anka
ENGINEERING & AUTOMATION

Laser Welding Safety Catalogue

Eyewear, PPE, Windows & Enclosures for Fibre & Cobot Laser Welding

Edition: July 2026

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AE-ADY 740 – 1100 nm

Main material:	TR90 frame, PC filter
Optical density:	740–780 nm OD5+; 780–820 nm OD6+; 820–1100 nm OD7+
Scale number:	740–780 nm DIR LB5; >780–820 nm DIR LB6; >820–1090 nm D LB6 + IR LB7 LP S CE
Transmittance:	29%
Suitable wavelengths:	755, 808, 810, 980, 1060, 1064 nm
Application:	Alexandrite laser, laser diodes, Nd:YAG
Certified to:	CE EN207

Frame styles available: F33 / F36 / F52 / F301 / F304 / F305

AUSTRALIAN STANDARDS NOTE

Filters are certified to CE EN207, the European laser eyewear standard. The Optical Density (OD) / Scale Number (LB) values reported use the same methodology referenced by AS/NZS IEC 60825.1:2014, Australia's laser safety standard. Confirm specific certification requirements with your safety advisor before use on a classified system.



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#305

AE-ADY-3 900 – 1100 nm (high protection)

Main material:	TR90 frame, PC filter
Optical density:	900–1100 nm OD8+
Scale number:	900–1100 nm D LB6 + IR LB8 LP S CE
Transmittance:	27%
Suitable wavelengths:	1060, 1064, 1070, 1080 nm
Application:	High-power fibre lasers
Certified to:	CE EN207

Frame styles available: F33 / F36 / F52 / F301 / F304 / F305

AUSTRALIAN STANDARDS NOTE

Filters are certified to CE EN207, the European laser eyewear standard. The Optical Density (OD) / Scale Number (LB) values reported use the same methodology referenced by AS/NZS IEC 60825.1:2014, Australia's laser safety standard. Confirm specific certification requirements with your safety advisor before use on a classified system.



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AE-ADY-3 DIN4 900 – 1100 nm (high protection)

Main material:	TR90 frame, PC filter
Optical density:	900–1100 nm OD8+, DIN 4 visible shade
Scale number:	900–1100 nm D LB6 + IR LB8 LP S CE
Transmittance:	6%
Suitable wavelengths:	1064, 1070, 1080 nm
Application:	High-power fibre lasers
Certified to:	CE EN207

Frame styles available: F33 / F36 / F52 / F301 / F304 / F305

AUSTRALIAN STANDARDS NOTE

Filters are certified to CE EN207, the European laser eyewear standard. The Optical Density (OD) / Scale Number (LB) values reported use the same methodology referenced by AS/NZS IEC 60825.1:2014, Australia's laser safety standard. Confirm specific certification requirements with your safety advisor before use on a classified system.



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AE-DTY 800 – 1700 nm

Main material:	TR90 frame, PC filter
Optical density:	800–1700 nm OD4+; 900–1550 nm OD6+
Scale number:	800–1400 nm DIRM LB4; 900–1400 nm DIRM LB6; 1400–1700 nm DI LB3 LP CE
Transmittance:	18%
Suitable wavelengths:	980, 1064, 1320, 1470, 1550 nm
Application:	Laser diodes, Nd:YAG, telecom lasers
Certified to:	CE EN207

Frame styles available: F33 / F36 / F52 / F301 / F304 / F305

AUSTRALIAN STANDARDS NOTE

Filters are certified to CE EN207, the European laser eyewear standard. The Optical Density (OD) / Scale Number (LB) values reported use the same methodology referenced by AS/NZS IEC 60825.1:2014, Australia's laser safety standard. Confirm specific certification requirements with your safety advisor before use on a classified system.



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#305

AE-YHP 200–460 nm & 800–1095 nm

Main material:	TR90 frame, PC filter
Optical density:	200–460 nm OD6+; 800–1095 nm OD7+
Scale number:	316–460 nm DIR LB6; 800–1095 nm D LB5 + IR LB7 LP CE
Transmittance:	40%
Suitable wavelengths:	450, 808, 980, 1064 nm
Application:	Ultraviolet, blue laser, laser diodes, fibre laser
Certified to:	CE EN207

Frame styles available: F33 / F36 / F52 / F301 / F304 / F305

AUSTRALIAN STANDARDS NOTE

Filters are certified to CE EN207, the European laser eyewear standard. The Optical Density (OD) / Scale Number (LB) values reported use the same methodology referenced by AS/NZS IEC 60825.1:2014, Australia's laser safety standard. Confirm specific certification requirements with your safety advisor before use on a classified system.



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#305

AE-YHP-2 800 – 1100 nm

Main material:	TR90 frame, PC filter
Optical density:	800–900 nm OD>6; 900–1100 nm OD>7
Scale number:	800–900 nm D LB5 + IR LB6; >900–1080 nm D LB5 + IR LB7 LP S CE
Transmittance:	41%
Suitable wavelengths:	808, 980, 1064 nm
Application:	Laser diodes, Nd:YAG, fibre laser
Certified to:	CE EN207

Frame styles available: F33 / F36 / F52 / F301 / F304 / F305

AUSTRALIAN STANDARDS NOTE

Filters are certified to CE EN207, the European laser eyewear standard. The Optical Density (OD) / Scale Number (LB) values reported use the same methodology referenced by AS/NZS IEC 60825.1:2014, Australia's laser safety standard. Confirm specific certification requirements with your safety advisor before use on a classified system.



