



**LASER**  
SAFETY  
WINDOWS

# LASER WINDOWS

## Solutions for every application

Le finestre di protezione laser, realizzate in materiale plastico o vetro, sono utilizzate come elementi di ispezione in macchine e impianti, consentendo all'operatore di monitorare il processo e di essere protetto allo stesso tempo dalla radiazione laser. Le finestre disponibili sono specificatamente sviluppate per i più comuni sistemi laser, all'interno del catalogo sono illustrate le varie misure disponibili, ma su specifica richiesta del cliente possono essere realizzate in diversi formati. Le finestre di protezione Univet sono certificate secondo la normativa EN207, per garantire la necessaria densità ottica e il mantenimento della protezione durante eventuali esposizioni alla radiazione laser.

The laser protection windows, made of plastic material or glass, are used as observation screens in machinery and industrial plants. The operator can monitor the production process and, at the same time, is protected from laser radiation. The most common models are available from our catalogue. Upon customer request we can also manufacture the windows in many different formats. The Univet protection windows are EN207 certified in order to guarantee the required optical density and to keep the expected level of protection in case of exposure to laser radiation.

## QUICK CHART

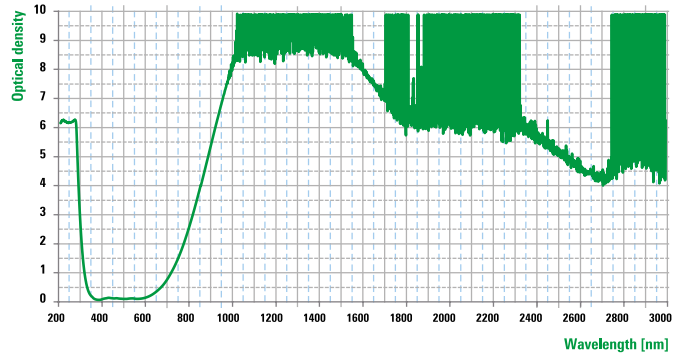
		Excimer	UV	Nd:YAG(4x)	Nd:YAG(3x)	Argon	Nd:YAG KTP	Dye	HeNe	Diode	Ruby	Alexandrite	Ti:Sapphire	Diode	Diode	Yb:YAG	Nd:YAG	Fiber	Telecom	Diode	Tm:YAG	Ho:YAG	Er:YAG	CO2		
		193 nm	248 nm	266 nm	355 nm	515 nm	532 nm	595 nm	633 nm	650 nm	694 nm	755 nm	800 nm	808 nm	940 nm	1030 nm	1064 nm	1080 nm	1320 nm	1470 nm	2000 nm	2100 nm	2940 nm	10600 nm		
706 BL	GLASS	•												•	•	•	•	•	•	•	•	•	•	•	•	
706 GL		•	•	•	•	•	•																			
709		•	•												•	•	•	•	•	•	•	•	•	•	•	•
708 EK	ACRYLIC	•											•	•	•	•	•	•							•	
708 FK		•	•	•	•	•	•							•	•	•										
708 GK		•	•	•	•	•	•	•																		
708 NK															•	•	•	•	•							
708 OK												•	•	•	•	•	•	•								
708 CZ		•	•	•																						•
708 EZ	POLYCARBONATE	•	•	•																					•	
708 FZ		•	•	•																						•
708 DZ		•	•	•																						•
708 GZ		•	•	•																						•
708 HZ		•	•	•																						•

VETRO / GLASS	ACRILICO / ACRYLIC
<b>DIMENSIONI DISPONIBILI / AVAILABLE SIZES</b>	<b>DIMENSIONI DISPONIBILI / AVAILABLE SIZES</b>
50 mm x 100 mm	210 mm x 297 mm
80 mm x 160 mm	100 mm x 200 mm
100 mm x 185 mm	200 mm x 200 mm
100 mm x 200 mm	200 mm x 300 mm
160 mm x 160 mm	450 mm x 300 mm
100 mm x 187 mm	450 mm x 600 mm
	914 mm x 609 mm



# FILTER CODE: 706.XX.00.00 BL

Filter	Full protection
Colour	Aqua
Material	Glass
Thickness	4.0 mm
VLT	70%
Alignment laser wavelength T%(λ) >10%	380-700 nm



