mm. thicknesses, with W6 adherence channels on the back to increase adhesion strength, tapered edges and natural grouting nails, surface slip resistance classes R9, R10, R11 and R12. They are non-porous products with low water absorption values, easy to clean, resistant to acids and chemicals and do not produce bacteria.



Description They are produced in hexagonal form, 150x200 mm. dimensions and 15.0 mm. thicknesses, with W6 adherence channels on the back to increase adhesion strength, tapered edges and natural grouting nails, surface slip resistance classes R9, R10, R11 and R12. They are non-porous products with low water absorption values, easy to clean, resistant to acids and chemicals and do not produce bacteria. Hexagonal tiles are even more resistant to impacts and heavy loads due to their size and form.

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W6 ANTI - ACID PORCELAIN TILES (Hexagonal 10x20, 20x20)

EN 14411 (ISO 13006) Annex G (normative) Dry-pressed ceramic tiles with low water absorption E \leq 0,5 % Group Bla GL Thickness: 15.0 mm. - 18.0 mm. HEXAGONAL/ 100X116 PORCELAIN TILES DECLARED VALUES SYMBOLLS **NORMS** TECHNICAL CHARACTERISTICS REQUIRED VALUES Avarage values of production Length and Width 7≤N<15 ± 0,9 mm. ± 0,4 mm. Thickness 7≤N<15 ± 0,5 mm. ± 0,3 mm. Dimensions and ISO 10545-2 surface quality A minimum of 95 % surface of the tile No any visible defect shall be free from visible defect that Surface Quality of 95% on surface of would impair the appearence of a the tile major area of tiles. ISO 10545-3 Water absorption E≤ 0.5% , (individual max.) %0,6 max % 0,05 Breaking Strength Thickness ≥ 7.5mm. S ≥ 1300 N 3500 ISO 10545-4 (Newton) R ≥35 N / mm² 45 Modulus of rupture (N/mm²) Impact resistance by measurement of coefficient of ISO 10545-5 Manufacturer to state classification 0.87 restitution Class:3, ISO 10545-7 Resistance to Surface abrasion_intended for use on floors Reported abrasion class and cycles Cycle: 750 ISO 10545-8 5,95 x 10-6 °C Determination of linear thermal expansion Manufacturer to state classification ISO 10545-9 Resistance to thermal shock Required Resistant (A)>) ISO 10545-10 Moisture expansion, in mm. / m. Manufacturer to state classification 0.1 (2) ISO 10545-11 Crack resistant Required Resistant ISO 10545-12 Frost resistance Required Resistant Resistance to low concentrations of acids and alkalis Manufacturer to state classification LA ISO 10545-13 Resistance to high concentrations of acids and alkalis Test method available НΑ Resistance to household chemicals and swimming pool Min. Sınıf B Α salts * ISO 10545-14 Min. 3 5 Resistance to stains Manufacturer to state classification ISO 10545-15 Lead and cadmium given off by tiles Pb <0,1 Cd<0,01

 (mg/dm^2)

Glazed ∆E < 0,75

Test method available

Test method available

Not any noticable color change

ΔE (0,75

R=10

Resistant

NOTES

RECOMMENDS A JOINT OF MIN. 3 mm. FOR OPTIMAL INSTALLATION RESULTS.

ISO 10545-16

EN 101

CEN/TS 16165

DIN 51130

DIN 51094

Minor color differences

Surface hardness Mohs

Color resistance to light

Skid resistant

Anti-Slip Safety Values

Anti-Slip Values	Tilt Angle	
R 9>	6°-10°	
R 10	>10°-19°	
R 11	>19°-27°	
R 12	>27°-35°	
R 13	>35°	





20x20 Wall Tile

Matte glazed porcelain Wall tile in 20x20 cm. sizes and 7-8 mm. thickness. These products are easy-to-clean, It can be applied in various places, including interior walls of facilities, kitchens, dressing rooms, WC's and bathrooms.

Size: 200x200 mm.







Matt Light Grey 200x200 mm.



Matt Beiege 200x200 mm.

Product Code: FVSMBY2002007-5 Product Code: FVSMBG2002007-5 Product Code: FVSMBE2002007-5

Stainless Steel Profiles

Product Code: PRFSS450-CFTPGP



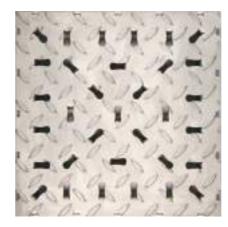
Product Code: PRFSS450-PGP000



The drain frames, expansion joints profiles, channel and edge protect profiles are produced with AISI 304 or AISI 316 class stainless steel materials. These profiles can be produced in standards or in according to your project.



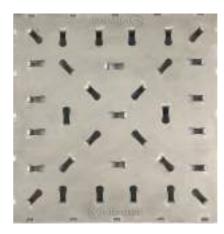
Stainless Steel Tile



Product Code: KPK300-03003003 Non-Skid Surface Stainless Steel Tile AISI 304 L 300x300x3-4 mm



Product Code: KPK150-03001503 Non-Skid Surface Stainless Steel Tile AISI 304 L 300x150x3-4 mm.



Product Code: DPK300-03003003 Smooth Surface Stainless Steel Tile AISI 304 L 300x300x3 mm.



Product Code: DPK150-03001503 Smooth Surface Stainless Steel Tile 304 L 300x150x3 mm.

These AISI 304 or AISI 316 class stainless steel products are used in cold/hot room transition, corridors that are affected by temperature differences, and at joints of products with different types, mainly building dilatations, loading and elevator doorsteps with intense and heavy load traffic and ramps. It produced with slip resistant surface and flat surface options.





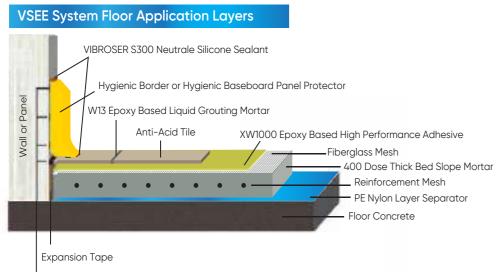
Vibrational Floor Application Systems

The VSEE Vibration System with epoxy based adhesive "XW1000" and liquid epoxy based grouting mortar "W13;

(-40° - +70°) The VSEE system is globally accepted floor tile application system; mainly in food facilities in all developed countries and known as the vibrational method, too. The system uses: epoxy-based adhesive which in turn has a much higher bonding force and is the best among the analogues; liquid grouting for filling joints based on epoxy for hardware application.

