



**On the activity of the Russian
Standardization Technical
Committee TC “Glass”**

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GPD-2011

19.06.2011

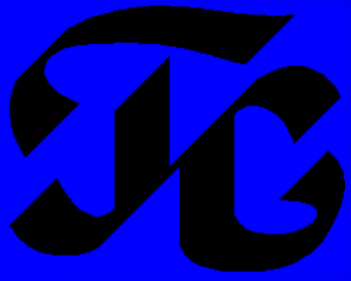


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Introduction – some information about TC 41 “Glass”



Established 08.06.2009

(The order of the Rosstandard № 1963)



The members of the TC “Glass”



27 organizations:

- Glass producers
- Glass consumers
- Scientific research and project engineering institutions
- Testing and certification centers



TC “Glass” activity field



ICS 81.040: Glass

HS 7003, 7004, 7005, 7006, 7007, 7008,
7009, 7010, 7016

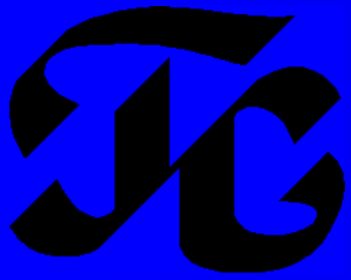
ОКП (ОСР) 59 1000, 59 2000



Comparison data about standards in 2008



Standards status	Standards quantity		
	ISO	CEN	Russia
Functional, from them:	61	70	38
- approved in 2005 – 2008	15	11	3
- approved before 1990 inc.	17	0	27
Newly developing and revising	21	20	1



Program of glass products standardization in Russia (reference)

Alexander G. Chesnokov,
Elena A. Cheremkhina,
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OAO “Glass Research Institute”,
Moscow, Russia

GPD-2009

15.06.2009



Main goals of the standards development



creating of normative base for controlling of fulfillment of mandatory requirements to the glass concerning safety issues in application as provided by technical regulations,

standards harmonization in terms using and test methods,

new product types standardization,

maximum possible unification of technical requirements and test methods between Russian standards and ISO and CEN standards,

exclusion of obsolete requirements and test methods.



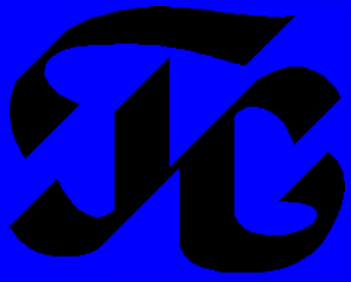
Standardization rules in Russia (reference)



Particularities to standardization and certification of
glass products in Russia

Olga A. Emelianova,
Alexandre G. Tchesnokov

GPD-1999



Climatic factors (reference)



Designing of high-rise building glazing for strict climatic conditions

Alexander G. Chesnokov,
Elena A. Cheremkhina

GPD-2007
16.06.2007



23 new GOST R standards were developed during 2010



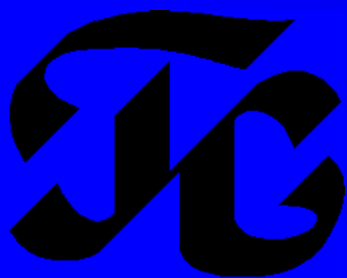
- ◆ 8 standards in substitution of discontinued ones
- ◆ 15 new standards
 - ▶ 19 are harmonized with ISO or CEN
 - ▶ 4 are original ones
 - 11 are specifications
 - 10 describe test methods
 - 2 formalize calculation methods



GOST R (ГОСТ Р) for the products types



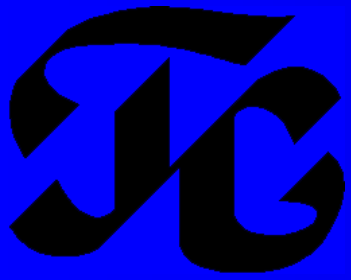
#	Label	Denotation	The closest international analogous standard	Discontinued standards
1	ГОСТ Р (GOST R) 54161-2010	Mirrors. General specifications	EN 1036-1:2007	ГОСТ (GOST) 17716-91
2	ГОСТ Р (GOST R) 54162-2010	Tempered glass. Specifications	EN 12150-1:2000, EN 12150-2:2004	ГОСТ (GOST) 30698-2000
3	ГОСТ Р (GOST R) 54169-2010	Tinted flat glass. General specifications	EN 572-8:2004	
4	ГОСТ Р (GOST R) 54170-2010	Clear flat glass. Specifications	EN 572-8:2004	ГОСТ (GOST) 111-2001
5	ГОСТ Р (GOST R) 54171-2010	Laminated glass. Specifications	EN ISO 12543-4:1998, EN ISO 12543-5:1998, EN ISO 12543-6:1998, ISO 16933-2007	ГОСТ (GOST) 30826-2001; ГОСТ Р (GOST R) 51136-2008
6	ГОСТ Р (GOST R) 54175-2010	Sealed insulating glass units. Specifications	EN 1279-1:2004, EN 1279-2:2002, EN 1279-3:2002, EN 1279-4:2002, EN 1279-6:2002	ГОСТ (GOST) 24866-99
7	ГОСТ Р (GOST R) 54176-2010	Soft coating low emissivity glass. Specifications	EN 1096-1:1998, EN 1096-3:2001, EN 1096-4:2004	ГОСТ (GOST) 31364-2007
8	ГОСТ Р (GOST R) 54177-2010	Hard coating low emissivity glass. Specifications	EN 1096-1:1998, EN 1096-2:2001, EN 1096-4:2004	ГОСТ (GOST) 30733-2000
9	ГОСТ Р (GOST R) 54178-2010	Soft coating solar protection or decorative glass. Specifications	EN 1096-1:1998, EN 1096-3:2001, EN 1096-4:2004	
10	ГОСТ Р (GOST R) 54179-2010	Hard coating solar protection or decorative glass. Specifications	EN 1096-1:1998, EN 1096-2:2001, EN 1096-4:2004	
11	ГОСТ Р (GOST R) 54180-2010	Heat strengthened glass. Specifications	EN 1863-1:2000, EN 1863-2:2000	