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#305

AE-YHP-2 DIN4 800 – 1100 nm

Main material:	TR90 frame, PC filter
Optical density:	800–900 nm OD>6; 900–1100 nm OD>7, DIN 4 visible shade
Scale number:	800–900 nm D LB5 + IR LB6; >900–1080 nm D LB5 + IR LB7 LP S CE
Transmittance:	8%
Suitable wavelengths:	980, 1064, 1070, 1080 nm
Application:	Handheld laser welding machines, laser cutting machines
Certified to:	CE EN207

Frame styles available: F33 / F36 / F52 / F301 / F304 / F305

AUSTRALIAN STANDARDS NOTE

Filters are certified to CE EN207, the European laser eyewear standard. The Optical Density (OD) / Scale Number (LB) values reported use the same methodology referenced by AS/NZS IEC 60825.1:2014, Australia's laser safety standard. Confirm specific certification requirements with your safety advisor before use on a classified system.



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#304



#305

AE-GIR 740 – 1150 nm

Main material:	TR90 frame, mineral glass lens
Optical density:	740–900 nm OD>7; 900–1150 nm OD>8
Scale number:	740–900 nm D LB6 + IR LB7; >900–1150 nm D LB6 + IR LB8 LP S CE
Transmittance:	50%
Suitable wavelengths:	740–1150 nm
Application:	Near-infrared laser protection
Certified to:	CE EN207

Frame styles available: F33 / F36 / F52 / F301 / F304 / F305

AUSTRALIAN STANDARDS NOTE

Filters are certified to CE EN207, the European laser eyewear standard. The Optical Density (OD) / Scale Number (LB) values reported use the same methodology referenced by AS/NZS IEC 60825.1:2014, Australia's laser safety standard. Confirm specific certification requirements with your safety advisor before use on a classified system.



AE-GIR-2 870 – 2300 nm & 2850 – 3000 nm

Main material:	TR90 frame, mineral glass lens
Optical density:	870–950 nm OD4+; >950–1000 nm OD6+; >1000–1400 nm OD7+; >1400–2300 nm OD4+; >2850–3000 nm OD4+
Scale number:	870–900 nm DIR LB4; 900–1000 nm DIR LB5; 1000–1400 nm D LB6 + IR LB7; 1400–2300 & 2850–3000 nm DI LB4 LP CE
Transmittance:	69%
Suitable wavelengths:	870–3000 nm
Application:	980 nm laser diodes, Nd:YAG, fibre, holmium, thulium and erbium lasers
Certified to:	CE EN207

Frame styles available: F33 / F36 / F52 / F301 / F304 / F305

AUSTRALIAN STANDARDS NOTE

Filters are certified to CE EN207, the European laser eyewear standard. The Optical Density (OD) / Scale Number (LB) values reported use the same methodology referenced by AS/NZS IEC 60825.1:2014, Australia's laser safety standard. Confirm specific certification requirements with your safety advisor before use on a classified system.



AE-YL-HM B7 DIN4 950 – 1100 nm, OD7+

Type:	Laser welding helmet
Main material:	Nylon shell, PC absorbing laser safety filter
Optical density:	950–1100 nm OD7+, DIN 4
Scale number:	950–1100 nm D LB6 + IR LB7 LP S CE
Transmittance:	8%
Filter window size:	115 × 135 mm
Filter thickness:	3 mm
Application:	Handheld laser welding – protects the operator's eyes and face
Certified to:	EN ISO 16321, EN207

AUSTRALIAN STANDARDS NOTE

Certified to EN ISO 16321 and EN 207. Recommended as personal protection in addition to, not instead of, engineering controls required under AS/NZS IEC 60825.1:2014.



#1003



#1005



#1005AL

AE-YL-HM B8 DIN4 950 – 1100 nm, OD8+

Type:	Laser welding helmet
Main material:	Nylon shell, PC absorbing laser safety filter
Optical density:	950–1100 nm OD8+, DIN 4
Scale number:	950–1100 nm D LB7 + IR LB8 LP S CE
Transmittance:	6%
Filter window size:	115 × 135 mm
Filter thickness:	3.5 mm
Application:	Handheld laser welding – protects the operator's eyes and face
Certified to:	EN ISO 16321, EN207

AUSTRALIAN STANDARDS NOTE

Certified to EN ISO 16321 and EN 207. Recommended as personal protection in addition to, not instead of, engineering controls required under AS/NZS IEC 60825.1:2014.



#1003



#1005



#1005AL

AE-YL-HM B8 ADF 950 – 1100 nm, OD8+

Type:	Auto-darkening laser welding helmet
Main material:	Nylon shell, PC absorbing laser safety filter
Optical density:	950–1100 nm OD8+, ADF
Scale number:	950–1100 nm D LB7 + IR LB8 LP S CE
Transmittance:	4%
Filter window size:	106 × 93 mm
Filter thickness:	2.3 mm
Application:	Handheld laser welding – protects the operator's eyes and face
Certified to:	EN ISO 16321, EN207

AUSTRALIAN STANDARDS NOTE

Certified to EN ISO 16321 and EN 207. Recommended as personal protection in addition to, not instead of, engineering controls required under AS/NZS IEC 60825.1:2014.



#1003



#1005



#1005AL

AE-YL-HM B8 950 – 1100 nm, OD8+

Type:	Laser safety face shield
Main material:	Nylon shell, PC absorbing laser safety filter
Optical density:	950–1100 nm OD8+ (OD8+ DIN 4 variant available)
Scale number:	950–1100 nm D LB7 + IR LB8 LP S CE
Transmittance:	6% – 25%
Filter window size:	320 × 220 mm
Filter thickness:	2.3 mm
Application:	Laser cleaning and handheld laser welding – protects the operator's eyes and face
Certified to:	EN ISO 16321, EN207

AUSTRALIAN STANDARDS NOTE

Certified to EN ISO 16321 and EN 207. Recommended as personal protection in addition to, not instead of, engineering controls required under AS/NZS IEC 60825.1:2014.