The VSEE system contents, are specially developed for vibration application method, with much higher bonding force than its counterparts, the "XW1000" is the epoxy-based adhesive which it has CE certificate and "W13" epoxy-based liquid grouting mortar which it is applied with machine system.VSEE is an indispensable solution for facilities that requires high mechanical strength. Time-saving system that solves the robust and longlasting floor needs of acidic and caustic environments in hot and cold warehouses of all kinds of meat, milk, fish, beverages and bakery processing areas. Saves time due to the application of 400 doses of thick bed slope mortar and tiles in the same day.

It is an affordable and guaranteed solution with the minimum maintenance cost in the long- term perspective.



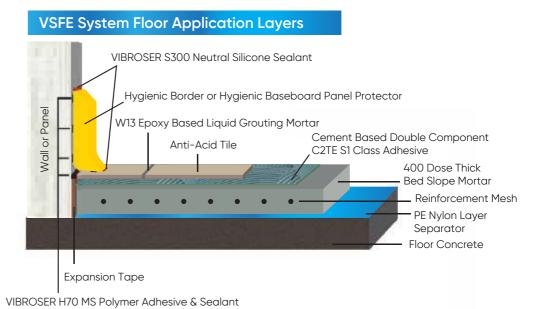




The VSFE Vibration system with flex adhesive and liquid epoxy based grouting mortar "W13"

(-50 - +500) An application with high bonding force, double component, cement based C2TE S1 class flex adhesive and liquid grouting for filling joints based on epoxy "W13" for hardware application. "W13" epoxy-based liquid grouting mortar which is applied with machine system. Especially suitable for industrial facilities that needs medium-low chemical resistance and medium-low mechanical strength. Time-saving system that solves the robust and long-lasting floor needs except acidic and caustic environments in hot and cold rooms of all kinds of meat, milk, fish, beverages and bakery processing. Saves time due to the application of 400 doses of thick bed slope mortar and ceramic tiles in the same day.

It is an affordable and alternative solution with the low maintenance cost.

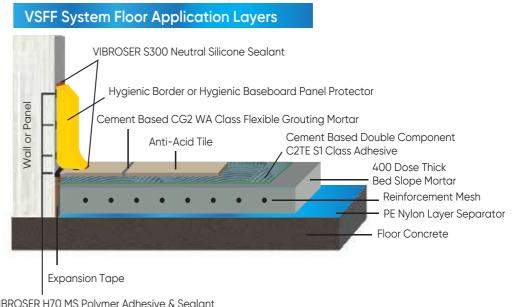


The VSFF Vibration System with flex adhesive and flex grouting mortar

(0° - +40°) An affordable application with advantages of high bonding force, double component cement based C2TE S1 class flex adhesive and CG2 WA class flex grouting mortar. Suitable for industrial facilities that need medium-low mechanical resistance (markets etc.) and works at dry and normal conditions.

The application saves time thanks to the application of 400 doses of thick bed slope mortar and ceramic tiles in the same day.

It is the most affordable and alternative solution with the low maintenance cost.



VIBROSER H70 MS Polymer Adhesive & Sealant

Epoxy Based Adhesives and Grouting Mortars



XW1000

EPOXY ADHESIVE AND REPAIRING MORTAR

Product Code: XW1000-0000EYTH

Gel (paste) type Epoxy - based tile adhesive and multi-purpose repairing mortar. It is solvent-free, with R2 class high bonding force which is specially designed for tile application in industrial facilities using vibration method.



W065

EPOXY ADHESIVE AND GROUTING MORTAR

Product Code: W065-00000EYDD

Paste type Epoxy - based tile adhesive, grouting mortar and repairing mortar for floors and walls. It is solvent-free, washable and has R2 and RG2 classes high bonding force.



W13 A+B EPOXY BASED LIQUID GROUTING MORTAR

Product Code: W13-0000LEDD0AB

Epoxy based, three components (A+B+C) grouting mortar which it is applying in a liquid form with machine system. It is solventfree, washable and has RG2 class high bonding force. It specially designed for industrial facilities.

EPOKSI C SPECIAL SILICA SAND Product Code: W13-0000LEDD00C



Silicon Adhesive and Sealant Mastics

VIBROSER H70

(MS POLYMER ADHESIVE AND SEALANT)



Product Code: VIBROSER-YDDH70

VIBROSER H70 is MS (Hybrid) Polymer adhesive which it can be used for adhering of hygienic panel protectors, metallic and plastics materials. Also, it is suitable for expansion joints as sealants in industrial floors. It has high bonding force and ISEGA certificate

VIBROSER \$300 (300°C NEUTRAL SILICONE SEALANT)



Product Code: VIBROSER-DDS300

VIBROSER S300 is a one-component permanently elastic neutral silicone sealant which can be used for places which require high temperature resistance up to 300°C.



RAPID

REPAIR MORTAR AND LIQUID JOINT SEALANT

Product Code: W13-0000LEDD0AB

It is an epoxy-based, fast setting, solventfree repair mortar with high adhesion strength and A+B+C three-component liquid joint filler developed for industrial facilities.

EPOKSI C SPECIAL SILICA SAND Product Code: W13-0000LEDD00C



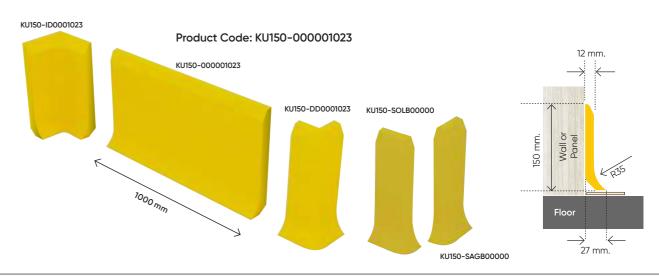
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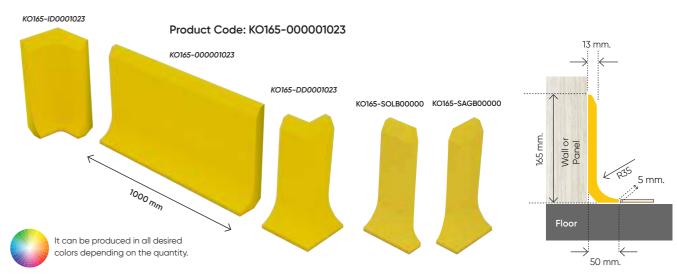


Hygienic Baseboard Panel Protector

These products protect panels, walls and columns against light and medium mechanical impacts. Hygienic baseboards are used in any area that require easy-cleanability and hygiene. Thanks to its acrylic material and non-porous surface, these products are resistant to acids and chemicals. Easy-to-clean and reduce bacterial growth because of its coving shape at the bottom. While ensuring protection against corrosion where the product is used, it also acts as a "caution tape" thanks to its bright attractive colour. It is produced in two types: sit-on type and in front of flooring. Due to its easy maintenance, these products are efficient and long-lasting solution.



