



FLACHGLAS Wernberg GmbH  
Nuernberger Strasse 140  
D-92533 Wernberg Koeblitz



06

### EN 12150-2

Thermally toughened soda lime silicate safety glass,  
intended to be used in buildings and construction  
works

DELODUR Optiwhite 4 mm

#### Properties

Resistance To Fire	NPD
Reaction To Fire	A1
External Fire Performance	NPD
Bullet Resistance	NPD
Explosion Resistance	NPD
Burgular Resistance	NPD
Pendulum Body Impact Resistance	1(C)2
Resistance Against Sudden Temperature Changes and Temperature Differentials	200 K
Wind, Snow, Permanent and Imposed Load Resistance	4 mm
Direct Airbone Sound Insulation	29 (-2;-3) dB
Thermal Properties	5,8 W/(m <sup>2</sup> K)
Radiation Properties	
• Light Transmittance / Reflectance	0,92 / 0,08
• Solar Transmittance / Reflectance	0,91 / 0,08



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**EN 12150-2**

Thermally toughened soda lime silicate safety glass,  
intended to be used in buildings and construction  
works

DELODUR Optiwhite 5mm

Properties

Resistance To Fire	NPD
Reaction To Fire	A1
External Fire Performance	NPD
Bullet Resistance	NPD
Explosion Resistance	NPD
Burgular Resistance	NPD
Pendulum Body Impact Resistance	1(C)2
Resistance Against Sudden Temperature Changes and Temperature Differentials	200 K
Wind, Snow, Permanent and Imposed Load Resistance	5 mm
Direct Airbone Sound Insulation	30 (-1;-2) dB
Thermal Properties	5,8 W/(m <sup>2</sup> K)
Radiation Properties	
• Light Transmittance / Reflectance	0,92 / 0,08
• Solar Transmittance / Reflectance	0,90 / 0,08



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Thermally toughened soda lime silicate safety glass,  
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works

DELODUR Optiwhite 6 mm

Properties

Resistance To Fire	NPD
Reaction To Fire	A1
External Fire Performance	NPD
Bullet Resistance	NPD
Explosion Resistance	NPD
Burgular Resistance	NPD
Pendulum Body Impact Resistance	1(C)2
Resistance Against Sudden Temperature Changes and Temperature Differentials	200 K
Wind, Snow, Permanent and Imposed Load Resistance	6 mm
Direct Airbone Sound Insulation	31 (-2;-3) dB
Thermal Properties	5,7 W/(m <sup>2</sup> K)
Radiation Properties	
• Light Transmittance / Reflectance	0,91 / 0,08
• Solar Transmittance / Reflectance	0,90 / 0,08



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Thermally toughened soda lime silicate safety glass,  
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works

DELODUR Optiwhite 8 mm

Properties

Resistance To Fire	NPD
Reaction To Fire	A1
External Fire Performance	NPD
Bullet Resistance	NPD
Explosion Resistance	NPD
Burgular Resistance	NPD
Pendulum Body Impact Resistance	1(C)2
Resistance Against Sudden Temperature Changes and Temperature Differentials	200 K
Wind, Snow, Permanent and Imposed Load Resistance	8 mm
Direct Airbone Sound Insulation	32 (-2;-3) dB
Thermal Properties	5,7 W/(m <sup>2</sup> K)
Radiation Properties	
• Light Transmittance / Reflectance	0,91 / 0,08
• Solar Transmittance / Reflectance	0,89 / 0,08



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**EN 12150-2**

Thermally toughened soda lime silicate safety glass,  
intended to be used in buildings and construction  
works

DELODUR Optiwhite 10 mm

Properties

Resistance To Fire	NPD
Reaction To Fire	A1
External Fire Performance	NPD
Bullet Resistance	NPD
Explosion Resistance	NPD
Burgular Resistance	NPD
Pendulum Body Impact Resistance	1(C)1
Resistance Against Sudden Temperature Changes and Temperature Differentials	200 K
Wind, Snow, Permanent and Imposed Load Resistance	10 mm
Direct Airbone Sound Insulation	33 (-2;-3) dB
Thermal Properties	5,6 W/(m <sup>2</sup> K)
Radiation Properties	
• Light Transmittance / Reflectance	0,91 / 0,08
• Solar Transmittance / Reflectance	0,88 / 0,08



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Thermally toughened soda lime silicate safety glass,  
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works

DELODUR Optiwhite 12 mm

Properties

Resistance To Fire	NPD
Reaction To Fire	A1
External Fire Performance	NPD
Bullet Resistance	NPD
Explosion Resistance	NPD
Burgular Resistance	NPD
Pendulum Body Impact Resistance	1(C)1
Resistance Against Sudden Temperature Changes and Temperature Differentials	200 K
Wind, Snow, Permanent and Imposed Load Resistance	12 mm
Direct Airbone Sound Insulation	34 (-0;-2) dB
Thermal Properties	5,5 W/(m <sup>2</sup> K)
Radiation Properties	
• Light Transmittance / Reflectance	0,90 / 0,08
• Solar Transmittance / Reflectance	0,87 / 0,08



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Thermally toughened soda lime silicate safety glass,  
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works

DELODUR Optiwhite 15 mm

Properties

Resistance To Fire	NPD
Reaction To Fire	A1
External Fire Performance	NPD
Bullet Resistance	NPD
Explosion Resistance	NPD
Burgular Resistance	NPD
Pendulum Body Impact Resistance	1(C)1
Resistance Against Sudden Temperature Changes and Temperature Differentials	200 K
Wind, Snow, Permanent and Imposed Load Resistance	15 mm
Direct Airbone Sound Insulation	34 (-0;-2) dB
Thermal Properties	5,5 W/(m <sup>2</sup> K)
Radiation Properties	
• Light Transmittance / Reflectance	0,90 / 0,08
• Solar Transmittance / Reflectance	0,85 / 0,08



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Thermally toughened soda lime silicate safety glass,  
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works

DELODUR Optiwhite 19 mm

Properties

Resistance To Fire	NPD
Reaction To Fire	A1
External Fire Performance	NPD
Bullet Resistance	NPD
Explosion Resistance	NPD
Burgular Resistance	NPD
Pendulum Body Impact Resistance	1(C)1
Resistance Against Sudden Temperature Changes and Temperature Differentials	200 K
Wind, Snow, Permanent and Imposed Load Resistance	19 mm
Direct Airbone Sound Insulation	34 (-0;-2) dB
Thermal Properties	5,3 W/(m <sup>2</sup> K)
Radiation Properties	
• Light Transmittance / Reflectance	0,88 / 0,07
• Solar Transmittance / Reflectance	0,84 / 0,07