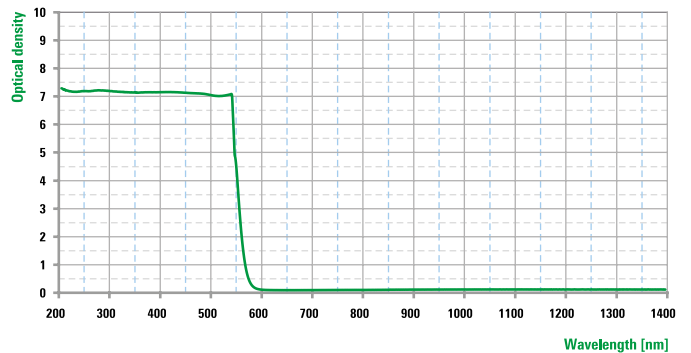
Wavelength	OD	EN207	
190	260	9	D LB9 IR LB4
815	1400	3	DIR LB3
850	1400	4	DIR LB4
890	1400	5	DIR LB5
930	1400	6	DIR LB6
950	1400	7	D LB6 IR LB7
990	1400	8	D LB6 IR LB8
1400	3000	5	DI LB4
10600	6	DI LB4	

Available Sizes	Product Code
160 X 160 mm	706.01.00.00 BL
Custom sizes available upon request	



# FILTER CODE: 706.XX.00.00 GL

Filter	Full protection
Colour	Orange
Material	Glass
Thickness	4.0 mm
VLT	42%
Alignment laser wavelength T%(λ) >10%	565-781 nm



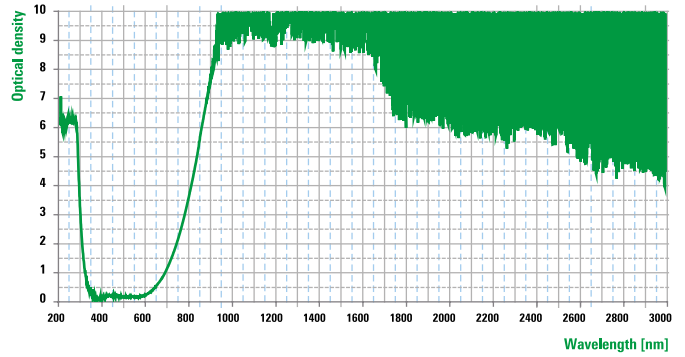
Wavelength	OD	EN207	
190	315	9	D LB9 IR LB4
315	535	7	D LB6 IR LB7

Available Sizes	Product Code
80 X 160 mm	706.05.00.00 GL
160 X 160 mm	706.01.00.00 GL
Custom sizes available upon request	



# FILTER CODE: 709.00.0.XXX

Filter	Full protection
Colour	Aqua
Material	Glass
Thickness	7.20 mm
VLT	65%
Alignment laser wavelength T%(λ) >10%	380-695 nm

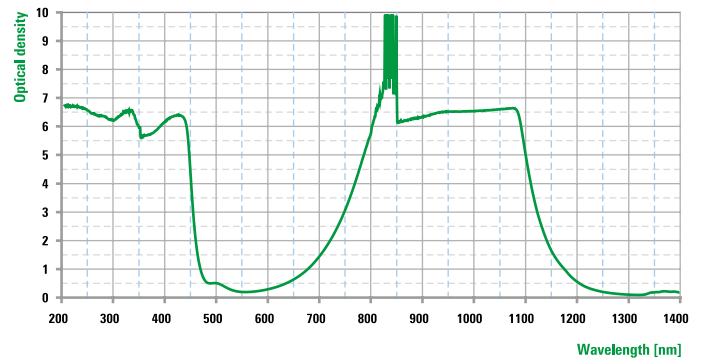


Wavelength	OD	EN207	Available Sizes	Product Code
190	275	9	50 X 100 mm	709.00.0.001
780	1400	3	100 X 185 mm	709.00.0.003
810	1400	4	100 X 200 mm	709.00.0.004
835	1400	5	160 X 160 mm	709.00.0.002
860	1400	6	Custom sizes available upon request	
880	1400	7		
900	1400	8		
1400	3000	5		
10600	6	DI LB5		



# FILTER CODE: 708.003.XXX EK

Filter	Full protection
Colour	Green
Material	Acrylic
Thickness	3.2 mm
VLT	55%
Alignment laser wavelength T%(λ) >10%	465-700 nm

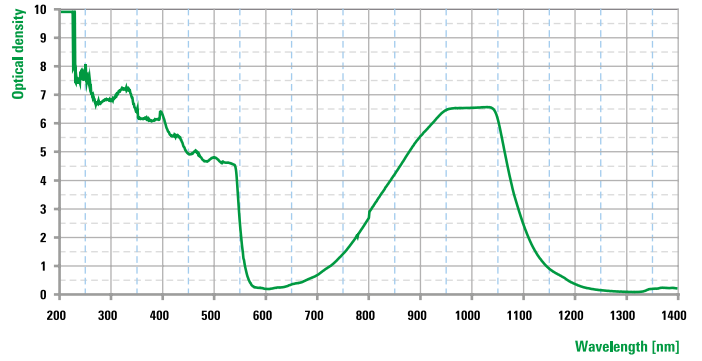


Wavelength	OD	EN207	Available Sizes	Product Code
190	315	6	100 X 200 mm	708.003.004 EK
315	440	6	200 X 200 mm	708.003.005 EK
750	1120	3	297 X 210 mm	708.003.048 EK
770	1100	4	200 X 300 mm	708.003.006 EK
785	1100	5	450 X 300 mm	708.003.009 EK
800	1090	6	450 X 600 mm	708.003.010 EK
816	1070	7	914 X 609 mm	708.003.031 EK
830	1065	8	Custom sizes available upon request	
10600	6	DI LB3		