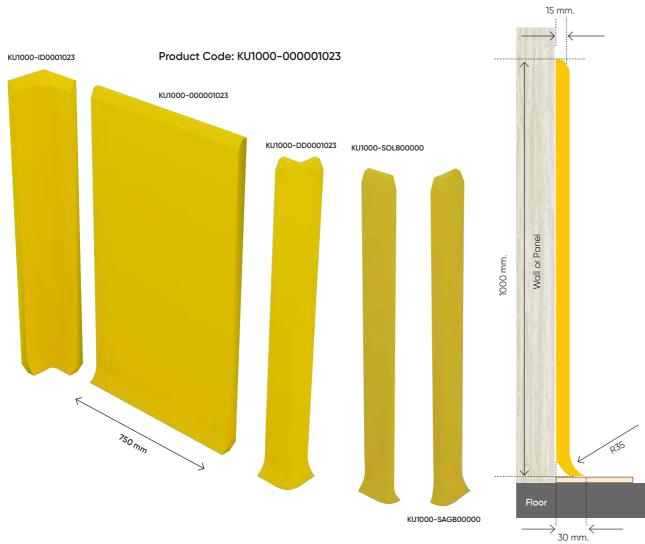






Hygienic Baseboard Panel Protector



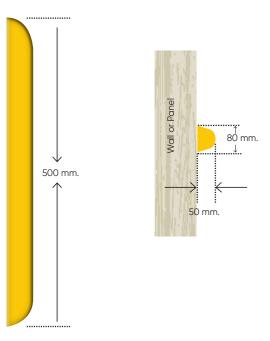






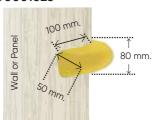
It ensures excellent protection against impacts and crashes thanks to its adjustable installation height. Due to its flexible nature while protecting walls and corners, it prevents damage of your valuable equipment that can result from crash and frictions. It provides an aesthetical appearance thanks to its shape and colour

Product Code: EDK50-00001023



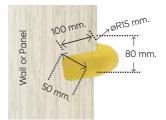
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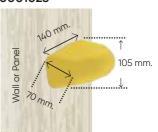
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Product Code: EDK100-00001023





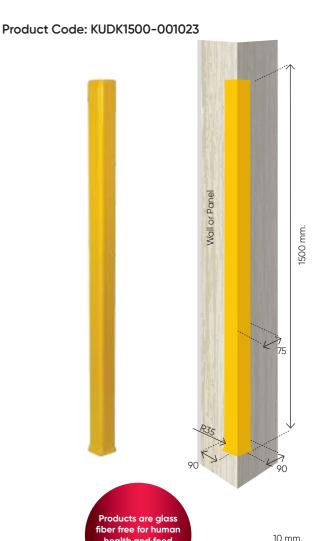


Hygienic Corner Protector

Perfectly protect the panel and wall corners against impact of the buggies and high shelf carriers due to its height- 150 cm.

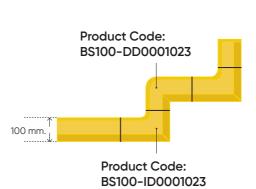
It protects against light and medium mechanical impacts.





Hygienic Step Baseboard

It is aesthetic and hygienic baseboard specially designed for stairs. Its are assembling as two parts and producing two type as flat nosing and drop nosing.

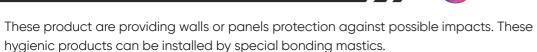






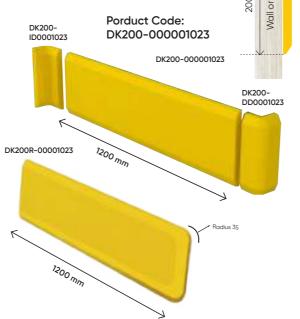
It can be produced in all desired colors depending on the quantity.

Hygienic Wall Protector



It protects against to light and medium impacts.

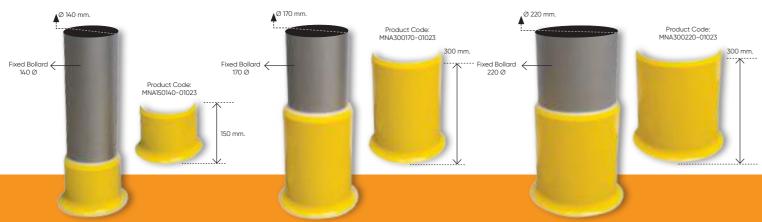




It can be produced in all desired colors depending on the quantity.

Hygienic Baseboard for Monorail and Bollard

Hygienic skirting products that protect the fixed bollards and monorail carriers against corrosion and provide easy cleaning at the bottom. It prevent the growing of the mold, fungus and bacteria. It protects against to light and medium impacts





Hygienic Panel Protectors Mechanical, Chemical, Anti-Microbial and Migration Test Results

Test	Unit / Chemical	Test Method	Referance Limit Value *	Measured Value	
Impact Resist	Kj/m²	TS EN ISO 179-1eu	≥ 10,00	13,77	
Impact Energy	j/m	TS EN ISO 179-1eu	≥ 100,00	136,45	
Water Absorbtion		Immersion Method (48 Saat/Hours - +24° C)	≤ % 0,8	≤ % 0,6	
Frost Resist	°C / h	In Deep Freezer (- 40° C / 72 Saat- Hours)			
Thermal Resist	°C/h	+ 70 °C / 12 Saat/hours + 80 °C / 12 Saat/hours + 90 °C / 12 Saat/hours	There should be neither damage nor change	There is neither damage nor change	
Reaction to Fire Classification		TS EN 13501-1 + A1:2013	E	E	
Chemical Resistance					
	Sodium Hydroxide (NaOH)%10 Sulphuric Acid (H ₂ SO ₂) %10 Hydrochloric Acid (HCL) %10 Propanol (C ₂ H ₂ O) Ethanol (C ₂ H ₂ O) Glycerin (C ₂ H ₂ O ₃) +90°C Water	1 ml. solution was applied for 20 minutes and then the sample was wiped clean with a damp cloth	There should be neither damage nor change	There is neither damage nor change	