GOST R (ГОСТ Р) for the test methods



#	Label	Denotation	The closest international analogous standard	Discontinued standards
1	ГОСТ Р (GOST R) 54163-2010	Glass and glass products. Test methods for resistance to climatic exposure. Frost resistance test method		
2	ГОСТ Р (GOST R) 54164-2010 (ISO 9050:2003)	Glass and glass products. Optical characteristics determination methods. Determination of luminous and solar characteristics	ISO 9050:2003	
3	ГОСТ Р (GOST R) 54165-2010 (ISO 10293:1997)	Glass and glass products. Thermal properties determination methods. Thermal resistance determination method	ISO 10293:1997	
4	ГОСТ Р (GOST R) 54168-2010	Glass and glass products. Thermal properties determination methods. Determination of the emissivity	EN 12898:2001	
5	ГОСТ Р (GOST R) 54172-2010	Insulating glass units. Method of determination of life circle	EN 1279-2:2002	ГОСТ (GOST) 30779-2001
6	ГОСТ Р (GOST R) 54173-2010 (EN 1279-4:2002)	Insulating glass units. Methods of test for the physical attributes of edge seals	EN 1279-4:2002	
7	ГОСТ Р (GOST R) 54174-2010 (EN 1279-6:2002)	Insulating glass units. Methods and rules of products quality assurance	EN 1279-6:2002	
8	ГОСТ Р (GOST R) 54181-2010	Glass and glass products. Test method for resistance to humidity		
9	ГОСТ Р (GOST R) 54182-2010	Glass and glass products. Salt spray test method		
10	ГОСТ Р (GOST R) 54183-2010	Glass and glass products. Test method for resistance to UV-radiation		



GOST R (ГОСТ Р) for the calculation methods



#	Label	Denotation	The closest international analogous standard	Discontinued standards
1	ГОСТ Р (GOST R) 54166-2010 (EN 673:1997)	Glass and glass products. Thermal properties determination methods. Thermal resistance calculation method	EN 673:1997	
2	ГОСТ Р (GOST R) 54167-2010 (ISO 14438:2002)	Glass and glass products. Determination of energy balance value. Calculation method	ISO 14438:2002	



GOST R (ГОСТ Р) under approval



- 1) ГОСТ Р (GOST R) Glass and glass products. Fire resistance test method (close to ISO 834–1:1999, EN 1363–1:1999, EN 1363–2:1999, EN 13501–2:2007)
- 2) ГОСТ Р (GOST R) (ISO 16932:2007) Glass and glass products. Destructive-windstorm-resistant security glazing. Method of testing and classification
- 3) ГОСТ Р (GOST R) (ISO 16940:2008) Glass and glazing. Sound insulation determination method



TC 41 “Glass” international cooperation



ISO TC 160

- TC 41 is official representative of Russia in ISO TC 160
- GOST R drafts harmonization with ISO TC 160 standards
- 6 members of TC 41 are members of ISO TC 160 too
- Proposals preparation for the ISO TC 160 standards drafts
- Proposals preparation for the ISO TC 160 standards development plan



TC 41 “Glass” international cooperation



CEN TC 129

- Information and work plans exchange with the CEN TC 129 members
- Harmonization of the GOST R projects with CEN TC 129 standards



TC 41 “Glass” international cooperation



Within the scope of CIS

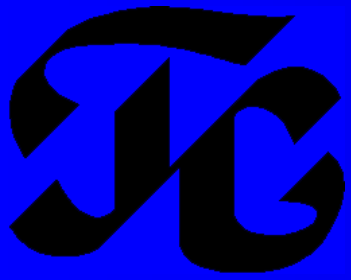
- Foundation of the Interstate technical committee for the glass and glass products standardization on the TC 41 basis
- Development of the CIS interstate standards on the GOST R basis



TC 41 “Glass” short-range plans



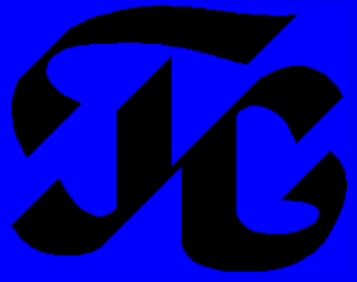
Development during 2011 – 2012 of 32 CIS interstate
standard drafts, listed on our poster



Conclusions



1. In spite of the crisis, Russian glass and glass products standards development program is achieved.
2. Requirements for the glass and glass products in Russia are harmonizing with international ones.
3. The lag between Europe and Russia in quantity and actuality of the standards are reduced.



Thank you for attention!



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