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STOMIX, spol. s r. o.
790 65 Skorošice 197, Czech Republic

05

STX.THERM® BETA

01-002

Declaration of Performance No.: 01-002-06 (Annex)

External thermal insulation for masonry or concrete walls

System composition: see Declaration of performance, table 1

ETICS Reaction to fire: see Declaration of Performance

Resistance to water ingress: NPD

Water absorption: see Declaration of Performance

Resistance to mechanical damage:
see Declaration of Performance

Water vapor permeability: see Declaration of Performance

Hazardous substances: does not contain hazardous substances

Fixing strength: see Declaration of Performance

Base coat adhesion to insulation: see Declaration of Performance

Bonding of the adhesive to the substrate / insulation product:
see Declaration of Performance

Resistance to wind load: see Declaration of Performance

Thermal resistance ETICS: see Declaration of Performance

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	Declaration of Performance No. 01-002-06 trade name: STX.THERM® BETA unique identification code: 01-002
Intended use	External thermal insulation to masonry or concrete walls
Manufacturer	STOMIX, spol. s r.o., 790 65 Skorošice 197, Czech Republic
Technical specifications	ETA-05/0173 issued by TZÚS, s.p. NB 1020, 22/06/2016
Certificate no.	1020 - CPR - 060041332

Declared performance
Valid only for system composition according to table 1

Basic characteristics	Performance	Harmonized technical specifications	Assessment system	Notified body
Reaction to fire	See table 2 for the variants	ETAG 004 used as EAD	1	PAVUS, a.s. NB 1391
Resistance to water ingress	conforms	ETAG 004 used as EAD	2+	TZUS, s. p. NB 1020
Water absorption	See table 3 for the variants	ETAG 004 used as EAD	2+	
Resistance to mechanical damage	See table 4	ETAG 004 used as EAD	2+	
Water vapor permeability	See table 5	ETAG 004 used as EAD	2+	
Hazardous substances	Does not contain hazardous substances	ETAG 004 used as EAD	-	
Fixing strength (lateral shift)	Not required (unlimited ETICS length dimensions)	ETAG 004 used as EAD	2+	
Base coat adhesion to the insulation	≥ 0,08 MPa	ETAG 004 used as EAD	2+	
Bonding of the adhesive to the substrate / insulation	conforms	ETAG 004 used as EAD	2+	
Resistance to wind load	See table 6a	ETAG 004 used as EAD	2+	

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Thermal resistance	Thickness of thermal insulation: at least 50 mm for lamellas and at least 60 mm for boards, for declared coefficient of thermal conductivity (λ_D) see point 1.1 and 2.1 table 1, for point thermal transmittance (χ) see point 2.3 table 1	ETAG 004 used as EAD	2+	

Table 1: ETICS Components

The method of attachment	Components	Other data	Technical specification / description	Consumption [kg/m^2]	Thickness [mm]
1. fully bonded ETICS with supplementary mechanical fixings	**1.1 Insulation product** mineral wool MW TR80 – lamella (parameters according ETA)				
	MW - lamella (standard thermal conductivity) code acc. to EN 13162	declared value of thermal conductivity coefficient λ_D = 0,041 W/mk Reaction to fire A1	EN 13162	-	50 - 400
	1.2 Adhesives				
	ALFAFIX® S2	Bonded area 100 %	cement based product	4,0 - 5,0 (dry mix)	-
	ALFAFIX® S1	Bonded area 100 %	cement based product	4,0 - 5,0 (dry mix)	-
	ALFAFIX® S11	Bonded area 100 %	cement based product	4,0 - 5,0 (dry mix)	-
	ALFAFIX® S101	Bonded area 100 %	cement based product	4,0 - 5,0 (dry mix)	-