#1007



#1007

AE-YL-HM B8 ADF PAPR 950 – 1100 nm, OD8+

Type:	Auto-darkening laser welding helmet with powered air-fed (PAPR) unit
Main material:	Nylon shell, PC absorbing laser safety filter
Suitable wavelengths:	950–1100 nm fibre laser
Optical density / scale number:	950–1100 nm OD8+; D LB7 + IR LB8 LP S CE
Transmittance:	4%
Filter window size:	106 × 93 mm
Filter thickness:	2.3 mm
Application:	Handheld laser welding – protects the operator's eyes and face
Certified to:	EN ISO 16321, EN207

AUSTRALIAN STANDARDS NOTE

Certified to EN ISO 16321 and EN 207. Recommended as personal protection in addition to, not instead of, engineering controls required under AS/NZS IEC 60825.1:2014.



AE-LSD 200 – 11000 nm

Type:	Laser safety dress (gown)
Main material:	Composite carbon fibre
Protected wavelength range:	200–11000 nm
Laser-strike indicator:	Visible white smoke on contact
Permissible exposure limit (PEL):	>300 W/cm² @ 1080 nm
Net weight:	1900 g
Size:	Free size
Application:	Laser welding, laser processing workshops, military laser use
Certified to:	EN 12254, IEC 60825-4

AUSTRALIAN STANDARDS NOTE

Certified to EN 12254 and IEC 60825-4. Suitable as supplementary PPE alongside engineering controls required under AS/NZS IEC 60825.1:2014.



AE-WPA 200 – 11000 nm

Type:	Protective apron
Main material:	Composite carbon fibre
Protected wavelength range:	200–11000 nm
Laser-strike indicator:	Visible white smoke on contact
Permissible exposure limit (PEL):	>300 W/cm² @ 1080 nm
Net weight:	1500 g
Size:	Free size
Application:	Laser welding, laser processing workshops, military laser use
Certified to:	EN 12254, IEC 60825-4

AUSTRALIAN STANDARDS NOTE

Certified to EN 12254 and IEC 60825-4. Suitable as supplementary PPE alongside engineering controls required under AS/NZS IEC 60825.1:2014.



AE-LSG 200 – 11000 nm

Type:	Protective gloves
Main material:	Composite carbon fibre
Protected wavelength range:	200–11000 nm
Laser-strike indicator:	Visible white smoke on contact
Permissible exposure limit (PEL):	>300 W/cm² @ 1080 nm
Net weight:	205 g
Size:	Free size
Application:	Laser welding, laser processing workshops, military laser use
Certified to:	EN 12254, IEC 60825-4

AUSTRALIAN STANDARDS NOTE

Certified to EN 12254 and IEC 60825-4. Suitable as supplementary PPE alongside engineering controls required under AS/NZS IEC 60825.1:2014.

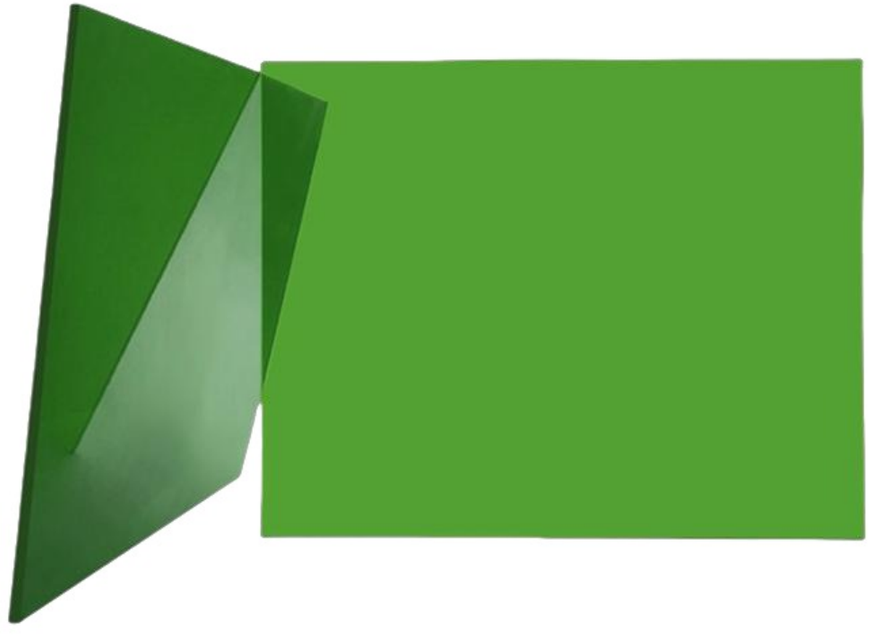


AE-YLW5 900 – 1700 nm

Type:	Laser safety window – fibre laser
Main material:	PMMA
Optical density:	900–1030 nm OD>6; 1030–1400 nm OD>7; 1400–1700 nm OD>6
Scale number:	900–1030 nm D AB6 + I AB6; 1030–1400 nm D AB4 + I AB8 + R AB8; 1400–1700 nm D AB2 + I AB3
Transmittance:	22%
Standard size:	1000 × 1200 mm – custom sizes available
Thickness:	5 mm
Application:	Fibre laser protection
Certified to:	EN 12254

AUSTRALIAN STANDARDS NOTE

Certified to EN 12254 (European standard for laser-protective screens). OD values use the same measurement basis referenced by AS/NZS IEC 60825.1:2014.

