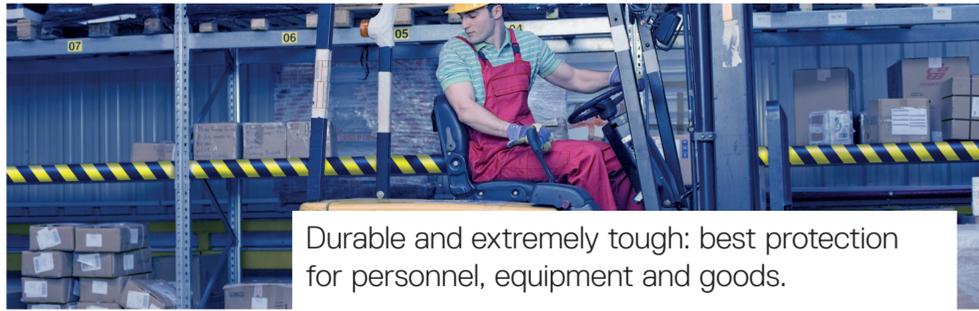




This innovative solution visibly provides greater protection.



Durable and extremely tough: best protection for personnel, equipment and goods.

Wall Protection Kit

Protect your guests and your real estates with a fast and secure system that needs no major fitting work. Whether your potential danger spots are in the car parks, the warehouse, the production hall or on access routes, the guards provided in the Wall Protection Kit have a stainless steel backing which can be attached to different types of surfaces and can therefore be used in a variety of applications. At the same time, the flexible polyurethane foam has an elasticity that absorbs even heavy impacts and its hazard markings flag up sources of danger from sharp edges, where surfaces jut out and obstructions are present.

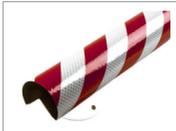
Innovation

This innovative solution visibly provides greater protection, as the new Wall Protection Kit reflects light from all sources. This benefit is due to the high-grade retroreflective film we use for the markings in reflection class RA2-B quality, the class approved for use on traffic signs in Germany by the Federal Highway Research Institute (BAST). This sturdy material is very resistant and therefore ideally suited for outdoor use.

Red reflective



TYPE H+



TYPE A+



TYPE C+

Yellow/Black reflective



TYPE H+



TYPE A+



TYPE C+

Warning and protective bumpers

The warning and protective bumpers act as a personal crumple zone for people, for machines and fixtures by absorbing hard impacts and thus prevent injuries and damages.

This can mean that staff absences or downtimes due to repairs belong to the past.

The highly effective warning capability of the black and yellow markings highlights sources of danger at edges, gaps and obstacles making them easy to recognize and thus reducing accidents.

Bumpers are resistant to temperature from -40 °C (-40 °F) to 100 °C (212 °F) and are also for use indoor and outdoor, e.g. on transport routes within a company's premises, on machinery, on walls and thoroughfares, shelves, gates and more.

The profiles have been developed in order to be used in any situation. Therefore, we can offer them as flat profiles for surface protection, corner profiles for 90° angles and round profiles for pipe protection. Thus all injury sites can be neutralized so that objects and people are protected.

Your advantages

- Warning and protection against hazards
- Minimizes staff absences
- For use indoor and outdoor
- Individual lengths up to 50 m
- Highly effective warning capacity
- Simple installation
- Robust und durable
- Reduces costs due to damages

WARNING AND PROTECTIVE BUMPERS

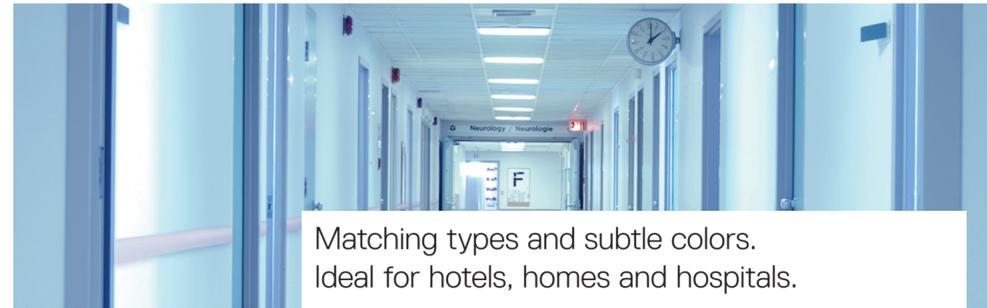




Crumple zone and safety marker:
the right solution for warehouse and retail space.



Safety as per the legal standard: warning
and protective bumpers for operating areas.