# FILTER CODE: 708.001.XXX FK

Filter	Full protection
Colour	Dark Orange
Material	Acrylic
Thickness	3.2 mm
VLT	34%
Alignment laser wavelength T%(λ) >10%	560-725 nm

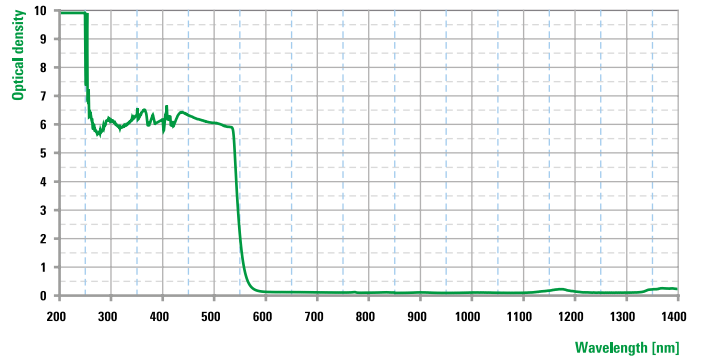


Wavelength	OD	EN207	Available Sizes	Product Code
190	315	6	D LB6 IR LB3	100 X 200 mm 708.001.004 FK
315	535	5	DIR LB5	200 X 200 mm 708.001.005 FK
500	532	7	D LB5 IR LB7	297 X 210 mm 708.001.048 FK
815	1085	3	DIR LB3	200 X 300 mm 708.001.006 FK
845	1075	4	DIR LB4	450 X 300 mm 708.001.009 FK
885	1064	5	DIR LB5	450 X 600 mm 708.001.010 FK
Custom sizes available upon request				



# FILTER CODE: 708.001.XXX GK

Filter	Full protection
Colour	Orange
Material	Acrylic
Thickness	3.2 mm
VLT	46%
Alignment laser wavelength T%(λ) >10%	565-781 nm

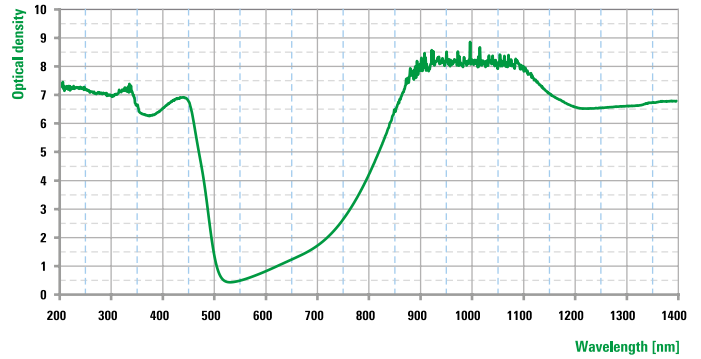


Wavelength	OD	EN207	Available Sizes	Product Code
190	315	5	D LB5 IR LB3	100 X 200 mm 708.001.004 GK
500	532	7	D LB5 IR LB7	297 X 210 mm 708.001.048 GK
200 X 200 mm 708.001.005 GK				
200 X 300 mm 708.001.006 GK				
450 X 300 mm 708.001.009 GK				
450 X 600 mm 708.001.010 GK				
Custom sizes available upon request				



## FILTER CODE: 708.001.XXX NK

Filter	Full protection
Colour	Green
Material	Acrylic
Thickness	3.2 mm
VLT	21%
Alignment laser wavelength T%(λ) >10%	505-620 nm



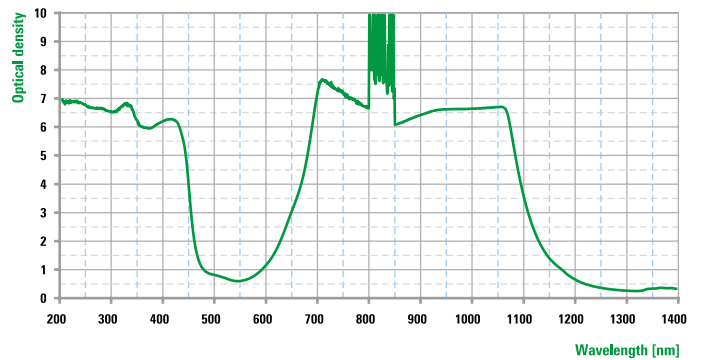
Wavelength	OD	EN207	EN12254
765	1400	3	DIR AB3
795	1400	4	DIR LB4
820	1400	5	DIR LB5
840	1400	6	DIR LB6
865	1150	7	D LB6 IR LB7
900	1100	8	D LB6 IR LB8 M LB7Y

