

Semi-manufactured product

KOMO® product certificate

SKH

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MODIFIED TIMBER FINTI EN FINBEAM

Number: 33308/25
Issued: 01-03-2025
Replaces: 33308/22

Producer

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THE NETHERLANDS
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Website: http://www.finti.com

Declaration of SKH

This product certificate is based upon AD 0605 'Modified timber' dd. 20-06-2018, issued by SKH, in conformity with the SKH Regulations for Certification.

SKH declares that:

- there is a legitimate confidence that modified timber manufactured by the producer continuously complies with the technical specifications laid down in this product certificate, provided that the modified timber have been marked with the KOMO® mark in a way as indicated in this product certificate.

For SKH

drs. H.J.O. van Doorn, director

The certificate is also included in the overview on the website of the KOMO foundation: <http://www.komo.nl>.

Users of this product certificate are advised to verify whether this certificate is still valid; consult the SKH-website: <http://www.skh.nl>.

This product certificate consists of 8 pages.

The Dutch version shall be consulted in case of doubt.



The following has been assessed:

- quality system
- product

Periodic check

MODIFIED TIMBER FINTI EN FINBEAM

1 PRODUCT SPECIFICATION

1.1 Description of product

The definition of FINTI and FINBEAM in this KOMO[®] product certificate is: the product of thermos-modified spruce and pine, botanically derived from *Picea abies* (L.) Karst and *Pinus sylvestris* (L.). By means of the modification process the durability of the timber has been increased in relation to the natural durability of spruce and pine, whereas a number of other properties of this timber have changed.

FINTI is produced from spruce and pine grading class A according to NEN 5466:2010.

FINBEAM is produced from spruce and pine grading class B and C according to NEN 5466:2010.

The performances in respect of the properties laid down in AD 0605 'Modified timber' are laid down in the 'Technical specification'.

2 TECHNICAL SPECIFICATION

2.1 Durability

The durability of FINTI and FINBEAM complies at least with the requirements for durability class 2 tested in accordance with NEN-EN 350 for Use Classe(s) 1, 2 and 3 according to EN 335.

2.2 Timber moisture content

FINTI and FINBEAM is supplied with a moisture content of $6 \pm 2\%$.

2.2.1 Equilibrium moisture content

The equilibrium moisture content of FINTI and FINBEAM at a relative humidity of 65%, 80% and 90% and a temperature of 20°C is $6 \pm 2\%$, $9 \pm 2\%$ and $11 \pm 2\%$ respectively.

2.2.2 Water absorption

When applying FINTI and FINBEAM in contact with (rain) water the moisture absorption is equal to that of untreated spruce and pine.

2.3 Dimensional stability

The swelling in radial and tangential direction of FINTI and FINBEAM shall, when absorbing moisture, be at least 50% less, compared with untreated spruce and pine.

2.4 Glue ability

FINTI used in window frames of which the joint is glued with Frencken Kozijnlijm 0819 SLS applies to Class C as mentioned in AD 0819 (SHR-Report 120742-3). FINTI applied in windows and doors of which the joints are glued with Frencken Wood Glue K100 meets the requirements for 'exterior facade joinery' according to AD 2339 (in accordance with SHR report 12.0742-4).

This product certificate does not express an opinion about the glue ability of FINBEAM.

2.5 Finishing

FINTI can be sealed with a sealant meeting the requirements of SKH Publication 04-01 and can be finished with opaque and transparent coatings meeting the requirements AD 0814 and AD 0817 (SHR-Report 120742-7).

This product certificate does not express an opinion about the finishing of FINBEAM.

2.6 Color value

This product certificate does not express an opinion on color value of FINTI and FINBEAM.

2.7 Density

The density of FINTI and FINBEAM at 20 °C and 65% RH is 400 kg/m³ for spruce and 560 kg/m³ for pine respectively.

