



INFINITE SAFETY



Warning and Protective Bumper Guards



WARNING AND PROTECTIVE BUMPER GUARDS

The warning and protective bumper guards with the distinctive name **Knuffi** act as a personal crumple zone for people, machines and fixtures, absorb hard impacts and thus prevent injury or damage.

This can mean that staff absences or downtimes due to repairs are a thing of 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 recognise and thus reducing accidents.

Knuffi is resistant to temperature from - 40 °C to 100 °C and are also resistant to damp, make them versatile for use both indoors and outdoors, e.g. on transport routes within a company's premises, on machinery, on walls and thoroughfares, shelves, gates and much more.

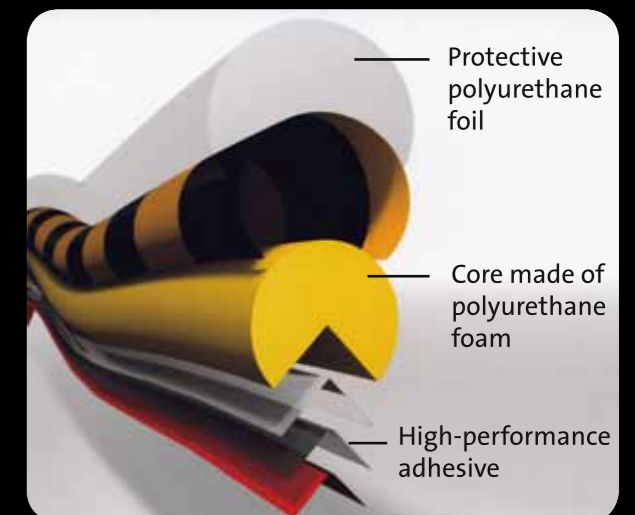
SPECIAL MANUFACTURING TECHNIQUE

The special, patent manufacturing technique makes the warning and protective bumper guards particularly flexible so that they absorb the forces of impact and also allow for easy attachment to curved objects. Another advantage is that the surfaces of the profiles are protected against losing their colour due to abrasion even under rough conditions.

The secret is in the design of the profile body: In the middle of the profile is a core made of polyurethane foam. This is sheathed in polyurethane foil, which is fixed in place by foaming during production.

The key is in the application of the colours. By using so-called reverse printing on the inward-facing side of the foil, the foil itself protects the paint so that the warning colours remain in place even if heavy abrasion takes place.

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



They come in standard lengths of 1 metre and also in 5-metre rolls. The profiles can also be cut to length and are also available on continuous rolls of up to 50 m.



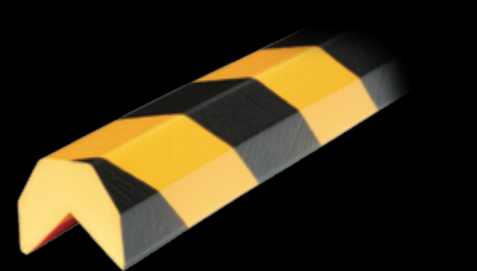
CORNER PROTECTION



Corner protection type A



Corner protection type A+



Corner protection type AA



Corner protection type E



Corner protection type H



Corner protection type H+

- Warning and protection against hazards
- Minimises staff absences
- Reduces costs due to damages
- For use both indoors and outdoors
- Custom lengths up to 50 m
- Highly effective warning capability
- Simple, inexpensive installation
- Robust and durable
- Reduces damage to buildings



