



# The new standards of CIS on building glasses

**Olga A. Emelianova,  
Alexander G. Chesnokov,  
SC “Institute of Glass”  
Moscow, Russia**



## New standards of CIS

- GOST 24866-99 "Sealed insulating glass units. Specifications",
- GOST 30698-2000 "Tempered glass for building. Specifications",
- GOST 30733-2000 "Hard coat low emissivity glass. Specifications".



# Characteristic properties of IGU in new standard

Type of insulated glass unit	Type of glazing	Resistance to a heat transfer, m <sup>2</sup> C/Wt, not less	Direct transmittance of light, %, not less	Sound insulation, dBA, not less	dew point, °C, not above,	Class of protection, not less
basic building assignment	double	0,32	80	25	minus 45	-
	triple	0,44	72	27	the same	-
crash-proof	double	0,32	74	26	»	A1
	triple	0,44	67	28	»	A1
solar-control	double	0,32	-	25	»	-
	triple	0,44	-	27	»	-
energy-efficient	double	0,58	75	26	»	-
	triple	0,78	68	28	»	-
cold-resistant	double	0,58	75	26	minus 55	-
	triple	0,78	68	28	the same	-
noise-insulating	double	0,32	74	34	minus 45	-
	triple	0,44	67	34	the same	-

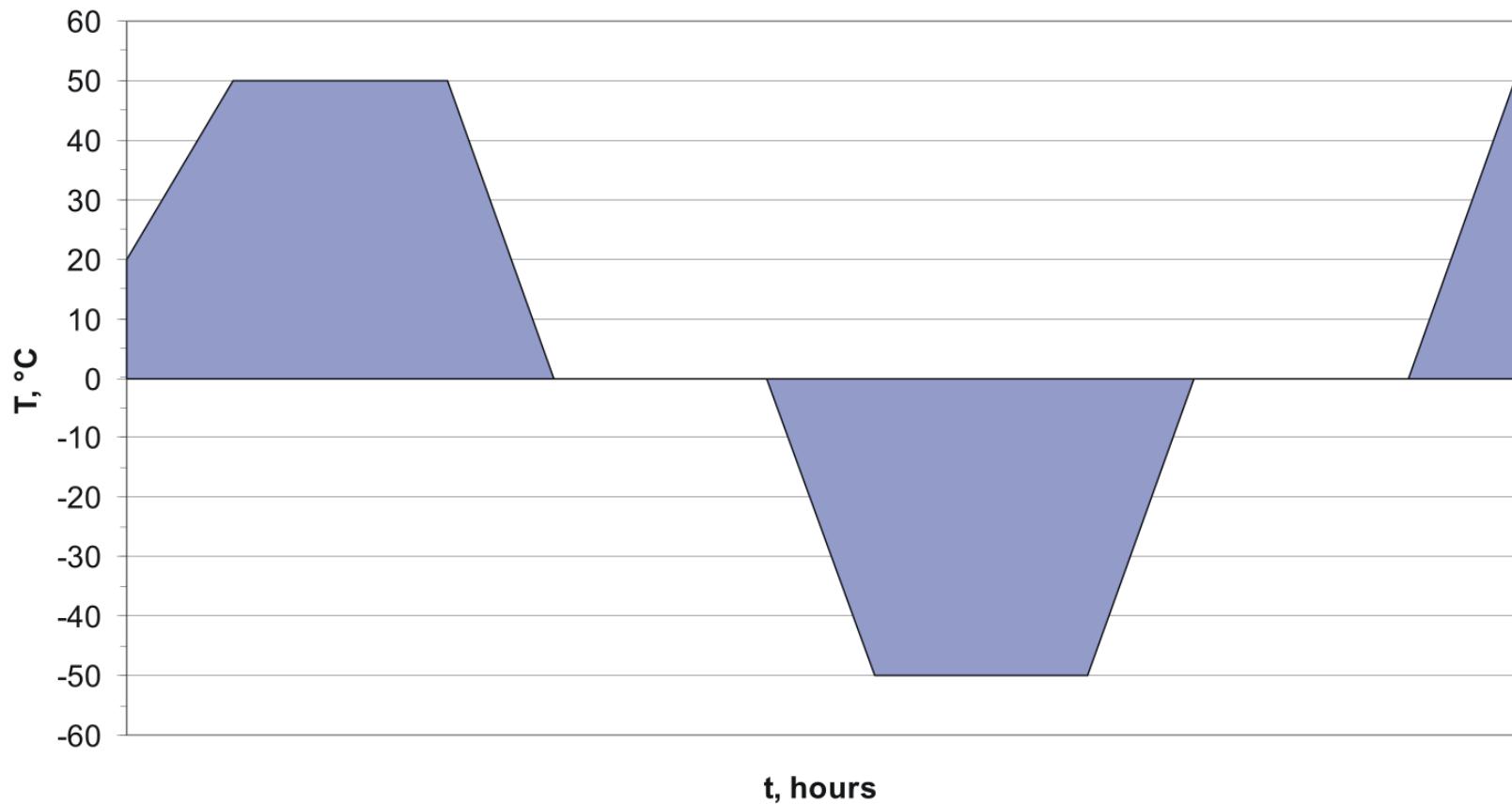


# Standards in development phase

- "Sealed insulating glass units for building purpose. Method of determination of resistance to climatic effects",
- GOST 111-90 "Polished glass. Specifications".

