

All these products are certified according to the **EN 12254** norm  
Models ending in **"CR"**: valid for clean room

**Comparison chart** of protection according to the laser pulse duration:

	Art. (nm-->)	180-315	>315-532	>532-850	>850-1050	>1050-1400	>1400-11000
<b>D AB</b> (CW – 0.25s)	PPL-C-HIGH	9	7			6	3
	PPL-C-SUPR	9	6				3
	PPL-C-EXTR	8	6			5	3
	PPL-C-BUDG	8	5			4	2
	PLV-C-SHCR	8	7			6	4
	PPL-C-HICR	9	7			6	3
<b>I AB</b> (0.25s – 1µs)	PPL-C-HIGH	4	6	7			4
	PPL-C-SUPR	3	7Y				3
	PPL-C-EXTR	3	7Y				3
	PPL-C-BUDG	3	7				2
	PLV-C-SHCR	3	8				4
	PPL-C-HICR	4	6	7			4
<b>R AB</b> (1µs – 1 ns)	PPL-C-HIGH	4	6	7			4
	PPL-C-SUPR	3	7Y				3
	PPL-C-EXTR	3	7Y				3
	PPL-C-BUDG	3	6				2
	PLV-C-SHCR	3	7Y				3Y
	PPL-C-HICR	4	6	7			4
<b>M AB</b> (< 1 ns)	PPL-C-HIGH	5Y	8Y				3Y
	PPL-C-SUPR	5Y	8				4Y
	PPL-C-EXTR	5Y	8				4Y
	PPL-C-BUDG	5Y	8				4Y
	PLV-C-SHCR	6Y	8Y				4
	PPL-C-HICR	5Y	8Y				8

The prices indicated below might vary with confection. Prices without VAT or transport cost; payment 30-days net or less.

PPL- curtains are delivered with eyelets separated about 180-200 mm and center at about 50 mm from top edge. Eyelet diameter about 20 mm. No hooks delivered.

Virtually any size available. For edges above 5m 2 pieces joined with velcro will be used.

PLV-C-SHCR are delivered with eyelets in different size-location.

Velcros or magnetic joints on demand.

Available on movable frame with wheels.



**Models and pricing** (no minimum size; minimum price 1m2)

Art.	Protection EN 12254	Thick. mm	Weight Kg/m <sup>2</sup>	Other
<b>PPL-C-HIGH</b>	180-315 D AB9 + IR AB4 + M AB5Y >315-532 D AB7 + IR AB6 + M AB8Y >532-1050 D AB7 + IR AB7 + M AB8Y >1050-1400 D AB6 + IR AB7 + M AB8Y >1400-11000 D AB3 + IR AB4 + M AB3Y	2,2	2,2	Special multilayer compound Silicone free Both sides protective Standard color: black (white, silver) Fire protection rated (*)
<b>PPL-C-SUPR</b>	180-315 D AB9 + IR AB3 + M AB5Y > 315-1400 D AB6 + IR AB7Y + M AB8 > 1400-11000 DIR AB3 + M AB4Y	2,8	3	Composite-textile-plastic Both sides protective Standard color: carbon
<b>PPL-C-EXTR</b>	180-315 D AB8 + IR AB3 + M AB5Y > 315-1050 D AB6 + IR AB7Y + M AB8 > 1050-1400 D AB5 + IR AB7Y + M AB8 > 1400-11000 DIR AB3 + M AB4Y	1,6	2	Composite-textile-plastic Both sides protective Color: carbon Fire protection rated (*)
<b>PPL-C-BUDG</b>	180-315 D AB8 + IR AB3 + M AB5Y >315-1050 D AB5 + I AB7 + R AB6 + M AB8 >1050-1400 D AB4 + I AB7 + R AB6 + M AB8 >1400-11000 DIR AB2 + M AB4Y	0,8	1	Composite-textile-plastic Both sides protective Standard color: black (white, black/white, black/carbon, carbon) Fire protection rated (*)
<b>PLV-C-SHCR</b>	180-315 D LB8 + IR LB3 + M LB6Y >315-1050 D LB7 + I LB8 + R LB7Y + M LB8Y >1050-1400 D LB6 + I LB8 + R LB7Y + M LB8Y >1400-20000 DIM LB4 + R LB3Y	-	3	Multilayer silicate with antistatic (ESD) coating (valid for clean rooms) Wipeable and disinfected (alcohol) Both sides protective Color: grey According to EN1149-1 certified
<b>PPL-C-HICR</b>	180-315 D AB9 + IR AB4 + M AB5Y >315-532 D AB7 + IR AB6 + M AB8Y >532-1050 D AB7 + IR AB7 + M AB8Y >1050-1400 D AB6 + IR AB7 + M AB8Y >1400-11000 D AB3 + IR AB4 + M AB3Y	4,2	~4,2	Certified for clean rooms ISO Class-3-9b. Color: black EN 14644 certified
<b>PPL-C-LAMA</b>	180-315 D AB7 + IR AB3 > 315-1050 D AB7 > 315-1400 I AB7 + R AB6 > 1050-1400 D AB6 > 1400-11000 D AB3	3	3,7	Special silicone Soft lamelles of 30 x 200 cm (max 30x1000) Color: brownish red; easy to cut Ideal to protect accesses

(\*) class B1 according to DIN 4102-4:2016-05

Lamelle		High	Wide
PPL-C-LAMA-0300x2000	Lamelle (slat) 300x2000mm (wxh) 3mm thick, red-brown, no eyelets	2 m	0,3 m
PPL-C-LAMA - 1050x2000	Lamelle (slat) 1050x2000mm (wxh) 3mm thick, red-brown, no eyelets (4 pieces 300X2000, overlap ~50mm)	2 m	1,05 m
PPL-C-LAMA - 2100x2000	Lamelle (slat) 2100x2000mm (wxh) 3mm thick, red-brown, no eyelets (10 pieces 300X2000, overlap ~50mm)	2 m	2,1 m

Prices excluding taxes and shipment costs, for payment 30-days-nett maximum

Everything needed on laser safety and protection: <https://catalog.procarelight.com/en/laser-protection.html>