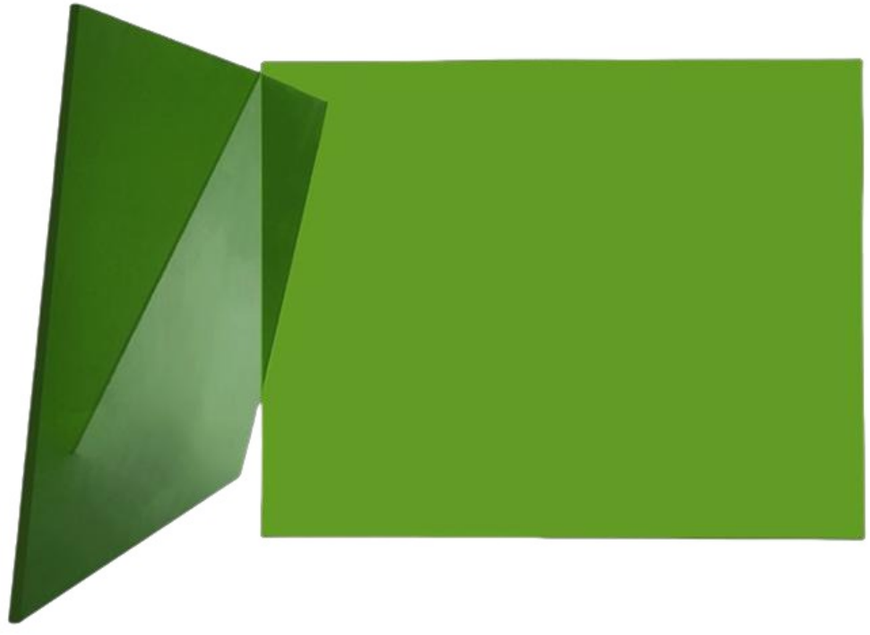


AE-YLW5 (3 mm) 900 – 1700 nm

Type:	Laser safety window – fibre laser
Main material:	PMMA
Optical density:	200–450 nm OD>5; 900–1030 nm OD>5; 1030–1400 nm OD>6; 1400–1700 nm OD>5
Scale number:	316–450 nm DIR AB5; 900–1030 nm D AB5 + I AB5; 1030–1400 nm D AB4 + I AB7 + R AB7; 1400–1700 nm D AB2 + I AB3
Transmittance:	20%
Standard size:	1000 × 1200 mm – custom sizes available
Thickness:	3 mm
Application:	Fibre laser protection
Certified to:	EN 12254

AUSTRALIAN STANDARDS NOTE

Certified to EN 12254 (European standard for laser-protective screens). OD values use the same measurement basis referenced by AS/NZS IEC 60825.1:2014.

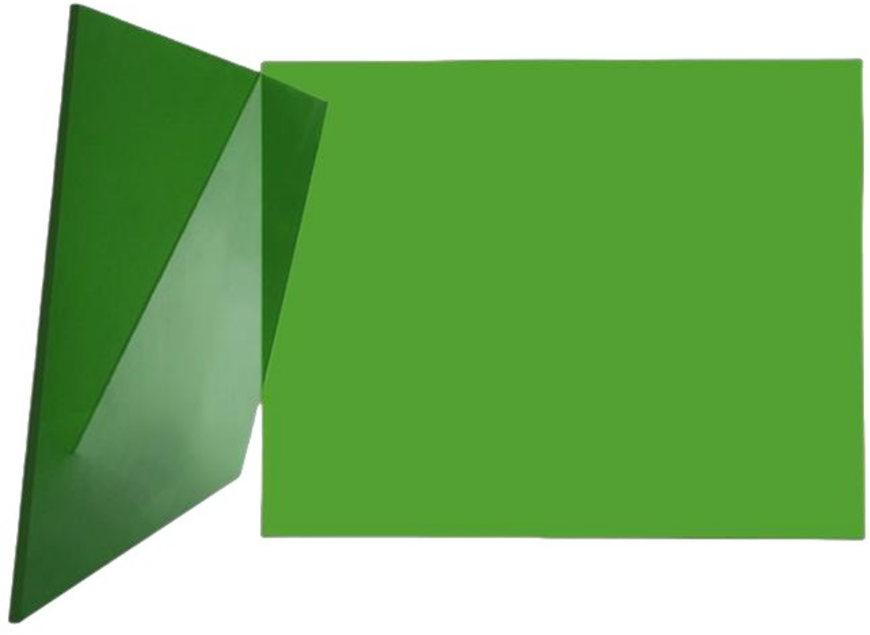


AE-YLW5 (6 mm) 900 – 1700 nm

Type:	Laser safety window – fibre laser
Main material:	PMMA
Optical density:	900–1030 nm OD>6; 1030–1400 nm OD>8; 1400–1700 nm OD>6
Scale number:	900–1030 nm D AB6 + I AB6; 1030–1400 nm D AB4 + I AB8 + R AB8; 1400–1700 nm D AB2 + I AB3
Transmittance:	13%
Standard size:	1000 × 1200 mm – custom sizes available
Thickness:	6 mm
Application:	Fibre laser protection
Certified to:	EN 12254

AUSTRALIAN STANDARDS NOTE

Certified to EN 12254 (European standard for laser-protective screens). OD values use the same measurement basis referenced by AS/NZS IEC 60825.1:2014.



AE-YLW6 900 – 1095 nm (high transmittance)

Type:	Laser safety window – high transmittance
Main material:	PMMA
Optical density:	900–1080 nm OD>6; 1080–1095 nm OD>4
Scale number:	D AB5 + IR AB6 LP 900–1050 nm; D AB5 + IR AB6 LP >1050–1080 nm; DIR AB4 LP >1080–1095 nm
Transmittance:	40%
Standard size:	1000 × 1200 mm – custom sizes available
Thickness:	5 mm
Application:	Fibre laser protection
Certified to:	EN 12254

AUSTRALIAN STANDARDS NOTE

Certified to EN 12254 (European standard for laser-protective screens). OD values use the same measurement basis referenced by AS/NZS IEC 60825.1:2014.



