

AMERICAN

PERMALIGHT[®] Wall and Corner Safety Bumper Guards & 2D and 3D corners

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- 1. What material makes up this cushion? Recyclable Open-Cell Polyurethane Foam
- 2. How is this item installed?

Most Types: self-adhesive strips.

Clean surface that item shall be applied to. Remove red-colored protective silicone strip and press-apply bumper guard to clean, dry, dust-free surface; preferably at 40 F or above (4 C or higher).

Type B: **non-adhesive.**

Clean surface that item shall be applied to. Press B-groove onto I-beam. If stronger bond is desired, apply special adhesive (available separately: Item-No.: 83-0789) for improved attachment. Then firmly press-apply bumper guard type B to clean, dry, dust-free surface.

Several Types NOW NEW: come with Steel Support + 6 Screws/ 6 Anchors. Position Bumper in place, mark screw holes with pencil. Pre-drill holes, insert anchor, then screw mount bumper to surface.

- 3. Is mounting hardware included? Yes: screws and anchors for those Bumpers with Steel Support. NO mounting hardware needed for Adhesive-supported Types and squeeze-on Type B.
- 4. What can this material be mounted to?

Types A, A+, E, H, H+ and H+Steel: any corner with 90° angle, typically wall corners, machinery, equipment, overhead protrusions, objects like ladders, mail/delivery carts, etc.

Types B, G: ideal on I-Beam shelves

Types C, C+, D, F: any flat surface, e.g., on machinery, equipment, walls, shelves, equipment, forklifts, trucks, overhead protrusions; in parking garages to avoid dings and scrapes on car doors.

Type R1 + R2: on pipes and other round obstacles; underneath parking garage gate arms.

Type S1, S1Steel: in loading dock areas; parking garages; where very strong wall protection is needed.

2D + 3D Corners: as end-caps for continuous bumper types A, B, C; on pointed furniture corners (bookcases, metal filing cabinets, etc).

- 5. Can this material be used indoors, outdoors or both?
 - ✓ Black-Yellow, All-Black, All-White indoor and outdoor use.

 \checkmark Reflective indoor and outdoor use = ideal in parking environments; areas with car headlights.

III Photoluminescent and Fluorescent/Photoluminescent Types ONLY FOR INDOOR use

- Is this material weather resistant?
 Black-Yellow, All-Black, All-White and Reflective typically yes.
 <u>Photoluminescent</u> and <u>Fluorescent/Photoluminescent</u> Types NO!!!
- 7. Is this material flexible or rigid? Bendable, yet neither flexible nor rigid.
- What is the temperature range of this material?
 From -35° Celsius = -31° Fahrenheit to 80° Celsius = 176° Fahrenheit in normal dry conditions.
- What is the temperature range of the adhesive on the foam guards?
 From -40° Celsius = -40° Fahrenheit to 100° Celsius = 212° Fahrenheit in normal dry conditions.
 If soapy water or frost penetrate the space between adhesive and object surface, such unusually harsh conditions may result in loosening.
- What type of adhesive is on the adhesive-backed strips?
 Light- and aging resistant, modified, durable Acrylic Adhesive.
 Adhesive Strength: 25 Newton per Inch.
 <u>Type G only:</u> double-sided non-woven adhesive, temperature resistant, modified acrylate adhesive.
 Short term: up to 140° F. Long term: up to 104° F. Adhesive Strength: 37.5 Newton per Inch.

When all the lights are out ...

2531 W 237th St #101, Torrance, CA 90505 Tel. 310-891-0924 Fax 310-891-0996 info@americanpermalight.com

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- 11. What is the purpose/benefit of this material (i.e. withstand impact, guard, align...etc)?
 - make protrusions & obstacles along the way brightly visible
 - avoid the risk of injury as a person hits the soft, cushioned bumper guard instead of a sharp, pointed corner or hard metal object
 - protect building features by reducing the damage to corners (imagine carts constantly cutting a corner
 - save walls from impact (e.g., all-white along wall behind chairs or where hospital beds bump in)
 - protect equipment & machinery
 - · protect cars in parking environments: avoid dings and scrapes on car paint

12. What is the durometer of this material and the shore scale it was measured on? Approximately 55 measured per Shore A

13. Flammability Test:

DIN 4102 - Part 1: B2 (1998) Reaction to fire tests - Ignitability of building products subjected to direct impingement of flame. EN Class: dfl per EN ISO 9239-1.

14. What is the finish of this material? (textured/ pebbled, smooth, shiny...etc) Semi-matte, leather-like surface finish on black-yellow, all-black, all-white foam guards. Semi-matte, smooth surface finish for the photoluminescent foam guards.

15. What are the reflective features?

The Reflective Foam Guards use a High-Intensity Prismatic Reflective Sheeting with eminent retro-reflective property, suited for regulatory signage, warning signs or arrow road signs. Red contrasting color is surface-printed and protected with a UV-resistant clear surface lacquer for outdoor suitability.

Photometric Performance: Typical coefficient of retro-reflective values of Prismatic High Intensity Reflective Sheeting when measured in accordance with CIE Publication 54.2 using CIE standard illuminant A shown below:

	Initial Value		
	Designated Angle	I.A.	White
Reflective Intensity Value	0.1°	+5°	1074
		+20°	954
		+30°	555
		+40°	340
		+5°	552
	0.2°	+20°	633
		+30°	458
		+40°	312
		+5°	345
	0.33°	+20°	397
		+30°	323
		+40°	258

16. It the foam guard material marking or non-marking?

Foam Guard itself is non-marking. The Yellow/Black color is accomplished through reverse printing, therefore no outside-surface color application. <u>Do NOT use thinners or solvents</u> on the surface of <u>Photoluminescent</u> and <u>Photoluminescent</u> Foam Guards!!!!

17. Is this material staining or non-staining?

Foam Guard itself is non-staining. If pulled away following installation, adhesive remnants may be present on installation surface which should be removed using thinners or solvents.

18. Thickness of this material.

See individual cross-section graphics for the many Types available for more details.

19. Length of the Foam Guards. **39-3/8" length (exactly 1 meter) on the shelf, ready to supply right away** Types A, B, C, E, F also in 16-foot long rolls (= 5.47 yard coil for ease of shipping) on the shelf.

 \Rightarrow D, G, H and R1 available upon request: in 16 foot long rolls.

→A few types may also be available in 164-foot = 54.7 yard extra-long rolls (please contact us).

20. Weight of material **Weight varies by type (see detailed items list)**



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21. Electrostatic Charging

The polyurethane foam guards were tested for their tendency for electrostatic charge. The surface resistance of the material was NOT tested, as the polyurethane foam guards are not used as storage surface and as the resistance value of $>10^{11}$ Ohm is above the normative limit.

Following rubbing, the material cannot get electrostatically charged and can therefore be used in ESD protective areas. This does NOT apply to safety bumper guards with Steel Support as Steel is electrically conducting.