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2. ETICS mechanically fixed with dowels and supplementary adhesive	**2.1 Insulation product** mineral wool MW TR10 or TR15 – board (parameters according ETA)				
	MW - board (type with standard thermal conductivity) code according to EN 13162	declared value of thermal conductivity coefficient λ_D = 0,036 W/mk Reaction to fire A1	EN 13162	-	60 - 400
	2.2 Adhesives				
	ALFAFIX® S2	bonded area at least 40 %	cement based product	2.1 – 5.0 (dry mix)	2 - 20
	ALFAFIX® S1	bonded area at least 40 %	cement based product	2.1 – 5.0 (dry mix)	
	ALFAFIX® S11	bonded area at least 40 %	cement based product	2.1 – 5.0 (dry mix)	
	ALFAFIX® S101	bonded area at least 40 %	cement based product	2.1 – 5.0 (dry mix)	
	2.3 Dowels to fix insulation boards				
	BRAVOLL® PTH-KZ 60/8 plastic nailed-in dowel	point thermal transmittance: 0.002 W/K Plate stiffness: 0,7 kN/mm Category of use: A,B,C,D	ETAG 014 ETA 05/0055	-	-
	BRAVOLL® PTH-S plastic screwed-in dowel	point thermal transmittance: 0.002 W/K Plate stiffness: 0.9 kN/mm Category of use: A,B,C,D,E	ETAG 014 ETA 08/0267	-	-
	BRAVOLL® PTH-EX plastic nailed-in dowel	point thermal transmittance: 0.001 W/K Plate stiffness: 0.6 kN/mm Category of use: A,B,C,D	ETAG 014 ETA 13/0951	-	-
	ejotherm® STR U 2G plastic screwed-in dowel	point thermal transmittance: 0.002 W/K Plate stiffness: 0.6 kN/mm Category of use: A,B,C,D,E	ETAG 014 ETA 04/0023	-	-

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	ejotherm® H1 eco plastic nailed-in dowel	point thermal transmittance: 0.001 W/K Plate stiffness: 0.6 kN/mm Category of use: A,B,C	ETAG 014 ETA 11/0192	-	-
	WKTHERM S plastic screwed-in dowel	point thermal transmittance: 0.002 W/K Plate stiffness: 0.6 kN/mm Category of use: A,B,C,D,E	ETAG 014 ETA 13/0724	-	-
	WKTHERM Ø 8 plastic nailed-in dowel	point thermal transmittance: 0.002 W/K Plate stiffness: 0.6 kN/mm Category of use: A,B,C	ETAG 014 ETA 11/0232	-	-
	LMX Ø 8 plastic nailed-in dowel	point thermal transmittance: 0.003 W/K Plate stiffness: 0.5 kN/mm Category of use: A,B,C,D,E	ETAG 014 ETA 09/0001		
	LFM plastic nailed-in dowel	point thermal transmittance: NPD Plate stiffness: 0.4 kN/mm Category of use: A,B,C,D,E	ETAG 014 ETA 06/0080		
	eco-drive W plastic screwed-in dowel	point thermal transmittance: 0.002 W/K Plate stiffness: 0.6 kN/mm Category of use: A,B,C,D,E	ETAG 014 ETA 13/0107		
	fischer® TERMOZ CS 8 plastic screwed-in dowel	point thermal transmittance: 0.002 W/K Plate stiffness: 0.6 kN/mm Category of use: A,B,C,D,E	ETAG 014 ETA 14/0372	-	-
	fischer® TERMOZ CN 8 plastic nailed-in dowel	point thermal transmittance: 0.001 W/K Plate stiffness: 0.4 kN/mm Category of use: A,B,C,D	ETAG 014 ETA 09/0394	-	-

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	fischer® TERMOFIX CF 8 plastic nailed-in dowel	point thermal transmittance: 0.002 W/K Plate stiffness: 0.5 kN/mm Category of use: A,B,C	ETAG 014 ETA 07/0287	-	-
	Koelner TFIX 8 M plastic nailed-in dowel	point thermal transmittance: 0.002 W/K Plate stiffness: 1.0 kN/mm Category of use: A,B,C	ETAG 014 ETA 07/0336	-	-
	Koelner TFIX 8 S plastic screwed-in dowel	point thermal transmittance: 0.002 W/K Plate stiffness: 0.6 kN/mm Category of use: A,B,C,D.E	ETAG 014 ETA 11/0144		
	Koelner TFIX 8 ST plastic screwed-in dowel	point thermal transmittance: 0.002 W/K Plate stiffness: 0.6 kN/mm Category of use: A,B,C,D,E	ETAG 014 ETA 11/0144	-	-

	In addition to the above mentioned, there may be used in the system other types of dowels with ETA according to ETAG 014, on condition that they meet the following requirements:	**Demands**			
		Nail	metal		
		Plate diameter	≥ 60 mm		
		Plate stiffness	Surface assembly:	≥ 0.4 kN/mm	
			Embedded assembly:	≥ 0.6 kN/mm	
		Rupture force of dowel's plate	≥ Higher of figures the R_{panel} and R_{joint} in the relevant table 6a of this declaration		