AE-YLW7 930 – 1150 nm & 9000 – 11000 nm

Type:	Laser safety window – PC material
Main material:	Polycarbonate (PC)
Optical density:	930–1030 nm OD>5; 1030–1150 nm OD>7; 9000–11000 nm OD>6
Scale number:	>930–1030 nm DIR AB5; >1030–1150 nm D AB6 + IR AB7; >9000–11000 nm DI AB4
Transmittance:	20%
Standard size:	1000 × 1200 mm – custom sizes available
Thickness:	5 mm
Application:	Fibre laser protection
Certified to:	EN 12254

AUSTRALIAN STANDARDS NOTE

Certified to EN 12254 (European standard for laser-protective screens). OD values use the same measurement basis referenced by AS/NZS IEC 60825.1:2014.

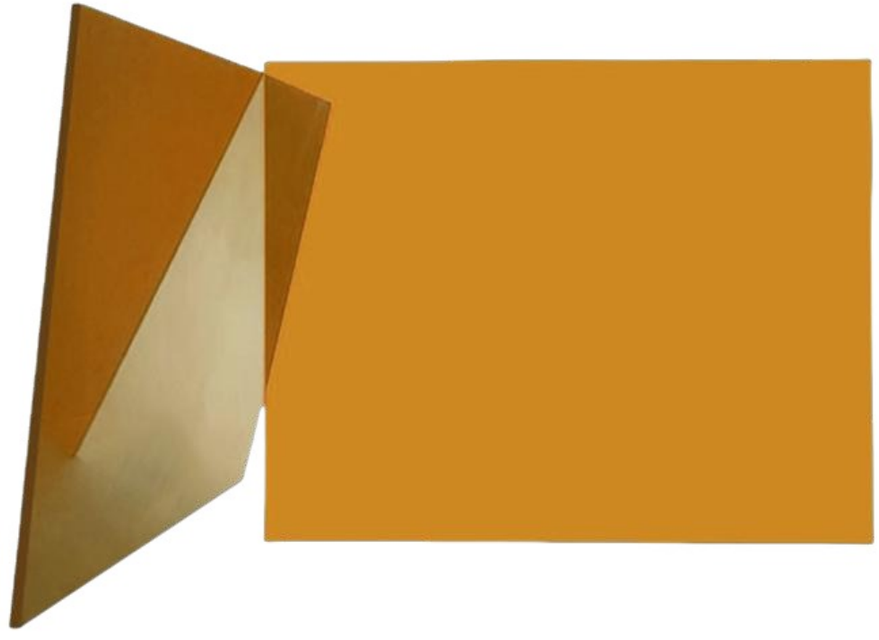


AE-GYW 200 – 540 nm & 1030 – 1090 nm

Type:	Laser safety window
Main material:	PMMA
Optical density:	200–540 nm OD>4; 1030–1090 nm OD>6
Scale number:	315–540 nm DIR AB4; >1030–1090 nm DIR AB6
Transmittance:	6%
Standard size:	1000 × 1200 mm – custom sizes available
Thickness:	5 mm
Application:	Industrial laser processing
Certified to:	EN 12254

AUSTRALIAN STANDARDS NOTE

Certified to EN 12254 (European standard for laser-protective screens). OD values use the same measurement basis referenced by AS/NZS IEC 60825.1:2014.



AE-LSC 316 – 11000 nm

Type:	Laser safety curtain
Protected wavelength range:	316–11000 nm
Scale number:	DIR AB6 + IR AB7 316–1030 nm; D AB5 + IR AB8 >1030–1400 nm; DI AB3 1400–11000 nm LP
Standard size:	1.5 × 2 m – custom sizes available
Permissible exposure limit (PEL):	>500 W/cm² @ 1080 nm
Application:	Laser welding, industrial laser use
Certified to:	EN 12254, EN 60825-4

AUSTRALIAN STANDARDS NOTE

Certified to EN 12254 and IEC 60825-4. Suitable as supplementary PPE alongside engineering controls required under AS/NZS IEC 60825.1:2014.



AE-LSB 316 – 11000 nm

Type:	Laser safety barrier
Protected wavelength range:	316–11000 nm
Scale number:	D AB7 + IR AB8 316–1400 nm; DI AB4 >1400–11000 nm LP
Standard sizes:	1 × 2.05 m, 1.5 × 2.05 m, 1 × 2.3 m, 1.5 × 2.3 m – custom sizes available
Permissible exposure limit (PEL):	>25000 W/cm² @ 1080 nm
Application:	Laser welding, industrial laser use
Certified to:	EN 12254, EN 60825-4

AUSTRALIAN STANDARDS NOTE

Certified to EN 12254 and IEC 60825-4. Suitable as supplementary PPE alongside engineering controls required under AS/NZS IEC 60825.1:2014.