Matching types and subtle colors.
Ideal for hotels, homes and hospitals.

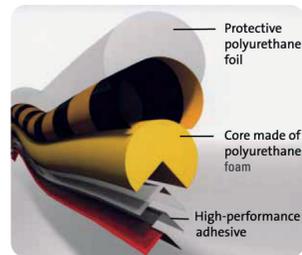


Protect your employees with a fast and
secure system that needs no major fitting work.

An overview of our high-performance product

Manufacturing process

The special, patented manufacturing technique makes the warning and protective bumper particularly flexible so that it absorbs forces of impact and also allows easy placement to curved surfaces. Due to its highly resistant protective film, your bumper will not lose its colors even under rough conditions.



The specificity is the design of the profile. The core of the profile is a polyurethane foam which is sheathed by a polyurethane film, fixed in place by foaming during the manufacturing process.

By using a reverse printing on the backside of the film, the colors are protected and mostly indestructible.

A light- and aging-resistant, high-performance adhesive is applied to the inside or the back of the profiles.

Fire classification

The warning and protective bumpers are classified according to DIN 4102 B2 and according to UL 94 HB/10 mm.

Installation

Simply adhere to clean, grease-free surfaces. For special surfaces like concrete, the use of a specific glue is recommended.

Adhesion

21 N/25 mm² all types except B and BB, light- and aging-resistant, modified acrylate adhesive.

Standard length

1 m, 5 m, up to 50 m (in carton).

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| | | | Yellow/Black | Red/White | White | Black | Fluorescent | Luminescent | Reflective |
|--------------|-----------------|----------|--------------|-----------|----------|----------|-------------|-------------|------------------------|
| | TYPE A | Length | Yellow/Black | Red/White | White | Black | Fluorescent | Luminescent | Reflective |
| | Product code | 1 m | PA-10010 | PA-10110 | PA-10310 | PA-10210 | PA-10710 | PA-10910 | - |
| | Product code | 5 m | PA-10020 | PA-10120 | PA-10320 | PA-10220 | PA-10720 | - | - |
| Product code | 50 m | PA-10040 | PA-10140 | PA-10340 | PA-10240 | PA-10740 | - | - | |
| | TYPE A+ | Length | Yellow/Black | Red/White | White | Black | Fluorescent | Luminescent | Reflective |
| | Product code | 1 m | PA-11010 | PA-11110 | PA-11310 | PA-11210 | PA-11810 | - | PAR-11720 PAR-11710 |
| | Product code | 50 m | PA-14010 | PA-14110 | PA-14310 | PA-14210 | - | - | - |
| | TYPE AA | Length | Yellow/Black | Red/White | White | Black | Fluorescent | Luminescent | Reflective |
| | Product code | 1 m | PA-14010 | PA-14110 | PA-14310 | PA-14210 | - | - | - |
| | Product code | 5 m | PA-14020 | PA-14120 | PA-14320 | PA-14220 | - | - | - |
| Product code | 50 m | PA-14040 | PA-14140 | PA-14340 | PA-14240 | - | - | - | |
| | TYPE R30 | Length | Yellow/Black | Red/White | White | Black | Fluorescent | Luminescent | Reflective |
| | Product code | 1 m | PR-10018 | PR-10118 | PR-10318 | PR-10218 | - | - | - |
| | Product code | 5 m | PR-10028 | PR-10128 | PR-10328 | PR-10228 | - | - | - |
| Product code | 50 m | PR-10048 | PR-10148 | PR-10348 | PR-10248 | - | - | - | |
| | TYPE R50 | Length | Yellow/Black | Red/White | White | Black | Fluorescent | Luminescent | Reflective |
| | Product code | 1 m | PR-10019 | PR-10119 | PR-10319 | PR-10219 | - | - | - |
| | Product code | 50 m | PR-10049 | PR-10149 | PR-10349 | PR-10249 | - | - | - |
| | TYPE B | Length | Yellow/Black | Red/White | White | Black | Fluorescent | Luminescent | Reflective |
| | Product code | 1 m | PB-10011 | PB-10111 | PB-10311 | PB-10211 | PB-10711 | PB-10911 | - |
| | Product code | 5 m | PB-10021 | PB-10121 | PB-10321 | PB-10221 | PB-10721 | - | - |
| Product code | 50 m | PB-10041 | PB-10141 | PB-10341 | PB-10241 | - | - | - | |
| | TYPE BB | Length | Yellow/Black | Red/White | White | Black | Fluorescent | Luminescent | Reflective |
| | Product code | 1 m | PB-14011 | PB-14111 | PB-14311 | PB-14211 | - | - | - |
| | Product code | 5 m | PB-14021 | PB-14121 | PB-14321 | PB-14221 | - | - | - |
| Product code | 50 m | PB-14041 | PB-14141 | PB-14341 | PB-14241 | - | - | - | |
| | TYPE C | Length | Yellow/Black | Red/White | White | Black | Fluorescent | Luminescent | Reflective |
| | Product code | 1 m | PC-10012 | PC-10112 | PC-10312 | PC-10212 | PC-10712 | PC-10912 | - |
| | Product code | 5 m | PC-10022 | PC-10122 | PC-10322 | PC-10222 | PC-10722 | - | - |
| Product code | 50 m | PC-10042 | PC-10142 | PC-10342 | PC-10242 | - | - | - | |
| | TYPE C+ | Length | Yellow/Black | Red/White | White | Black | Fluorescent | Luminescent | Reflective |
| | Product code | 1 m | PC-11012 | PC-11112 | PC-11312 | PC-11212 | PC-11812 | - | PCR-11722 PCR-11712 |
| | Product code | 50 m | PC-14012 | PC-14112 | PC-14312 | PC-14212 | - | - | - |
| | TYPE CC | Length | Yellow/Black | Red/White | White | Black | Fluorescent | Luminescent | Reflective |
| | Product code | 1 m | PC-14012 | PC-14112 | PC-14312 | PC-14212 | - | - | - |
| | Product code | 5 m | PC-14022 | PC-14122 | PC-14322 | PC-14222 | - | - | - |
| Product code | 50 m | PC-14042 | PC-14142 | PC-14342 | PC-14242 | - | - | - | |
| | TYPE D | Length | Yellow/Black | Red/White | White | Black | Fluorescent | Luminescent | Reflective |
| | Product code | 1 m | PD-10013 | PD-10113 | PD-10313 | PD-10213 | - | - | - |
| | Product code | 5 m | PD-10023 | PD-10123 | PD-10323 | PD-10223 | - | - | - |
| Product code | 50 m | PD-10043 | PD-10143 | PD-10343 | PD-10243 | - | - | - | |