Migration Tests

Analiz Adı / Analysis Name	Test Method	Result	LOQ	Requirement	Interpretation	
Test Condition: 3% Acetic Acid, 40°C, 30 Min. Specific Migration of Primary Aromatic Amines. Sum of: CAS: 00108-45-2 (mPDA), CAS: 823-40-5 (2,6-TDA), CAS: 95-80-7 (2,4-TDA), CAS: 2243-62-1 (1,5-DAN), CAS: 142-04-1 (ANL), CAS: 101-80-4 (4,4-DPE), CAS: 101-77-9 (4,4-MDA), CAS: 00119-93-7(3,3-DMB)	EUR 24815 EN 2011	Not Detected mg/kg	0,008 mg/kg	<= 0,01 mg/kg a	Pass	
Determination of Overall Migration (Acidic Food, Food Simulant B, Acetic Acid (3 %))*	TS EN 1186-9	EN 1186-9 3,2 mg/dm²		<= 10 mg/dm² a	Pass	
Determination of Overall Migration (Aqueous Food,Food Simulant A,Ethanol (10%))*	TS EN 1186-9	2,7 mg/dm²	1 mg/dm²	<= 10 mg/dm² a	Pass	
(Determination of Overall Migration (Fatty Food, Simulant for Simulant D2, Vegetable Oil) *	TS EN 1186-1, TS EN 1186-2	4,3 mg/dm²	4,3 mg/dm² 1 mg/dm²		Pass	
Migration of Copper (Cu)*	TS EN 13130-1 ISO 17294-1&2	Not Detected mg/kg	0.01 mg/kg	<= 5 mg/kg a	Pass	
Migration of Barium (Ba)*	TS EN 13130-1 ISO 17294-1&2	Not Detected mg/kg	0.01 mg/kg	<= 1 mg/kg a	Pass	
Migration of Zinc (Zn)*	TS EN 13130-1 ISO 17294-1&2	Not Detected mg/kg	0.01 mg/kg	<= 25 mg/kg a	Pass	
Migration of İron (Fe)*	TS EN 13130-1 ISO 17294-1&2	Not Detected mg/kg	0.02 mg/kg	<= 48 mg/kg a	Pass	
Migration of Cobalt (Co)*	TS EN 13130-1 ISO 17294-1&2	Not Detected mg/kg	0.005 mg/kg	<= 0,05 mg/kg a	Pass	
Migration of Lithium (Li)*	TS EN 13130-1 ISO 17294-1&2	Not Detected mg/kg	0.01 mg/kg	<= 0,6 mg/kg a	Pass	
Migration of Manganese (Mn)*	TS EN 13130-1 ISO 17294-1&2	Not Detected mg/kg	0.01 mg/kg	<= 0,6 mg/kg a	Pass	

*Marked analysis is in scope of Turkak accreditation

The reported uncertainty is an expanded uncertainty calculated using a coverage factor of 2 which gives a level of confidence of approximately 95%.

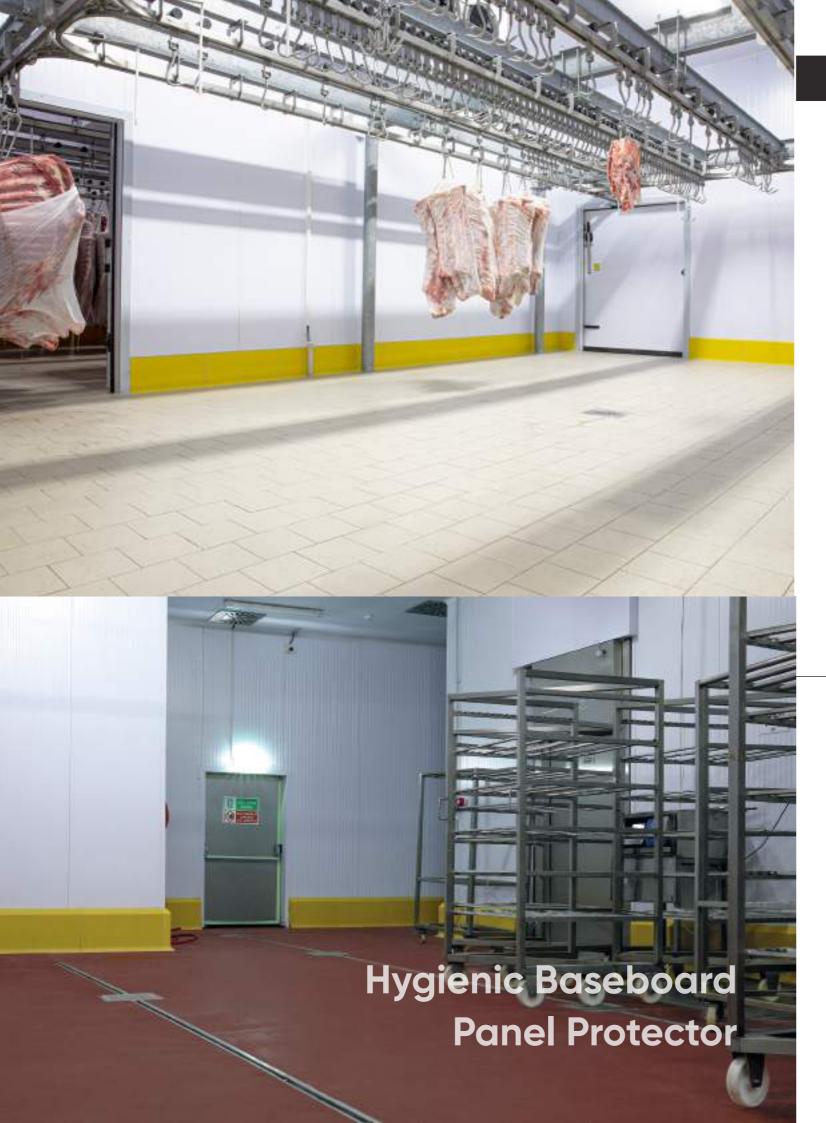
Due to customer demand analyses results were interpreted according to Turkish Food Codex Food Contact Matter and Material Communique 2013/34 and Commission Regulation EU No: 10/2011.