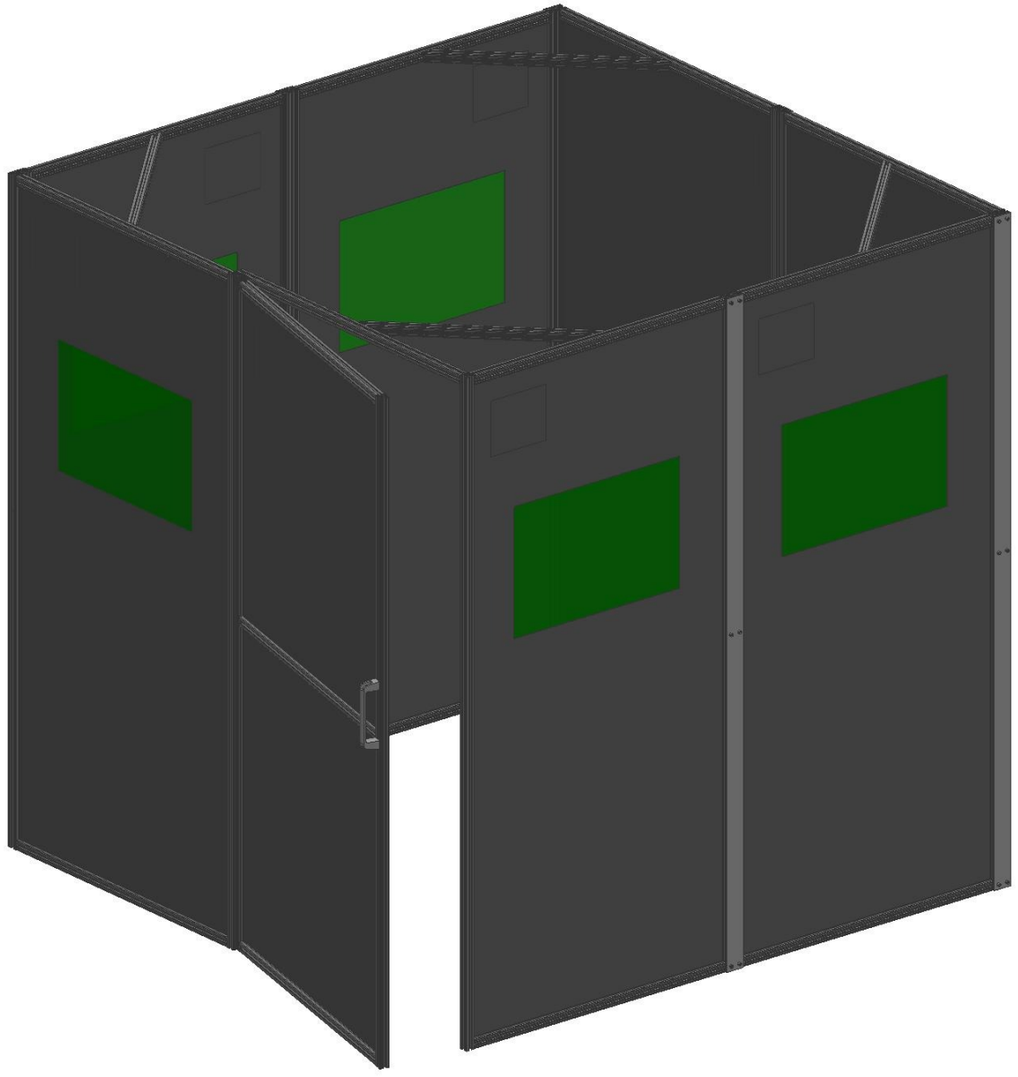


AE-CAB Open-top enclosure

Type:	Laser safety enclosure (open-top)
Composition:	Laser Safety Barrier (AE-LSB) + Laser Safety Window (AE-YLW5)
Structural design:	Single door, open-top structure
Protection configuration:	Fitted with professional laser safety viewing windows
Core function:	Built-in safety interlock – the laser source is cut off immediately when the door opens
Size:	2 × 2 × 2.05 m – other sizes and heights available on request
Application:	Laser welding, industrial laser use
Certified to:	EN 12254, EN 60825-4

AUSTRALIAN STANDARDS NOTE

Certified to EN 12254 and EN 60825-4. Interlock logic should be verified against AS/NZS IEC 60825.1:2014 Clause 6.13 during commissioning.