EDGE PROTECTION



Edge protection type BB



Edge protection type G



Edge protection type B

PIPING PROTECTION



Piping protection type R30



Piping protection type R50



SURFACE PROTECTION



Surface protection type D



Surface protection type S



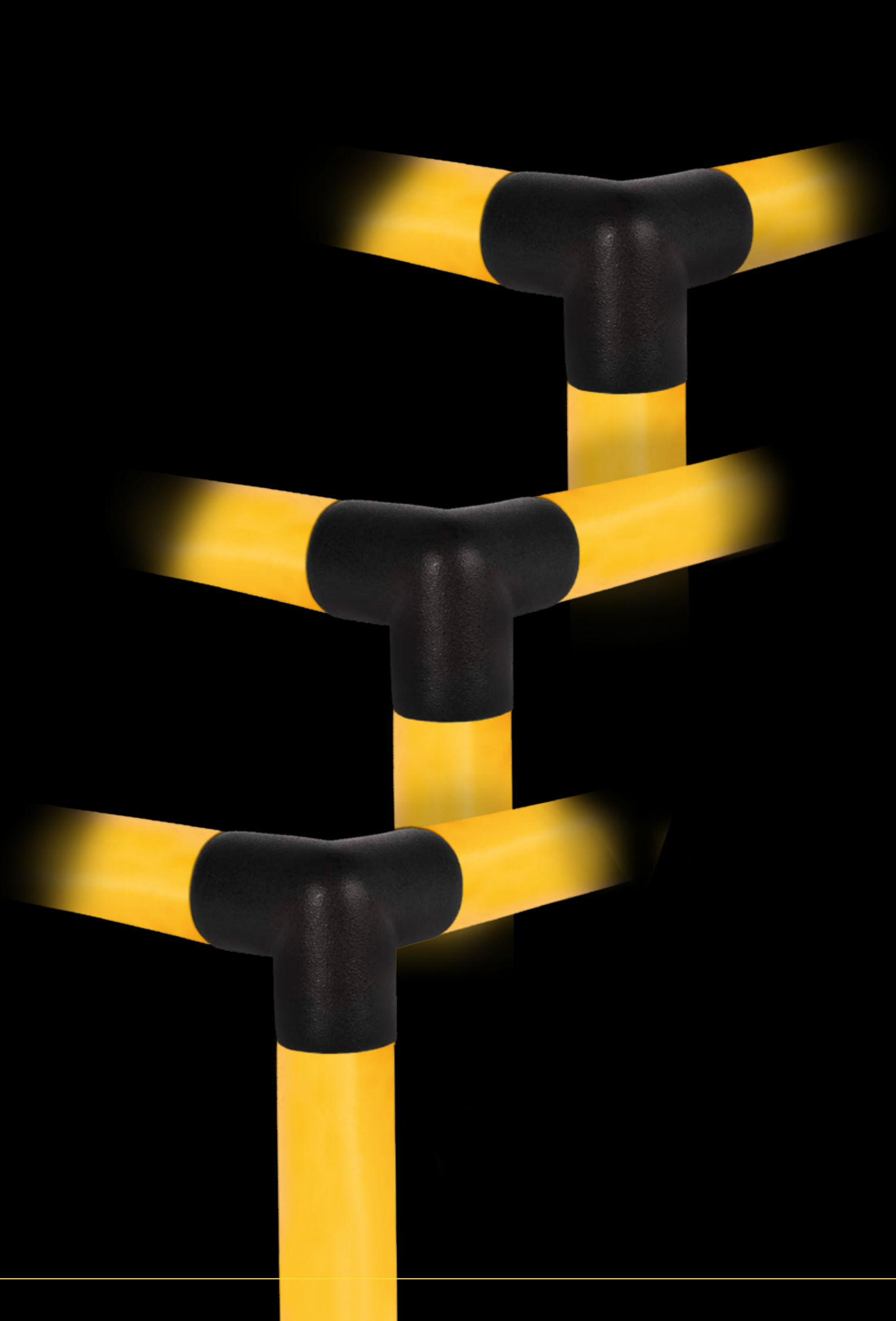
Surface protection type F



Surface protection type CC



Surface protection type C



TWO-DIMENSIONAL PROTECTIVE CORNERS



Protective corner type A



Protective corner type E



Protective corner type H

THREE-DIMENSIONAL PROTECTIVE CORNERS



Protective corner type A



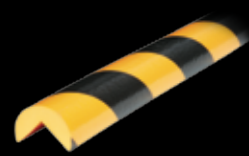
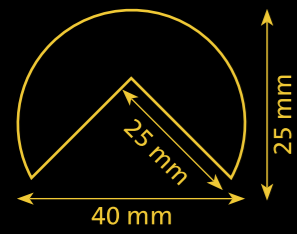
Protective corner type E



Protective corner type H

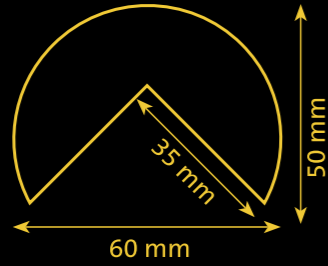
PROFILES

Corner protection type A



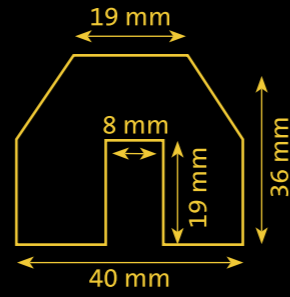
Corner protection A: 25 mm

Corner protection type A+



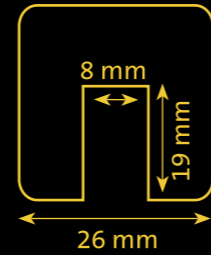
Corner protection A+: 35 mm

Edge protection type BB



Edge protection BB: 40x36 mm

Edge protection type G



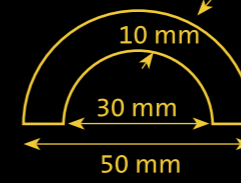
Edge protection G: 26 mm

Surface protection type S



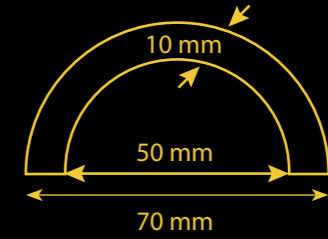
Surface protection S: 75x20 mm

Piping protection type R30



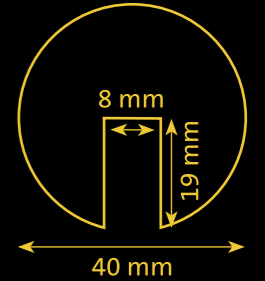
Piping protection R30: 30 mm inside radius