	Components	**Other data**	**Technical specification / description**	**Consumption [kg/m²]**	**Thickness [mm]**
3. Surface treatment	**3.1 Levelling substance for base coat**				
	ALFAFIX® S1	-	cement based product	Approx. 5.2 (dry mix)	Approx. 3
	ALFAFIX® S101	-	cement based product	Approx. 5.2 (dry mix)	Approx. 3

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3.2 Reinforcement of the base coat					
VT1 - R131 A101 - R131 A102 - SSA-1363-160 - 122	Alkali resistant	Glass mesh	-	-	
VT1/1 - R117 A101 - SSA-1363-145	Alkali resistant	Glass mesh	-	-	
R330 - R267 A101 reinforced fabric used to some parts of ETICS only (supplement to VT1 and VT1/1)	Alkali resistant	Glass mesh	-	-	
3.3 Key coat					
HC-4	for BETADEKOR® A-BETADEKOR® SA-	-	0.20 – 0.24	-	
HC-5	for BETADEKOR® SI-BETADEKOR® V-	-	0.20 – 0.24	-	
3.4 Finishing coat					
BETADEKOR® AF BETADEKOR® AD	Maximal grain size 1.5-2.0-2.5-3.0 mm	Binder: acrylic copolymer	2.4 – 4.0	Acc. to grain size	
BETADEKOR® SIF BETADEKOR® SID	Maximal grain size 1.5-2.0-2.5-3.0 mm	Binder: silicone resin, acrylic copolymer	2.4 – 4.0		
BETADEKOR® VF BETADEKOR® VD	Maximal grain size 1.5-2.0-2.5-3.0 mm	Binder: silicate binder modified by silicone resin	2.4 – 4.0		
BETADEKOR® SAF BETADEKOR® SAD	Maximal grain size 1.5-2.0-2.5-3.0 mm	Binder: acrylate copolymer modified by silicone emulsion	2.4 – 4.0		

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Table 2: ETICS Reaction to fire

System components	Content of organic substances / combustion heat	Content of flame retardants	European Class acc.to EN 13501-1
Adhesives	max. 3.24 % / max. 0.09 MJ/kg	without fire retardants	A2 - s1, d0
MW boards / lamellas	The amount of guaranteeing European Class A1 according to EN 13501-1	-	
Dowels	-	-	
Material composed of a base coat	Max. 1,81 % / max. -0.29 MJ/kg	without fire retardants	
Glass mesh	Max. 8.17 MJ/kg	without fire retardants	
Key coat	Max. 26 % / Max. 6.26 MJ/kg	without fire retardants	
Finishing coat	7.96 % / max. 2.13 MJ/kg	without fire retardants	

Table 3: Water absorption (ETAG 004 - Article 5.1.3.1)

		Absorption after 24 hours	
		< 0,5 kg/m^2	≥ 0,5 kg/m^2
Base coat ALFAFIX® S1 or ALFAFIX® S101 with variant of reinforcement + finishing coats with relevant key coats:	BETADEKOR® A-	X	-
	BETADEKOR® SI-	X	-
	BETADEKOR® V-	X	-
	BETADEKOR® SA-	X	-

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Table 4: Resistance to mechanical damage (ETAG 004 - Article 5.1.3.3)

<table>
<tr><th colspan="4">MW board TR10</th></tr>
<tr><th>Base layer ALFAFIX® S1 or ALFAFIX® S101 with variant of reinforcement + finishing coats with relevant key coats:</th><th>1x glass mesh VT1 or VT1/1</th><th>2x glass mesh VT1 or VT1/1</th><th>1x glass mesh VT1 or VT1/1 + reinforced mesh R330</th></tr>
<tr><td>BETADEKOR® A- 15, 20, 25, 30</td><td rowspan="3">Category II</td><td colspan="2">Category I</td></tr>
<tr><td>BETADEKOR® SI- 15, 20, 25, 30</td><td rowspan="2">has not been reviewed</td><td rowspan="2">Category I</td></tr>
<tr><td>BETADEKOR® V- 15, 20, 25, 30</td></tr>
<tr><td>BETADEKOR® V- 30
- only in combination with ALFAFIX® S101</td><td>Category I</td></tr>
<tr><td>BETADEKOR® SA- 15, 20, 25, 30</td><td>Category II</td><td>Category II</td><td>has not been reviewed</td></tr>
<tr><th colspan="4">MW lamella TR80 or MW board TR15</th></tr>
<tr><th>Base layer ALFAFIX® S1 or ALFAFIX® S101 with variant of reinforcement + finishing coats with relevant key coats:</th><th>1x glass mesh VT1 or VT1/1</th><th>2x glass mesh VT1 or VT1/1</th><th>1x glass mesh VT1 or VT1/1 + reinforced mesh R330</th></tr>
<tr><td>BETADEKOR® A- 15, 20, 25, 30</td><td rowspan="4">Category II</td><td colspan="2">Category I</td></tr>
<tr><td>BETADEKOR® SI- 15, 20, 25, 30</td><td rowspan="2">has not been reviewed</td><td>Category I</td></tr>
<tr><td>BETADEKOR® V- 15, 20, 25, 30</td><td>Category I</td></tr>
<tr><td>BETADEKOR® SA- 15, 20, 25, 30</td><td>Category II</td><td>has not been reviewed</td></tr>
</table>