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2.8 Mechanical properties

In particular the bending strength of FINTI and FINBEAM shall, by thermal modification, be less, compared with untreated timber. This product certificate does not express an opinion about the amount of decrease in mechanical properties.

When used in window frames of FINTI the span of the intermediate posts and sills shall be determined with a maximum strength grade of C27. In deviation with the KVT the maximum window dimensions will be 3100 mm width x 2750 mm height (SHR-Report 140201). For the windows (bridle and dowel joints), the maximum window size has to meet the requirements as shown in appendix 1.

2.9 Fire behaviour

This product certificate does not declare an opinion of FINTI and FINBEAM concerning the reaction to fire classes according EN 13501-1.

Remark:

Products produced according to AD 0605 are considered as semi-finished products and as such are not covered by the European Construction Products Regulation (CPR, EU 305/2011). No harmonized European product standard applies to the products belonging to the scope of this assessment directive.

The fire behavior is strongly influenced by the end-use application.

For this specific fire behavior it is necessary that this is substantiated by a classification report

EN 13501-1. For products for which a harmonized standard according to the CPR is available, the fire class must be demonstrated according to the requirements set in that standard.

3 ADDITIONAL TECHNICAL SPECIFICATION IN THE CONTEXT OF APPLICATION IN FAÇADE ELEMENTS

3.1 Burglary Resistance

This product certificate does not express an opinion of the application of FINBEAM in the production of burglary resistant façade elements.

FINTI is applicable for wooden facade elements with Burglary Resistance properties with the following types of hinges and locks:

Wooden facade elements with tilt and turn windows

Finti frames with or without intermediate stile and sill (frame wood at least 67 x 114; intermediate stile, sill minimum 90 x 114 mm) and Finti tilt and turn windows (window timber at least 67 x 90 mm) fitted with the following hinges and locks:

- Roto NT Designo II (see SKH Publication 98-08 appendix 2d03c); with a minimum of 10 striker plates and striker plate closing side at least 360 mm from the top. All strikers fixed with a minimum of 4 x 50 mm or 4.5 x 45 mm and screws for the tilt and turn fittings at least 4 x 40 mm, screws not pre-drilled;
- Roto NT H steel (see SKH Publication 98-08 appendix 2d03b); with 25 mm wide striker plates and striker plates in the same positions as Designo II, minimum 10 striker plates and striker plate closing side at least 360 mm from the top. All strikers fastened with a minimum of 4 x 50 mm or 4.5 x 45 mm and screws for the tilt and turn fittings a minimum of 4 x 40 mm, screws not pre-drilled;
- Siegenia-Aubi Favorite SI-line 304/312 (see SKH-Publication 98-08 appendix 2d05) with a minimum of 10 strikers. All strikers fastened with a minimum of 4 x 50 mm or 4.5 x 45 mm and screws for the tilt and turn fittings a minimum of 4 x 40 mm, screws not pre-drilled;
- Siegenia-Aubi 300 Safe-Plus (see SKH-Publication 98-08 appendix 2d05a) with a minimum of 10 striker plates. All strikers fastened with a minimum of 4 x 50 mm or 4.5 x 45 mm and screws for the tilt and turn fittings a minimum of 4 x 40 mm, screws not pre-drilled;
- Gretsch Unitas Uni-Jet Se (see SKH-Publication 98-08 appendix 2d01) with striker plates type GU 6-33082-00-0 attached with 2 screws 4 x 40 (straight) + 2 screws 4 x 50 (oblique) and screws minimum 4 x 45 mm for the tilt and turn fittings, screws not pre-drilled;
- Gretsch Unitas Uni-Jet Se S-Contura (see SKH-Publication 98-08 appendix 2d07) with type striker plates GU 6-33082-00-0 fastened with 2 screws 4 x 40 (straight) + 2 screws 4 x 50 (oblique) and screws for the tilt and turn fittings at least 4 x 45 mm, screws not pre-drilled;
- MACO Multi Trend i.S. 8/12 DT/AS/ concealed 18/12/6 and 18/4 DT (see SKH publication 98-08 appendix 2d02, 2d02a, 2d02b, 2d06, 2d06a and 2d06b) with striker plates type Maco 96860 (18 mm) and Maco 96561 (20 mm) fastened with 2 screws 4 x 40 mm (straight) + 1 screw 4 x 50 mm (slanted) and screws for the tilt and turn fitting minimum 4 x 40 mm, screws not pre-drilled.