Piping protection type R50



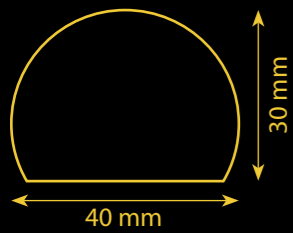
Piping protection R50: 50 mm inside radius

Edge protection type B



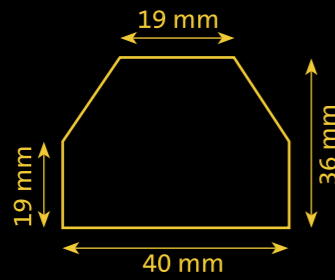
Edge protection B: 40 mm

Surface protection type C



Surface protection C: 40x30 mm

Surface protection type CC



Surface protection CC: 40x36 mm

Surface protection type D



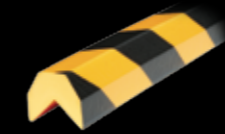
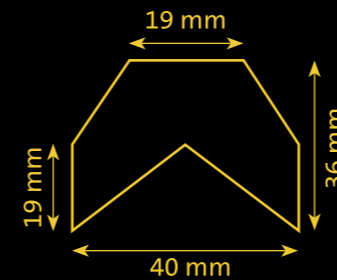
Surface protection D: 50x20 mm

Surface protection type F



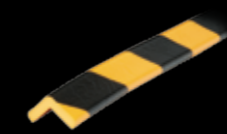
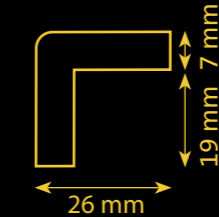
Surface protection F: 40x11 mm

Corner protection type AA



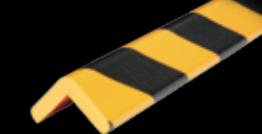
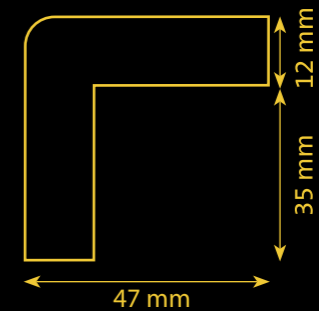
Corner protection AA: 40x36 mm

Corner protection type E



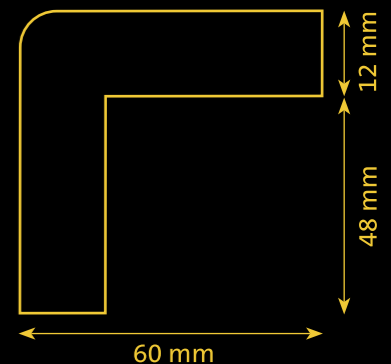
Corner protection E: 19 mm

Corner protection type H



Corner protection H: 35 mm

Corner protection type H+



Corner protection H+: 48 mm

COLOURS



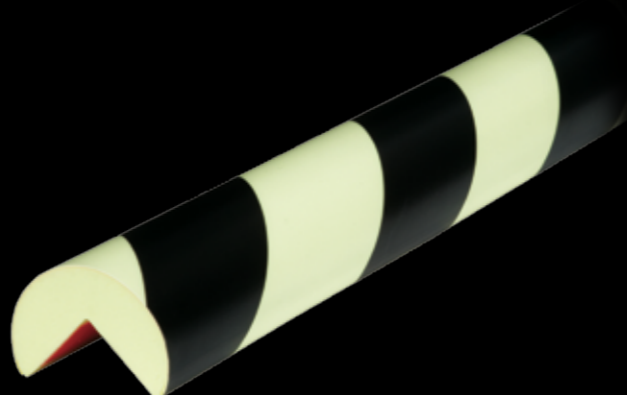
Black and yellow



Red and white



Fluorescent (in daylight)



Phosphorescent (glow in the dark)



White



Black

TECHNICAL DATA

Profile body:
Recyclable polyurethane foam, completely free of CFCs

Surface:
polyurethane foam coloured by reverse printing and fixed in place by foaming so that no paint appears on the outside

Adhesive:
All types except B and BB are affixed using light- and ageing-resistant modified acrylic glue

Adhesion:
21 N/25 mm

Resistant to temperatures
between -40 °C and 100 °C

Fire classification:
B2 according to DIN 4102 and UL 94 HB/10 mm

Colours:
bright yellow and black hatching as per BGV A 8, red and white hatching as per BGV A 8, black, white, fluorescent hatching, phosphorescent (glow in the dark) hatching

Standard lengths:
1 m, 5 m and up to 50 m

Installation:
Simply adhere to clean, grease-free surfaces



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