Table 5: Water vapour permeability of the ETICS outer layer (ETAG 004 - Article 5.1.3.4)

Base layer ALFAFIX® S1 with variant of reinforcement + finishing coats with relevant key coats:	Equivalent air thickness S_d
BETADEKOR® A- 15	≤ 0.37 m
BETADEKOR® A- 20	≤ 0.39 m
BETADEKOR® A- 25, 30	≤ 0.26 m
BETADEKOR® SI- 15	≤ 0.16 m
BETADEKOR® SI- 20	≤ 0.18 m
BETADEKOR® SI- 25, 30	≤ 0.20 m
BETADEKOR® V- 15	≤ 0.09 m
BETADEKOR® V- 20	≤ 0.11 m
BETADEKOR® V- 25, 30	≤ 0.12 m
BETADEKOR® SA- 15	≤ 0.19 m
BETADEKOR® SA- 20	≤ 0.19 m
BETADEKOR® SA- 25, 30	≤ 0.21 m

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Base layer ALFAFIX® S101 with variant of reinforcement + finishing coats with relevant key coats:	Equivalent air thickness S_d
BETADEKOR® A- 15	≤ 0.25 m
BETADEKOR® A- 20	≤ 0.25 m
BETADEKOR® A- 25, 30	≤ 0.28 m
BETADEKOR® SI- 15	≤ 0.14 m
BETADEKOR® SI- 20	≤ 0.14 m
BETADEKOR® SI- 25, 30	≤ 0.16 m
BETADEKOR® V- 15	≤ 0.10 m
BETADEKOR® V- 20	≤ 0.12 m
BETADEKOR® V- 25, 30	≤ 0.13 m
BETADEKOR® SA- 15	≤ 0.29 m
BETADEKOR® SA- 20	≤ 0.20 m
BETADEKOR® SA- 25, 30	≤ 0.21 m

Table 6a: Resistance to wind load (ETAG 004 - Article 5.1.4.3)

- **Insulation material - MW board (TR15)**

Dowel description	Trade name		**see Annex 6b**		
	Assembly method		Surface assembly		Countersunk assembly
	Plate diameter (mm)		60 or more		
MW board characteristics (TR 15)	Thickness (mm)		≥ 50	≥ 100	
	Tensile strength (kPa)		≥ 15		
Maximum load	Dowels placed at the body of the insulation product	R_{panel} (dry)	Minimal value: **0.44 kN** Medium value: **0.49 kN**	Minimal value: **0.70 kN** Medium value: **0.75 kN**	Minimal value: **0.44 kN** Medium value: **0.49 kN**
		R_{panel} (wet)	Minimal value: **0.32 kN** Medium value: **0.34 kN**	has not been reviewed	Minimal value: **0.32 kN** Medium value: **0.34 kN**
	Dowels placed at joints of the insulation product	R_{joint} (dry)	Minimal value: **0.41 kN** Medium value: **0.43 kN**	Minimal value: **0.47 kN** Medium value: **0.57 kN**	Minimal value: **0.41 kN** Medium value: **0.43 kN**
		R_{joint} (wet)	Minimal value: **0.24 kN** Medium value: **0.26 kN**	has not been reviewed	Minimal value: **0.24 kN** Medium value: **0.26 kN**

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- **Insulation material - MW double layer board Frontrock MAX E (TR10)**