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Wooden facade elements with inward and outward opening doors*

- Gretscht Unitas multi-point security lock Secury SH20/25, Noxxa NX-LC/ NX-HC/ NX-LK/ NX-HK, Secury Automatic and Secury MR2 (see SKH Publication 98-08 appendix 3b20, 3b21, 3c22, 3c23 and 3c24) with day/night striker type GU 9-46258 fixed with 3 screws 4.5 x 60 mm (oblique) and striker additional lock type GU 9-46259 fixed with 2 screws 4.5 x 50 mm (oblique).

* The manufacturer of the Finti doors must still demonstrate that the door meets the requirements of AD 0803.

3.2 Thermal Conductivity

The λ -value of FINTI and FINBEAM in the context of the determination of the thermal conductivity of wooden window frames is 0.095 W/(m*K).

4 Marking

FINTI and FINBEAM shall be marked per package with the KOMO[®]-mark.

The execution of this mark is as follows:

- KOMO[®] trademark or logo;
- no. **33308**;
- modified timber, durability class 2;
- use class: 1, 2 and 3 (possibly supplemented with corresponding colour and letter code).



Location of the mark: clearly visible on each package.

5 SUGGESTIONS FOR THE USER

5.1 On delivery of the modified timber inspect whether:

- the products comply with the contract of sale;
- the mark and the manner of marking are correct;
- the products do not show any visible defects due to transport or similar causes.

If the products are rejected on the basis of the above, contact shall be made with:
Finti B.V. and if desirable: The certification-body SKH.

5.2 Product certificate

It is the duty of the producer to make sure that the buyer receives a copy of the complete product certificate.

5.3 Applications and use

Transport, storage and deployment shall be in accordance with the working instructions provided by the website of the producer.

5.4 Period of validity

Consult the SKH-website: <http://www.skh.nl> to verify whether the product certificate is still valid.

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6 DOCUMENTS

AD 0605: 2018	Modified Timber;
AD 0801:2011+WB:2016	Wooden façade elements;
AD 0803:2013+WB:2016	Wooden exterior doors;
AD 0819:2010	Jointing techniques in wooden façade elements;
AD 2339:2012	Adhesives for non-load bearing applications;
NEN 5096:2012/A12015	Burglary resistance - Façade elements with doors, windows, shutters and fixed infillings - Requirements, classification and test methods;
NEN 5466:2010	Quality requirements for timber - External characteristics of European softwood
NEN-EN 335:2013	Durability of wood and wood-based products - Use classes: definitions, application to solid wood and wood-based products;
NEN-EN 338:2016	Structural timber - Strength classes;
NEN-EN 350:2016	Durability of wood and wood-based products - Testing and classification of the durability to biological agents of wood and wood-based materials;
NEN-EN 13501-1:2007+A1:2009	Fire classification of construction products and building elements - Part 1: Classification using data from reaction to fire tests;
NEN 5096:2012/A12015	Burglary resistance - Façade elements with doors, windows, shutters and fixed infillings - Requirements, classification and test methods;
SKH Publication 98-08: 2015	Burglary resistant wooden façade elements;
SKH-Publication 06-02:2011	Assessment of the closedness of a paint film on timber.