Anti Microbial Test

Name of Microorganisms	Inoculation of Microorganisms cfu/mL	Uo (cfu/mL)	Ut (cfu/mL)	At(cfu/mL)	R	Method	Requirement	Interpretation
Staphylococcus aureus ATCC 6538	1.3x10 ^s : 5.11	1.5x10³: 3.17	4.0x10 ² : 2.60	3.0x10°: 0.47	2.13	JIS 2801, 2012	≥ 2	P (Pass)
E. coli ATCC 25922	1.1x10 ⁵ :5.04	2.0x10 ³ :3.30	3.0x10 ² : 2.47	2.0x10°: 0.30	2.17		≥ 2	P (Pass)

R: (Ut-Uo)-(At-Uo)=Ut-At
Uo: Logaritmic mean value of uncured test samples immediately after inoculation (Uo) (0 hour)
Ut: Logaritmic mean value of uncured test samples at the end of 24 hours after inoculation.
At: Logaritmic mean value of cured test samples at the end of 24 hours.

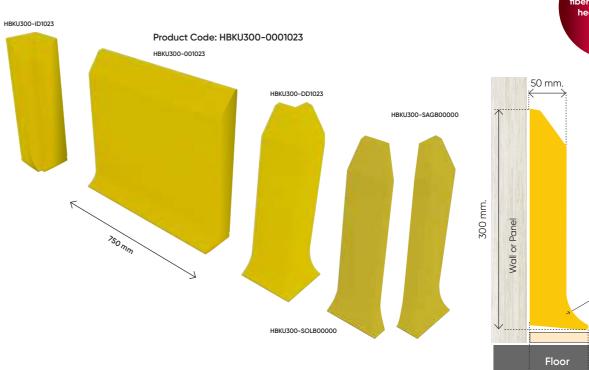
R: Antibacterial Activity Pass (P), Fail (F) Some analyses are performed and resulted for R&D purposes in scope of private demand.

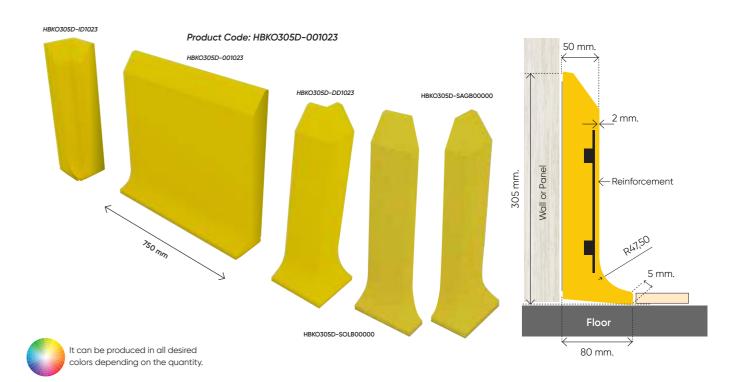


Hygienic Border Panel Protector

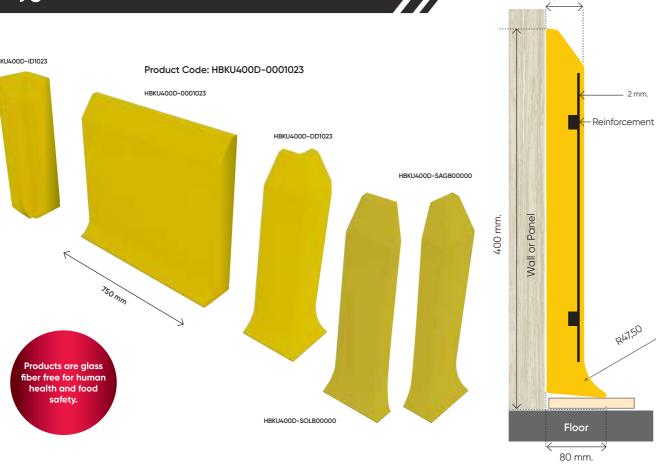
These products protect panels, walls and columns. Its resistance to light, medium and heavy impacts. These panel protectors are used in any area that require easy-cleanability and hygiene. Thanks to its acrylic material and nonporous surface, it is resistant to acids and chemicals. Thanks to its radius form at the bottom, it is easy-to-clean and reduces bacterial growth. While ensuring protection against corrosion where the product is used, it also acts as a "caution tape" thanks to its attention-grabbing color. It is produced in two types as on the flooring and in front of flooring.

Due to its easy maintenance, it is much more efficient and long-lasting solution. It is produced with reinforcement if required.