| | | | Yellow/Black | Red/White | White | Black | Fluorescent | Luminescent | Reflective |
|--------------|-----------------------|----------|--------------|-----------|-----------|-----------|-------------|-------------|------------------------|
| | TYPE E | Length | Yellow/Black | Red/White | White | Black | Fluorescent | Luminescent | Reflective |
| | Product code | 1 m | PE-10014 | PE-10114 | PE-10314 | PE-10214 | PE-10714 | - | - |
| | Product code | 5 m | PE-10024 | PE-10124 | PE-10324 | PE-10224 | - | - | - |
| Product code | 50 m | PE-10044 | PE-10144 | PE-10344 | PE-10244 | - | - | - | |
| | TYPE H | Length | Yellow/Black | Red/White | White | Black | Fluorescent | Luminescent | Reflective |
| | Product code | 1 m | PH-10017 | PH-10117 | PH-10317 | PH-10217 | PH-10717 | - | - |
| | Product code | 5 m | PH-10027 | PH-10127 | PH-10327 | PH-10227 | PH-10727 | - | - |
| Product code | 50 m | PH-10047 | PH-10147 | PH-10347 | PH-10247 | - | - | - | |
| | TYPE H+ | Length | Yellow/Black | Red/White | White | Black | Fluorescent | Luminescent | Reflective |
| | Product code | 1 m | PH-11017 | PH-11117 | PH-11317 | PH-11217 | PH-11717 | - | PHR-11727 PHR-11717 |
| | Product code | 50 m | PH-14017 | PH-14117 | PH-14317 | PH-14217 | - | - | - |
| | TYPE H+ FLEX | Length | Yellow/Black | Red/White | White | Black | Fluorescent | Luminescent | Reflective |
| | Product code | 1 m | PHF-11917 | - | - | - | PHF-11817 | - | - |
| | Product code | 50 m | PHF-14917 | - | - | - | PHF-14817 | - | - |
| | TYPE F | Length | Yellow/Black | Red/White | White | Black | Fluorescent | Luminescent | Reflective |
| | Product code | 1 m | PF-10015 | PF-10115 | PF-10315 | PF-10215 | - | - | - |
| | Product code | 5 m | PF-10025 | PF-10125 | PF-10325 | PF-10225 | - | - | - |
| Product code | 50 m | PF-10045 | PF-10145 | PF-10345 | PF-10245 | - | - | - | |
| | TYPE S | Length | Yellow/Black | Red/White | White | Black | Fluorescent | Luminescent | Reflective |
| | Product code | 1 m | PS-10009 | PS-10109 | PS-10309 | PS-10209 | PS-10709 | - | - |
| | Product code | 50 m | PS-14009 | PS-14109 | PS-14309 | PS-14209 | - | - | - |
| | TYPE G | Length | Yellow/Black | Red/White | White | Black | Fluorescent | Luminescent | Reflective |
| | Product code | 1 m | PG-10016 | PG-10116 | PG-10316 | PG-10216 | - | - | - |
| | Product code | 5 m | PG-10026 | PG-10126 | PG-10326 | PG-10226 | - | - | - |
| Product code | 50 m | PG-10046 | PG-10146 | PG-10346 | PG-10246 | - | - | - | |
| | 2D Edge TYPE A | Length | Yellow/Black | Red/White | White | Black | Fluorescent | Luminescent | Reflective |
| | Product code | - | - | - | PEA-10816 | PEA-10810 | - | - | - |
| | Product code | - | - | - | PEA-10817 | PEA-10811 | - | - | - |
| | 2D Edge TYPE H | Length | Yellow/Black | Red/White | White | Black | Fluorescent | Luminescent | Reflective |
| | Product code | - | - | - | PEH-10820 | PEH-10814 | - | - | - |
| | Product code | - | - | - | PEH-10821 | PEH-10815 | - | - | - |
| | 3D Edge TYPE A | Length | Yellow/Black | Red/White | White | Black | Fluorescent | Luminescent | Reflective |
| | Product code | - | - | - | PEA-10816 | PEA-10810 | - | - | - |
| | Product code | - | - | - | PEA-10817 | PEA-10811 | - | - | - |
| | 2D Edge TYPE E | Length | Yellow/Black | Red/White | White | Black | Fluorescent | Luminescent | Reflective |
| | Product code | - | - | - | PEE-10818 | PEE-10812 | - | - | - |
| | Product code | - | - | - | PEE-10819 | PEE-10813 | - | - | - |