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Appendix 1: Maximum size of FINTE windows

Tilt and turn windows

Raamhout-afmeting	Raambreedte [mm]	Windstuwdruk [kN/m ²]													
		0,48	0,60	0,70	0,80	0,90	1,00	1,20	1,40	1,60	1,80	2,00	2,20	2,40	2,65
opdek 56 x 90 mm glasgewicht 25 kg/m ²	400	1.460	1.460	1.460	1.460	1.460	1.460	1.460	1.460	1.460	1.460	1.460	1.460	1.460	1.460
	500	1.460	1.460	1.460	1.460	1.460	1.460	1.460	1.460	1.460	1.460	1.460	1.460	1.460	1.460
	600	1.460	1.460	1.460	1.460	1.460	1.460	1.460	1.460	1.460	1.460	1.460	1.460	1.460	1.460
	700	1.460	1.460	1.460	1.460	1.460	1.460	1.460	1.460	1.460	1.460	1.460	1.460	1.460	1.410
	800	1.460	1.460	1.460	1.460	1.460	1.460	1.460	1.460	1.460	1.460	1.390	1.310	1.250	-
	900	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	1000	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	1100	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	1200	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	1300	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	1400	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Raamhout-afmeting	Raambreedte [mm]	Windstuwdruk [kN/m ²]													
		0,48	0,60	0,70	0,80	0,90	1,00	1,20	1,40	1,60	1,80	2,00	2,20	2,40	2,65
opdek 56 x 90 mm glasgewicht 40 kg/m ²	400	1.220	1.220	1.220	1.220	1.220	1.220	1.220	1.220	1.220	1.220	1.220	1.220	1.220	1.220
	500	1.220	1.220	1.220	1.220	1.220	1.220	1.220	1.220	1.220	1.220	1.220	1.220	1.220	1.220
	600	1.220	1.220	1.220	1.220	1.220	1.220	1.220	1.220	1.220	1.220	1.220	1.220	1.220	1.220
	700	1.220	1.220	1.220	1.220	1.220	1.220	1.220	1.220	1.220	1.220	1.220	1.220	1.220	1.220
	800	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	900	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	1000	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	1100	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	1200	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	1300	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	1400	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Raamhout-afmeting	Raambreedte [mm]	Windstuwdruk [kN/m ²]													
		0,48	0,60	0,70	0,80	0,90	1,00	1,20	1,40	1,60	1,80	2,00	2,20	2,40	2,65
opdek 56 x 90 mm glasgewicht 50 kg/m ²	400	1.120	1.120	1.120	1.120	1.120	1.120	1.120	1.120	1.120	1.120	1.120	1.120	1.120	1.120
	500	1.120	1.120	1.120	1.120	1.120	1.120	1.120	1.120	1.120	1.120	1.120	1.120	1.120	1.120
	600	1.120	1.120	1.120	1.120	1.120	1.120	1.120	1.120	1.120	1.120	1.120	1.120	1.120	1.120
	700	1.120	1.120	1.120	1.120	1.120	1.120	1.120	1.120	1.120	1.120	1.120	1.120	1.120	1.120
	800	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	900	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	1000	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	1100	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	1200	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	1300	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	1400	-	-	-	-	-	-	-	-	-	-	-	-	-	-