Available Sizes	Product Code
100 X 200 mm	708.001.004 NK
200 X 200 mm	708.001.005 NK
297 X 210 mm	708.001.048 NK
200 X 300 mm	708.001.006 NK
450 X 300 mm	708.001.009 NK
450 X 600 mm	708.001.010 NK
Custom sizes available upon request	



## FILTER CODE: 708.001.XXX OK

Filter	Full protection
Colour	Green
Material	Acrylic
Thickness	3.2 mm
VLT	21%
Alignment laser wavelength T%(λ) >10%	505-615 nm

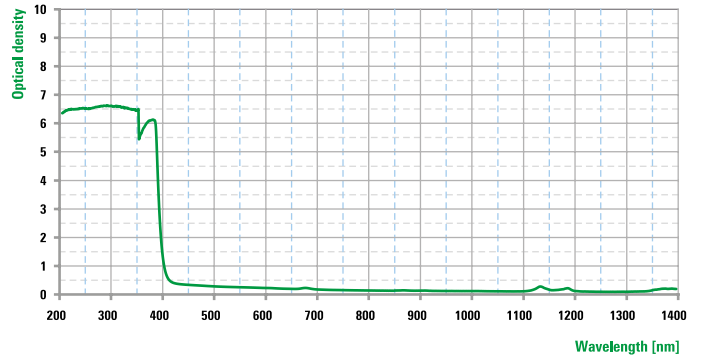


Wavelength	OD	EN207
690	1068	6
700	1065	7
710	1068	8

Available Sizes	Product Code
100 X 200 mm	708.001.004 OK
200 X 200 mm	708.001.005 OK
297 X 210 mm	708.001.048 OK
200 X 300 mm	708.001.006 OK
450 X 300 mm	708.001.009 OK
450 X 600 mm	708.001.010 OK
Custom sizes available upon request	

## 708.000.XXX EZ - 708.000.XXX FZ - 708.000.XXX CZ

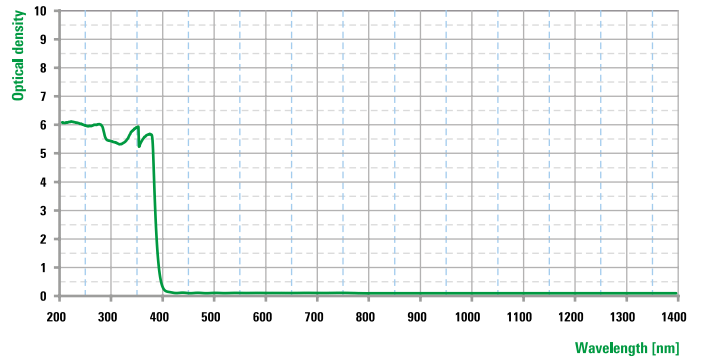
Filter	Full protection
Colour	Bronze
Material	Polycarbonate
Thickness	708.000.XXX EZ - 3.0 mm 708.000.XXX FZ - 4.0 mm 708.000.XXX CZ - 5.0 mm
VLT	50%
Alignment laser wavelength T%(λ) >10%	400-780 nm



Wavelength		OD	EN207	
190	315	5	D LB5 IR LB3	Dimensione massima 2000x3000 mm. Fornibili con dimensioni, forature, sedi di accoppiamento realizzate secondo il disegno fornito dal cliente. Maximum dimensions 2000x3000 mm. This window could be supplied with dimensions, holes, coupling seats made according to drawings provided by customers.
10600	6	DI LB4		

## 708.000.XXX GZ - 708.000.XXX DZ - 708.000.XXX HZ

Filter	Full protection
Colour	Clear
Material	Polycarbonate
Thickness	708.000.XXX GZ - 3.0 mm 708.000.XXX DZ - 4.0 mm 708.000.XXX HZ - 5.0 mm
VLT	90%
Alignment laser wavelength T%(λ) >10%	400-780 nm



Wavelength		OD	EN207	
190	315	5	D LB5 IR LB3	Dimensione massima 2000x3000 mm. Fornibili con dimensioni, forature, sedi di accoppiamento realizzate secondo il disegno fornito dal cliente. Maximum dimensions 2000x3000 mm. This window could be supplied with dimensions, holes, coupling seats made according to drawings provided by customers.
10600	6	DI LB4		



Univet è certificato ISO 9001: 2008.

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