Dowel description	Trade name		**see Annex 6b**
	Assembly method		Surface assembly
	Plate diameter (mm)		60 or more
MW board characteristics Frontrock MAX E	Thickness (mm)		≥ 100
	Tensile strength (kPa)		≥ 10
Maximum load	Dowels placed at the body of the insulation product	R_{panel} (dry)	Minimal value: **0.60 kN** Medium value: **0.64 kN**
	Dowels placed at joints of the insulation product	R_{joint} (dry)	Minimal value: **0.48 kN** Medium value: **0.53 kN**

- **Insulation material - MW double layer board Frontrock MAX E (TR10)**

Dowel description	Trade name		**see Annex 6b**	**ejotherm STR U 2G + additional plate VT 2 G**	**eco-drive W**
	Assembly method		Countersunk assembly		Special assembly
	Plate diameter (mm)		60	112,5	110
MW board characteristics Frontrock MAX E	Thickness (mm)		≥ 100		
	Tensile strength (kPa)		≥ 10		
Maximum load	Dowels placed at the body of the insulation product	R_{panel} (dry)	Minimal value: **0.31 kN** Medium value: **0.36 kN**	Minimal value: **0.80 kN** Medium value: **0.84 kN**	Minimal value: **1.24 kN** Medium value: **1.29 kN**
	Dowels placed at joints of the insulation product	R_{joint} (dry)	Minimal value: **0.33 kN** Medium value: **0.37 kN**	Minimal value: **0.82 kN** Medium value: **0.86 kN**	Minimal value: **0.79 kN** Medium value: **0.92 kN**

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- **Insulation material - MW FKD S / FKD S Thermal (TR10)**

Dowel description	Trade name		**see Annex 6b**	**see Annex 6b**	**ejotherm STR U 2G + additional plate VT 2 G**	**eco-drive W**
	Assembly method		Surface assembly	Countersunk assembly		Special assembly
	Plate diameter (mm)		60 or more		112.5	110
MW board characteristics FKD S	Thickness (mm)		≥ 100	≥ 150	≥ 100	
	Tensile strength (kPa)		≥ 10			
Maximum load	Dowels placed at the body of the insulation product	R_{panel} (dry)	Minimal value: **0,39 kN** Medium value: **0,41 kN**	Minimal value: **0,39 kN** Medium value: **0,41 kN**	Minimal value: **0,77 kN** Medium value: **0,91 kN**	Minimal value: **0,67 kN** Medium value: **0,70 kN**
	Dowels placed at joints of the insulation product	R_{joint} (dry)	Minimal value: **0.37 kN** Medium value: **0.40 kN**	Minimal value: **0.37 kN** Medium value: **0.40 kN**	Minimal value: **0.60 kN** Medium value: **0.70 kN**	Minimal value: **0.56 kN** Medium value: **0.57 kN**

- **Insulation material - MW TF PROFI (TR10)**

Dowel description	Trade name		**see Annex 6b**	**fischer termoz CN 8**	**fisher termoz CN 8 + additional plate DT 110N**
	Assembly method		Surface assembly		
	Plate diameter (mm)		60 or more		110
MW board characteristics TF PROFI	Thickness (mm)		≥ 100		
	Tensile strength (kPa)		≥ 10		
Maximum load	Dowels placed at the body of the insulation product	R_{panel} (dry)	Minimal value: **0.35 kN** Medium value: **0.41 kN**	Minimal value: **0.43 kN** Medium value: **0.44 kN**	Minimal value: **0.54 kN** Medium value: **0.60 kN**
	Dowels placed at joints of the insulation product	R_{joint} (dry)	Minimal value: **0.29 kN** Medium value: **0.32 kN**	Minimal value: **0.29 kN** Medium value: **0.36 kN**	Minimal value: **0.35 kN** Medium value: **0.39 kN**

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- **Insulation material - MW TF PROFI (TR10)**

Dowel description	Trade name		**ejotherm STR U 2G + additional plate VT 2 G**	**see Annex 6b**	**eco-drive W**
	Assembly method		Countersunk assembly		Special assembly
	Plate diameter (mm)		112.5	60 or more	110
MW board characteristics TF PROFI	Thickness (mm)		≥ 100	≥ 150	≥ 100
	Tensile strength (kPa)		≥ 10		
Maximum load	Dowels placed at the body of the insulation product	R_{panel} (dry)	Minimal value: **0.91 kN** Medium value: **1.07 kN**	Minimal value: **0.35 kN** Medium value: **0.41 kN**	Minimal value: **0.61 kN** Medium value: **0.63 kN**
	Dowels placed at joints of the insulation product	R_{joint} (dry)	Minimal value: **0.67 kN** Medium value: **0.74 kN**	Minimal value: **0.29 kN** Medium value: **0.32 kN**	Minimal value: **0.45 kN** Medium value: **0.49 kN**