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Inward turning windows

Raamhout-afmeting	Raambreedte	Windstuwdruk													
	[mm]	[kN/m ²]													
		0,48	0,60	0,70	0,80	0,90	1,00	1,20	1,40	1,60	1,80	2,00	2,20	2,40	2,65
opdek 56 x 90 mm glasgewicht 25 kg/m ²	400	1.460	1.460	1.460	1.460	1.460	1.460	1.460	1.460	1.460	1.460	1.460	1.460	1.460	1.460
	500	1.460	1.460	1.460	1.460	1.460	1.460	1.460	1.460	1.460	1.460	1.460	1.460	1.460	1.460
	600	1.460	1.460	1.460	1.460	1.460	1.460	1.460	1.460	1.460	1.460	1.460	1.460	1.460	1.460
	700	1.460	1.460	1.460	1.460	1.460	1.460	1.460	1.460	1.460	1.460	1.460	1.460	1.460	1.460
	800	1.460	1.460	1.460	1.460	1.460	1.460	1.460	1.460	1.460	1.460	1.440	1.350	1.280	-
	900	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	1000	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	1100	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	1200	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	1300	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	1400	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Raamhout-afmeting	Raambreedte	Windstuwdruk													
	[mm]	[kN/m²]													
		0,48	0,60	0,70	0,80	0,90	1,00	1,20	1,40	1,60	1,80	2,00	2,20	2,40	2,65
opdek 56 x 90 mm glasgewicht 40 kg/m²	400	1.220	1.220	1.220	1.220	1.220	1.220	1.220	1.220	1.220	1.220	1.220	1.220	1.220	1.220
	500	1.220	1.220	1.220	1.220	1.220	1.220	1.220	1.220	1.220	1.220	1.220	1.220	1.220	1.220
	600	1.220	1.220	1.220	1.220	1.220	1.220	1.220	1.220	1.220	1.220	1.220	1.220	1.220	1.220
	700	1.220	1.220	1.220	1.220	1.220	1.220	1.220	1.220	1.220	1.220	1.220	1.220	1.220	1.220
	800	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	900	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	1000	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	1100	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	1200	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	1300	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	1400	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Raamhout-afmeting	Raambreedte	Windstuwdruk													
	[mm]	[kN/m ²]													
		0,48	0,60	0,70	0,80	0,90	1,00	1,20	1,40	1,60	1,80	2,00	2,20	2,40	2,65
opdek 56 x 90 mm glasgewicht 50 kg/m ²	400	1.120	1.120	1.120	1.120	1.120	1.120	1.120	1.120	1.120	1.120	1.120	1.120	1.120	1.120
	500	1.120	1.120	1.120	1.120	1.120	1.120	1.120	1.120	1.120	1.120	1.120	1.120	1.120	1.120
	600	1.120	1.120	1.120	1.120	1.120	1.120	1.120	1.120	1.120	1.120	1.120	1.120	1.120	1.120
	700	1.120	1.120	1.120	1.120	1.120	1.120	1.120	1.120	1.120	1.120	1.120	1.120	1.120	1.120
	800	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	900	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	1000	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	1100	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	1200	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	1300	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	1400	-	-	-	-	-	-	-	-	-	-	-	-	-	-



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Tilt windows

Raamhout-afmeting	Raambreedte	Windstuwdruk													
	[mm]	[kN/m ²]													
		0,48	0,60	0,70	0,80	0,90	1,00	1,20	1,40	1,60	1,80	2,00	2,20	2,40	2,65
opdek 56 x 90 mm glasgewicht 25 kg/m ²	400	2.600	2.600	2.600	2.600	2.600	2.600	2.600	2.600	2.600	2.470	2.350	2.240	2.140	2.040
	500	2.600	2.600	2.600	2.600	2.600	2.600	2.600	2.510	2.350	2.210	2.100	2.000	1.910	1.820
	600	2.600	2.600	2.600	2.600	2.600	2.600	2.470	2.290	2.140	2.020	1.910	1.820	1.750	1.660
	700	2.600	2.600	2.600	2.600	2.600	2.460	2.230	2.050	1.890	1.770	1.660	1.570	1.490	1.410
	800	2.600	2.600	2.560	2.370	2.220	2.090	1.870	1.710	1.580	1.470	1.390	1.310	1.250	1.190
	900	2.600	2.400	2.190	2.030	1.890	1.780	1.600	1.460	1.360	1.280	1.210	1.160	1.110	1.060
	1000	2.380	2.080	1.900	1.760	1.650	1.550	1.410	1.310	1.220	1.150	1.080	1.050	1.030	980
	1100	2.090	1.840	1.690	1.570	1.480	1.410	1.290	1.180	1.130	1.080	1.020	-	-	-
	1200	1.870	1.660	1.540	1.450	1.360	1.280	1.220	1.110	-	-	-	-	-	-
	1300	1.720	1.550	1.410	1.350	1.300	1.220	-	-	-	-	-	-	-	-
	1400	1.610	1.450	1.360	-	-	-	-	-	-	-	-	-	-	-