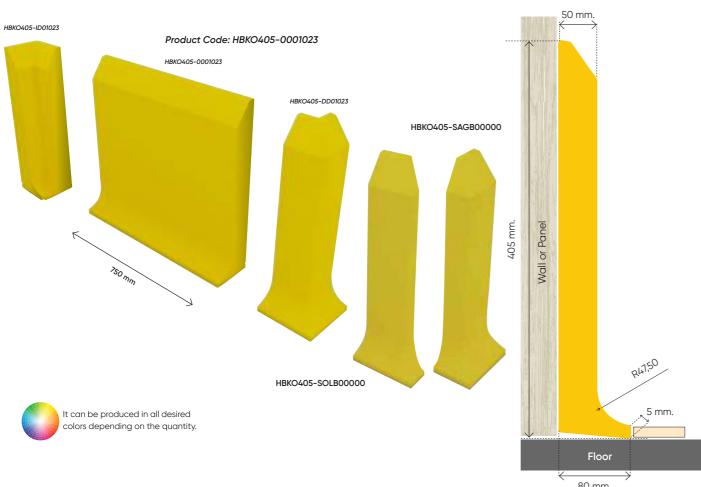




Hygienic Border Panel Protector





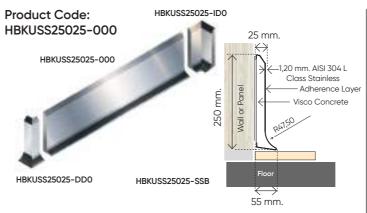


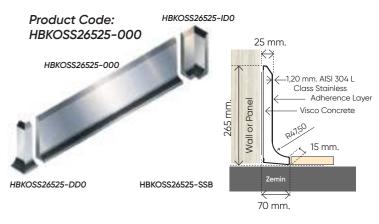


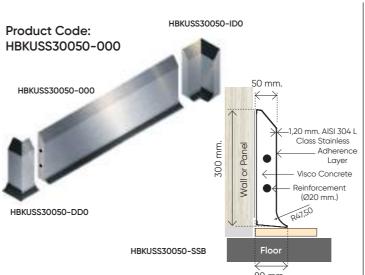


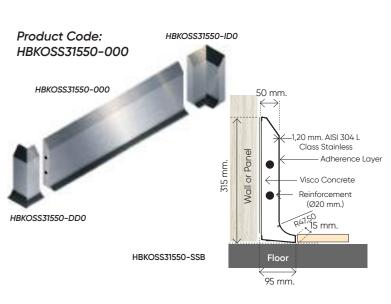
These AISI 304 or AISI 316 stainless surface products protect panels, walls and columns. They are used in any area that requires easy-cleanability and hygiene. Thanks to its non-porous surface and radial shape, it is resistant to acid and chemicals. Also easy-to-clean and reduces bacterial growth.

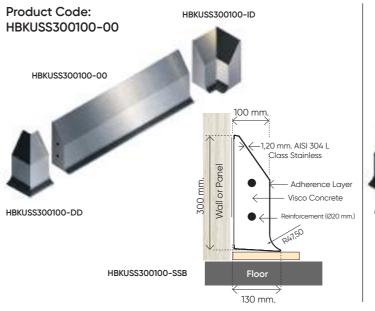
Due to its easy maintenance, it is efficient and long-lasting solution. It is produced with reinforcement if required.

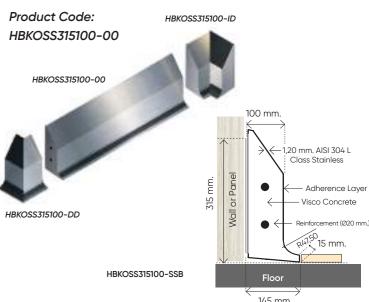






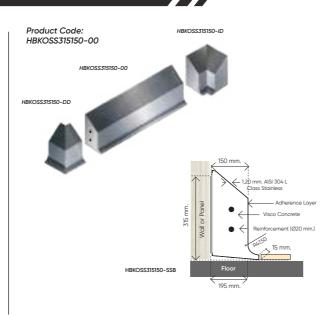


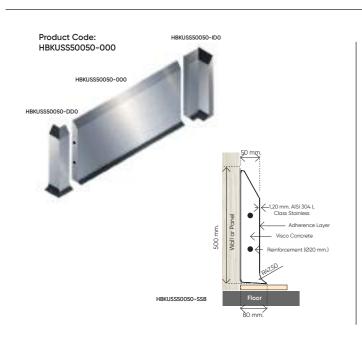


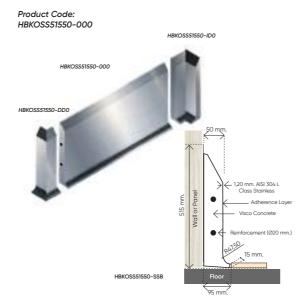


These products can be fixed to the floor with anchoring system.

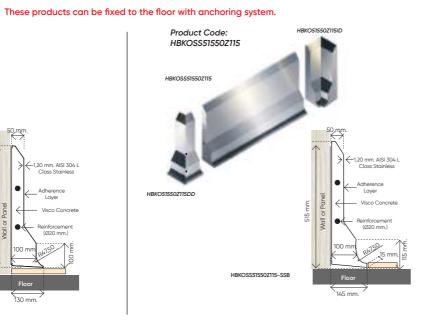
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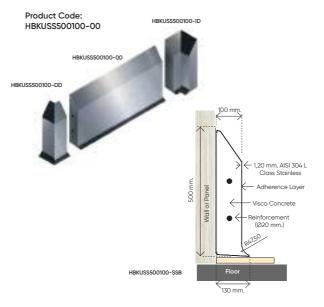


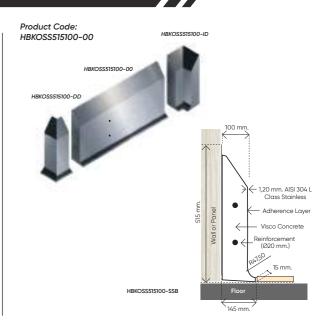


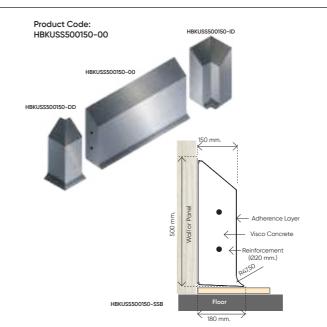
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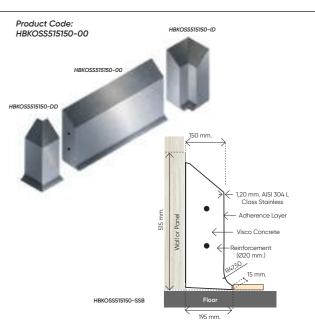