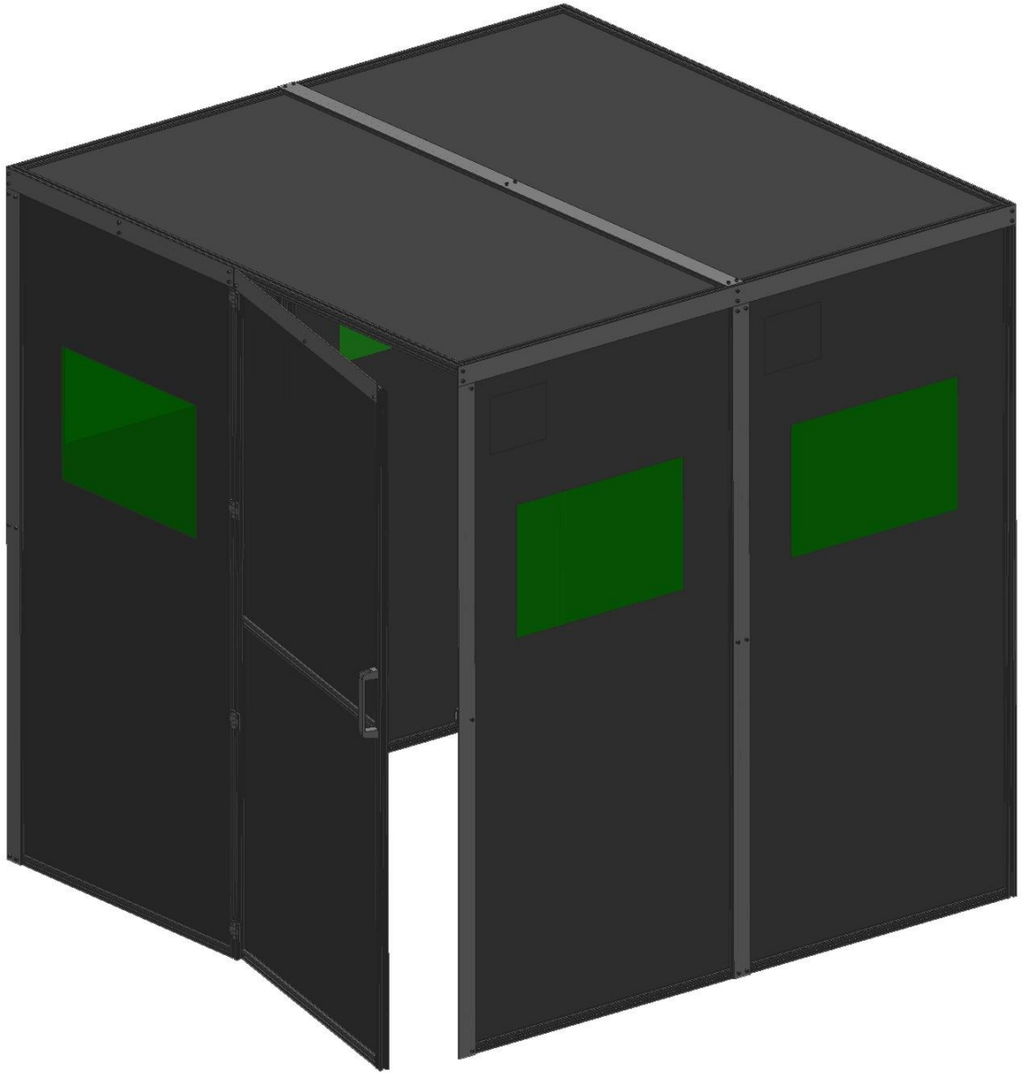


AE-CAB Closed-top enclosure

Type:	Laser safety enclosure (closed-top)
Composition:	Laser Safety Barrier (AE-LSB) + Laser Safety Window (AE-YLW5)
Structural design:	Single door, fully enclosed top cover with complete protective cavity
Protection configuration:	Fitted with professional laser safety viewing windows
Core function:	Built-in safety interlock – the laser source is cut off immediately when the door opens
Size:	2 × 2 × 2.08 m – other sizes and heights available on request
Application:	Laser welding, industrial laser use
Certified to:	EN 12254, EN 60825-4

AUSTRALIAN STANDARDS NOTE

Certified to EN 12254 and EN 60825-4. Interlock logic should be verified against AS/NZS IEC 60825.1:2014 Clause 6.13 during commissioning.

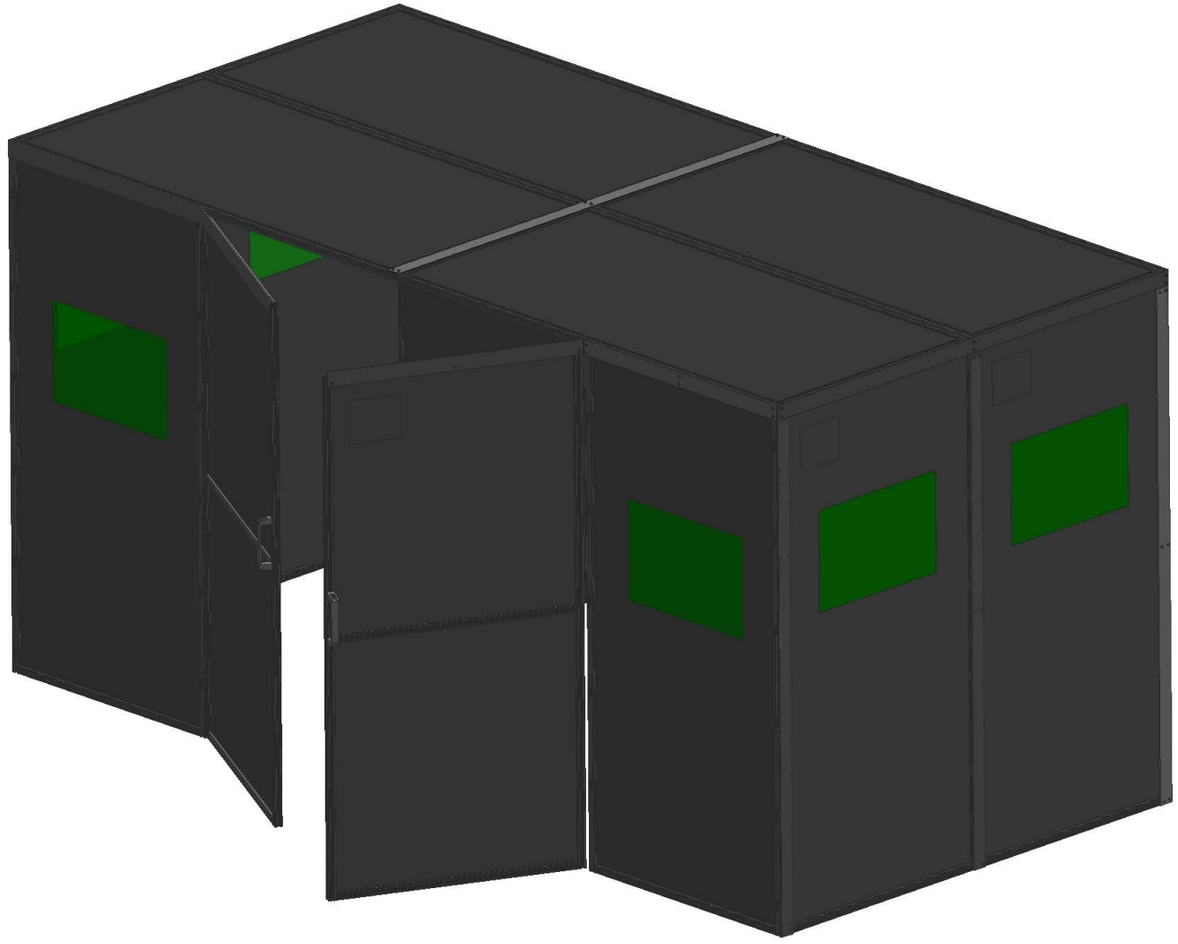


AE-CAB Double-door, closed-top enclosure

Type:	Laser safety enclosure (double-door, closed-top)
Composition:	Laser Safety Barrier (AE-LSB) + Laser Safety Window (AE-YLW5)
Structural design:	Front side-by-side double doors, fully enclosed closed-top structure with a spacious interior
Protection configuration:	Fitted with professional laser safety viewing windows
Core function:	Built-in safety interlock – the laser source is cut off immediately when a door opens
Size:	2 × 4 × 2.08 m – other sizes and heights available on request
Application:	Laser welding, industrial laser use
Certified to:	EN 12254, EN 60825-4