Raamhout-afmeting	Raambreedte	Windstuwdruk													
	[mm]	[kN/m ²]													
		0,48	0,60	0,70	0,80	0,90	1,00	1,20	1,40	1,60	1,80	2,00	2,20	2,40	2,65
opdek 56 x 90 mm glasgewicht 40 kg/m ²	400	2.600	2.600	2.600	2.600	2.600	2.600	2.600	2.600	2.600	2.470	2.350	2.240	2.140	2.040
	500	2.600	2.600	2.600	2.600	2.600	2.600	2.600	2.510	2.350	2.210	2.100	2.000	1.910	1.820
	600	2.600	2.600	2.600	2.600	2.600	2.600	2.470	2.290	2.140	2.020	1.910	1.820	1.750	1.660
	700	2.600	2.600	2.600	2.600	2.600	2.460	2.230	2.050	1.890	1.770	1.660	1.570	1.490	1.410
	800	2.600	2.600	2.560	2.370	2.220	2.090	1.870	1.710	1.580	1.470	1.390	1.310	1.250	1.190
	900	2.600	2.400	2.190	2.030	1.890	1.780	1.600	1.460	1.360	1.280	1.210	1.160	1.110	1.060
	1000	2.380	2.080	1.900	1.760	1.650	1.550	1.410	1.310	1.220	1.150	1.080	1.050	1.030	980
	1100	2.090	1.840	1.690	1.570	1.480	1.410	1.290	1.180	1.130	1.080	1.020	-	-	-
	1200	1.870	1.660	1.540	1.450	1.360	1.280	1.220	1.110	-	-	-	-	-	-
	1300	1.720	1.550	1.410	1.350	1.300	1.220	-	-	-	-	-	-	-	-
	1400	1.610	1.450	1.360	-	-	-	-	-	-	-	-	-	-	-

Raamhout-afmeting	Raambreedte	Windstuwdruk													
	[mm]	[kN/m²]													
		0,48	0,60	0,70	0,80	0,90	1,00	1,20	1,40	1,60	1,80	2,00	2,20	2,40	2,65
opdek 56 x 90 mm glasgewicht 50 kg/m²	400	2.600	2.600	2.600	2.600	2.600	2.600	2.600	2.600	2.600	2.470	2.350	2.240	2.140	2.040
	500	2.600	2.600	2.600	2.600	2.600	2.600	2.600	2.510	2.350	2.210	2.100	2.000	1.910	1.820
	600	2.600	2.600	2.600	2.600	2.600	2.600	2.470	2.290	2.140	2.020	1.910	1.820	1.750	1.660
	700	2.600	2.600	2.600	2.600	2.600	2.460	2.230	2.050	1.890	1.770	1.660	1.570	1.490	1.410
	800	2.600	2.600	2.560	2.370	2.220	2.090	1.870	1.710	1.580	1.470	1.390	1.310	1.250	1.190
	900	2.600	2.400	2.190	2.030	1.890	1.780	1.600	1.460	1.360	1.280	1.210	1.160	1.110	1.060
	1000	2.380	2.080	1.900	1.760	1.650	1.550	1.410	1.310	1.220	1.150	1.080	1.050	1.030	980
	1100	2.090	1.840	1.690	1.570	1.480	1.410	1.290	1.180	1.130	1.080	1.020	-	-	-
	1200	1.870	1.660	1.540	1.450	1.360	1.280	1.220	1.110	-	-	-	-	-	-
	1300	1.720	1.550	1.410	1.350	1.300	1.220	-	-	-	-	-	-	-	-
	1400	1.610	1.450	1.360	-	-	-	-	-	-	-	-	-	-	-