Hygienic Border Stainless Steel Panel Protector

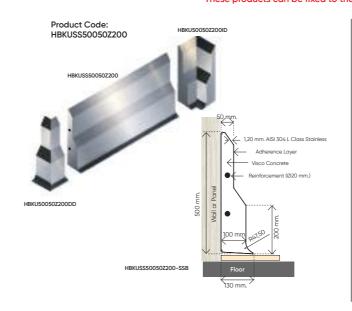


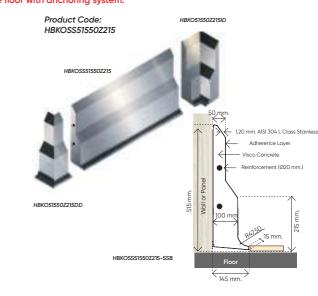


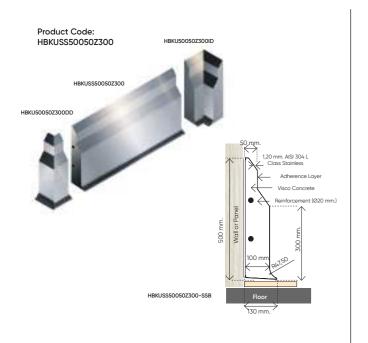




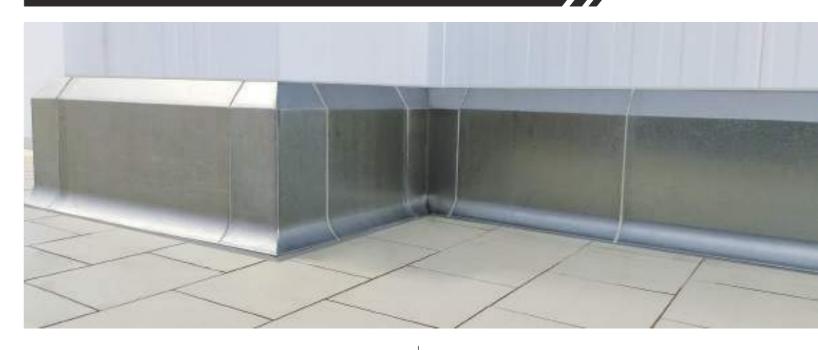
These products can be fixed to the floor with anchoring system.

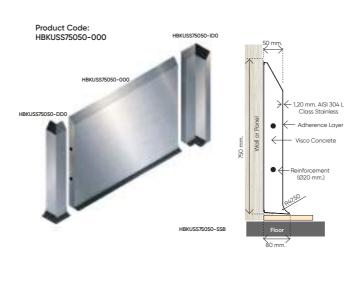


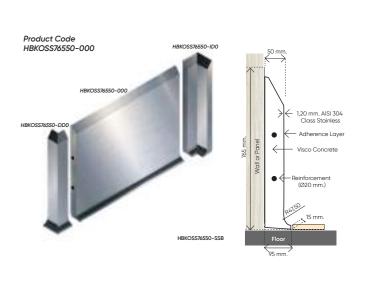


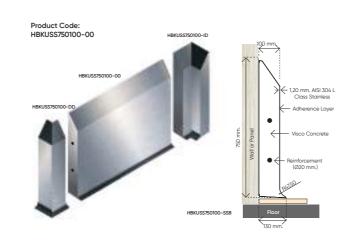


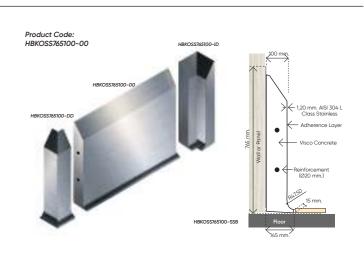




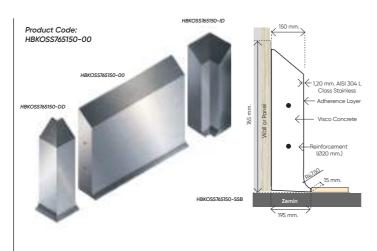


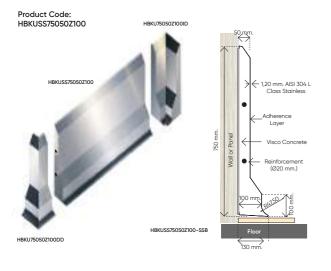


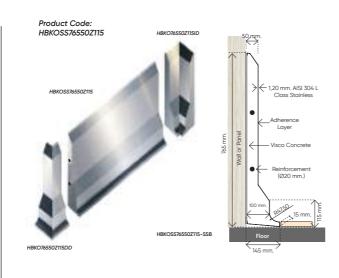




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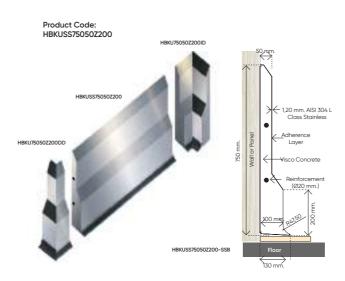


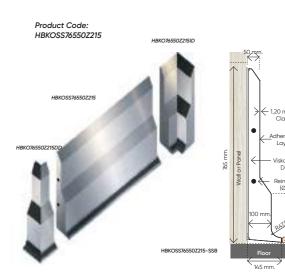


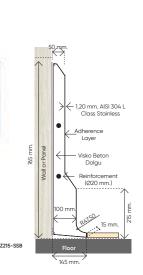
These products can be fixed to the floor with anchoring system.



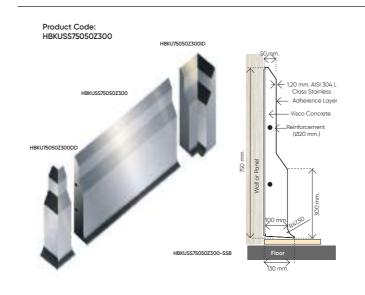


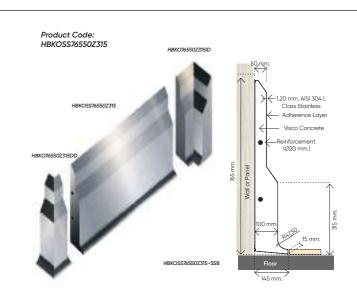


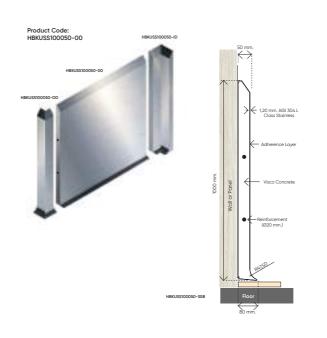


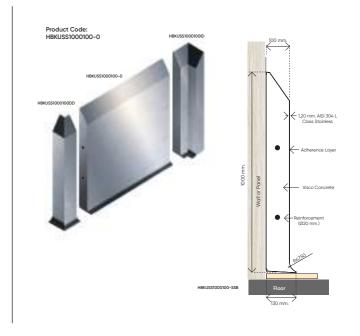


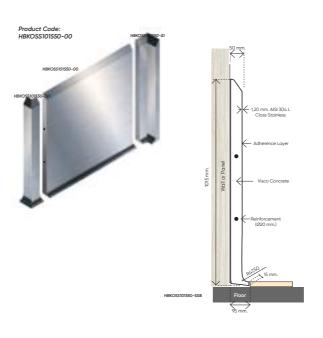
These products can be fixed to the floor with anchoring system.