AUSTRALIAN STANDARDS NOTE

Certified to EN 12254 and EN 60825-4. Interlock logic should be verified against AS/NZS IEC 60825.1:2014 Clause 6.13 during commissioning.

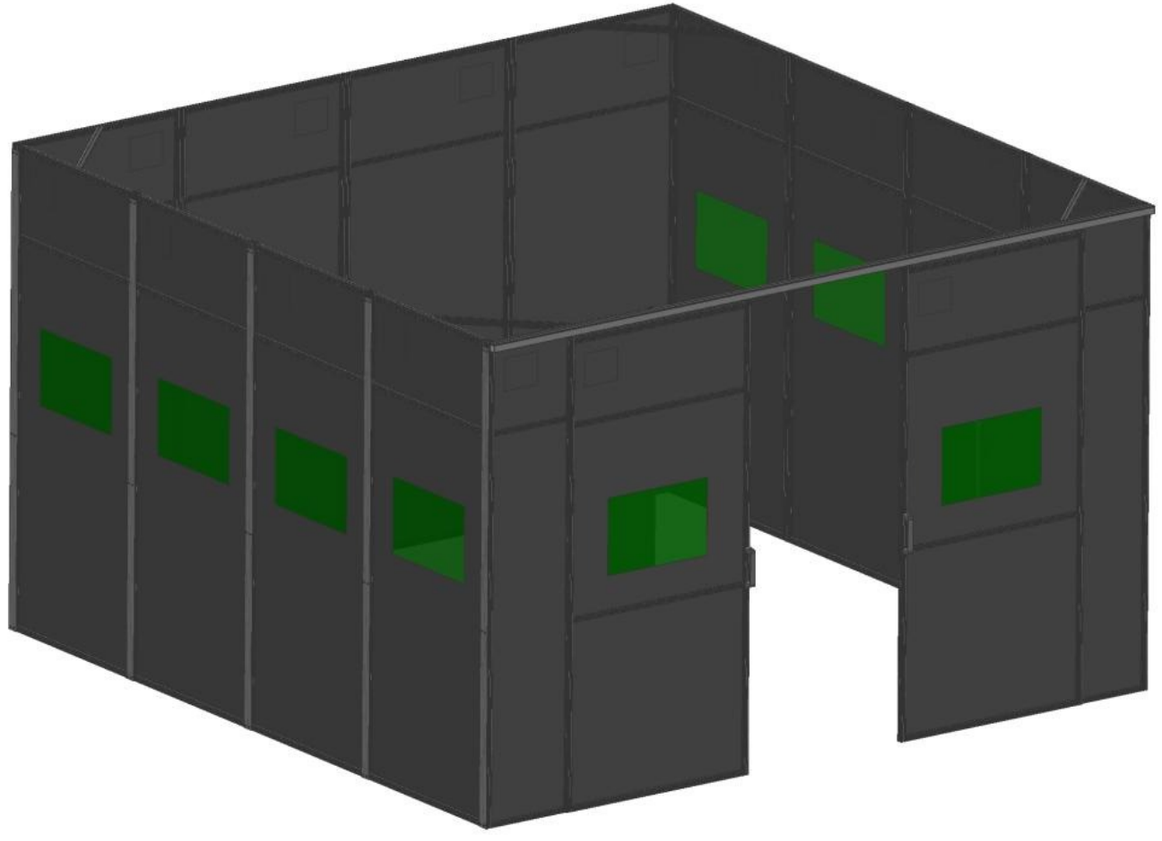


AE-CAB Sliding-door enclosure

Type:	Laser safety enclosure (sliding door)
Composition:	Laser Safety Barrier (AE-LSB) + Laser Safety Window (AE-YLW5)
Structural design:	Horizontal sliding double doors, open-top structure – no extra external space required
Protection configuration:	Fitted with professional laser safety viewing windows
Core function:	Built-in safety interlock – the laser source is cut off immediately when a door opens
Size:	4 × 4 × 2.3 m – other sizes and heights available on request
Application:	Laser welding, industrial laser use
Certified to:	EN 12254, EN 60825-4

AUSTRALIAN STANDARDS NOTE

Certified to EN 12254 and EN 60825-4. Interlock logic should be verified against AS/NZS IEC 60825.1:2014 Clause 6.13 during commissioning.



AE-CAB Laser welding workstation

Type: Integrated mobile laser welding workstation

Description: An all-in-one cabinet and operating table design built on Anka's laser safety enclosure system, fitted with a large-area laser safety viewing window and lockable castors for flexible repositioning. Suited to small laser welding cells and exhibition use.

Application: Laser welding, industrial laser use

Certified to: EN 12254, EN 60825-4

AUSTRALIAN STANDARDS NOTE

Certified to EN 12254 and EN 60825-4. Interlock logic should be verified against AS/NZS IEC 60825.1:2014 Clause 6.13 during commissioning.