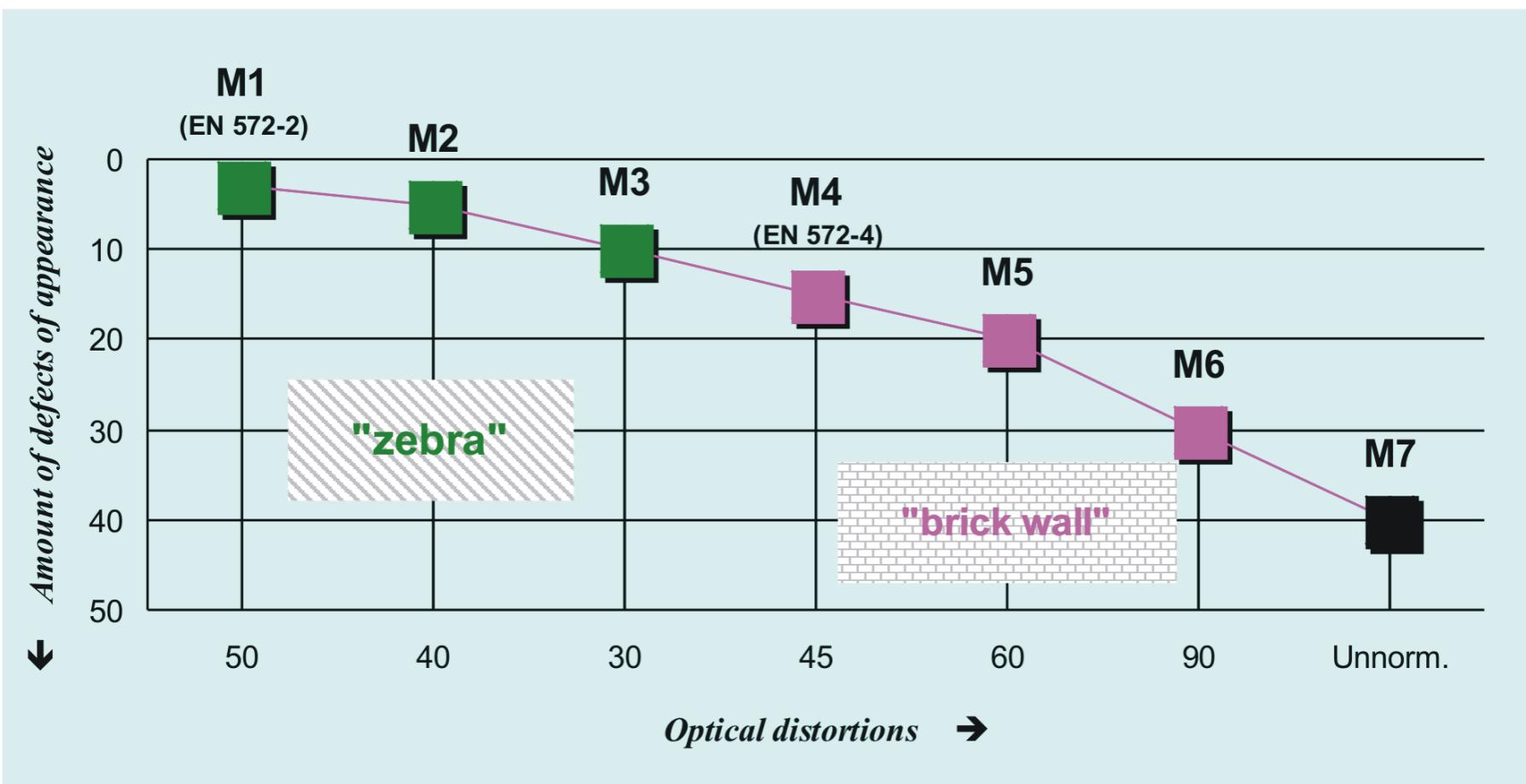


# Temperature changes during the test of IGU





# Seven marks of flat glass





# GOST 111-01 requirements for different glass marks