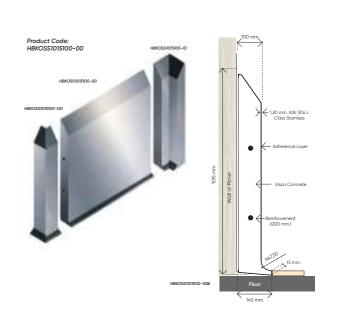






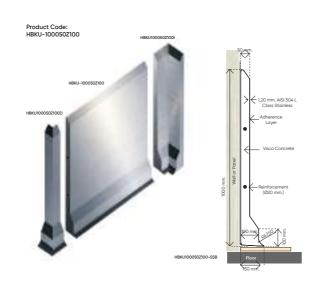


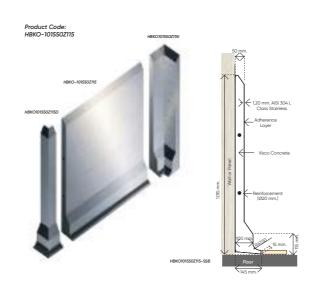




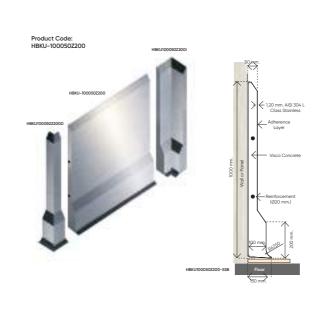


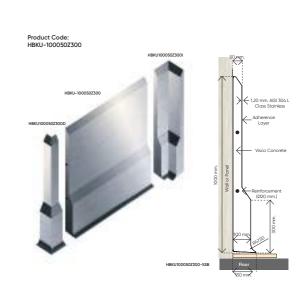
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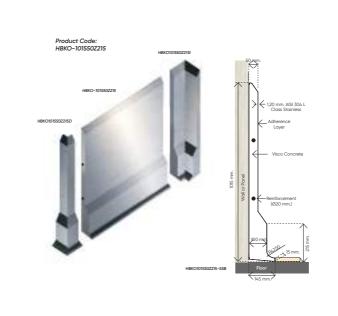


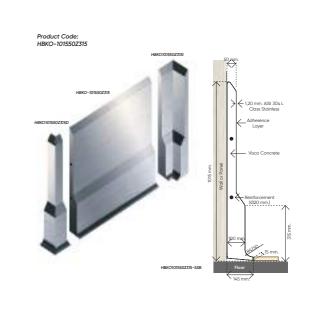












These products can be fixed to the floor with anchoring system.



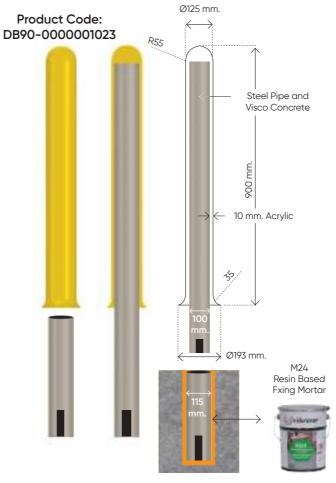
Hygienic Stainless Steel Safety Post (Bollard)

Hygienic Stainless Steel Safety Post (Bollard) ensures protection against impacts and crashes where needed. Including doors, walls, and columns. Due to its tube form and radial shape at the bottom, it reduces bacterial growth, easy-to-clean. On the surface bollard is covered by 2 mm. thickness AISI 304 or 316 class stainless steel and inside is filled by special polymer or visco-concrete. It can be installed by screwing system and it is easily fixed with "M24" Resin Based Fixing Mortar.





Hygienic Acrylic Safety Post (Bollard)



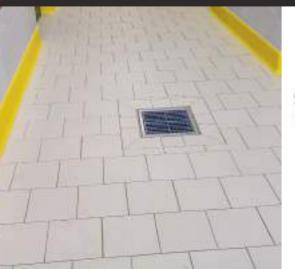
Safety Post (Bollard) ensures protection against impact and crashes where needed, including doors, walls, and columns. Due to its tube form and radial shape at the bottom, it reduces bacterial growth, easy-to-clean. These products allow for applications with double steel pipe and screwed system and it is easy-to-fixed with "M24" Resin Based Fixing Mortar. Due to its flexible acrylic surface, it can absorb light impacts, reduce medium impact forces and prevents damage to your valuable equipment.

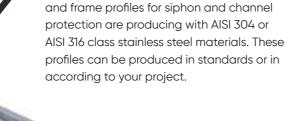




 $\frac{38}{2}$

Stainless Steel Drain Systems









The drain systems, siphons, drain channels









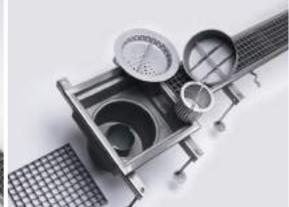


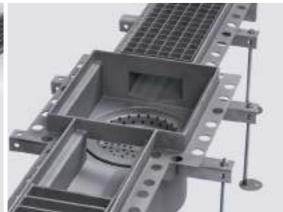












Work Safety Directional Signs

Work safety directional signs show directions for a long time with the stored energy in all areas such as factories, schools, cinemas, subways, etc. in case of sudden power outages.

Product Code: YT01-CKSIGYT000



Product Code: YT02-EXTIGYT000



Product Code: YT03-SRTIGYT000



Product Code: YT04-PBXIGYT000



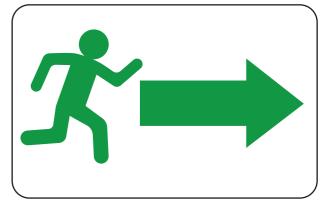
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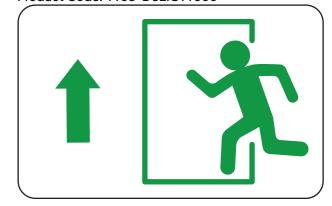
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Product Code: YT07-SAGIGYT000



Product Code: YT08-DUZIGYT000



Product Code: YT09-SOLIGYT000