| | | | Yellow/Black | Red/White | White | Black | Fluorescent | Luminescent | Reflective |
|--|----------------------|--------|--------------|-----------|-------|-------|-------------|-------------|------------|
| | WP TYPE H+ | Length | Yellow/Black | Red/White | White | Black | Fluorescent | Luminescent | Reflective |
| | Product code | 1 m | WPH-15717 | - | - | - | WPH-16717 | - | WPHR-17717 |
| | Product code | 0,5 m | WPH-15817 | - | - | - | WPH-16817 | - | WPHR-18717 |
| | WP TYPE S | Length | Yellow/Black | Red/White | White | Black | Fluorescent | Luminescent | Reflective |
| | Product code | 1 m | WPS-15718 | - | - | - | WPS-16718 | - | - |
| | ArtikelNr. | 0,5 m | WPS-15818 | - | - | - | WPS-16818 | - | - |
| | WP TYPE F ECO | Length | Yellow/Black | Red/White | White | Black | Fluorescent | Luminescent | Reflective |
| | Product code | 1 m | WPF-15719 | - | - | - | - | - | - |
| | Product code | 0,5 m | WPF-15819 | - | - | - | - | - | - |
| | WP TYPE A+ | Length | Yellow/Black | Red/White | White | Black | Fluorescent | Luminescent | Reflective |
| | Product code | 1 m | WPA-15720 | - | - | - | WPA-16720 | - | WPAR-17720 |
| | ArtikelNr. | 0,5 m | WPA-15820 | - | - | - | WPA-16820 | - | WPAR-18720 |
| | WP TYPE A ECO | Length | Yellow/Black | Red/White | White | Black | Fluorescent | Luminescent | Reflective |
| | Product code | 1 m | WPA-15724 | - | - | - | - | - | - |
| | Product code | 0,5 m | WPA-15824 | - | - | - | - | - | - |
| | WP TYPE C+ | Length | Yellow/Black | Red/White | White | Black | Fluorescent | Luminescent | Reflective |
| | Product code | 1 m | WPC-15722 | - | - | - | WPC-16722 | - | WPCR-17722 |
| | ArtikelNr. | 0,5 m | WPC-15822 | - | - | - | WPC-16822 | - | WPCR-18722 |
| | WP TYPE E ECO | Length | Yellow/Black | Red/White | White | Black | Fluorescent | Luminescent | Reflective |
| | Product code | 1 m | WPE-15723 | - | - | - | - | - | - |
| | Product code | 0,5 m | WPE-15823 | - | - | - | - | - | - |

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