- **Insulation material - MW board Paroc Linio 10 (TR10)**

Dowel description	Trade name		**see Annex 6b plate stiffness ≥ 06 kN/mm**	
	Assembly method		Surface assembly	Countersunk assembly
	Plate diameter (mm)		60 or more	
MW board characteristics PAROC Linio 10	Thickness (mm)		≥ 100	
	Tensile strength (kPa)		≥ 10	
Maximum load	Dowels placed at the body of the insulation product	R_{panel} (dry)	Minimal value: **0.33 kN** Medium value: **0.36 kN**	
	Dowels placed at joints of the insulation product	R_{joint} (dry)	Minimal value: **0.24 kN** Medium value: **0.28 kN**	

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- **Insulation material - MW board ISOPANEL (TR10)**

Dowel description	Trade name		**see Annex 6b**	
	Assembly method		Surface assembly	Countersunk assembly
	Plate diameter (mm)		60 or more	
MW board characteristics ISOPANEL	Thickness (mm)		≥ 50	≥ 100
	Tensile strength (kPa)		≥ 10	
Maximum load	Dowels placed at the body of the insulation product	R_{panel} (dry)	Minimal value: **0.43 kN** Medium value: **0.45 kN**	
		R_{panel} (wet)	Minimal value: **0.40 kN** Medium value: **0.42 kN**	
	Dowels placed at the body of the insulation product	R_{joint} (dry)	Minimal value: **0.40 kN** Medium value: **0.42 kN**	
		R_{joint} (wet)	Minimal value: **0.38 kN** Medium value: **0.39 kN**	

Table 6b: Resistance to wind load – characteristic resistance N_{Rk} to tension loads

Trade name	Plate diameter (mm)	characteristic resistance N_{Rk} to tension loads	Plate stiffness (kN/mm)	Load resistance of dowel plate (kN)
Surface assembly				
BRAVOLL PTH-KZ 60/8	60	see ETA 05/0055	0.70	2.10
BRAVOLL PTH-S	60	see ETA 08/0267	0.90	2.60
BRAVOLL PTH-EX	60	see ETA 13/0951	0.60	1.40
ejotherm STR U 2G	60	see ETA 04/0023	0.60	2.08
ejotherm H1 eco	60	see ETA 11/0192	0.60	1.40
WKTHERM S	60	see ETA 13/0724	0.60	4.30
WKTHERM Ø 8	60	see ETA 11/0232	0.60	4.30
LMX Ø 8	60	see ETA 09/0001	0.50	1.53
fischer termoz CS8	60	see ETA 14/0372	0.60	1.70
fischer termoz CN 8	60	see ETA 09/0394	0.40	1.60
fischer TERMOFIX CF 8	60	see ETA 07/0287	0.50	1.65
Koelner TFIX 8 M	60	see ETA 07/0336	1.00	1.75
Koelner TFIX 8 S	60	see ETA 11/0144	0.60	2.04
Embedded assembly				
BRAVOLL PTH-S	60	see ETA 08/0267	0.90	2.60
ejotherm STR U 2G	60	see ETA 04/0023	0.60	2.08
fischer termoz CS8	60	see ETA 14/0372	0.60	1.70
Koelner TFIX 8 ST	60	see ETA 11/0144	0.60	2.04
Special assembly				
eco-drive W	60	see ETA 13/0107	0.60	2.80

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Table 7: Airborne sound insulation

Insulant MW thickness 100 mm		
$\Delta R_w = 0$ dB	$\Delta R_w + C = -2$ dB	$\Delta R_w + C_{tr} = -3$ dB
Insulant MW thickness 200 mm		
$\Delta R_w = +2$ dB	$\Delta R_w + C = 0$ dB	$\Delta R_w + C_{tr} = -1$ dB

Qualities of the product referred to in the table 1 are consistent with the qualities mentioned above.
This Declaration of Performance is issued under the sole responsibility of the manufacturer referred to in the Declaration.
Signed for and on behalf of the manufacturer:

Skorošice, 02.08.2016

Ing. David Čvanda
Development & Production Manager

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