

	Declaration of Performance (DOP) No. 91290 001 DOP 2013-06-24							
1.	Unique identification code of the product-type:							
	Multi-wall metal chimney system type Morsø Systemkorsten according to EN 1856-1:2009							
2.	Type, batch or serial number or any other element allowing identification of the construction product as required under Article 11(4):							
	Double wall chimney system type Morsø Systemkorsten ¹⁾							
	Model 1DN (80- 300)T400 - N1 - D - V3 - L50060 - G25Model 2DN (80- 300)T400 - N1 - W - V2 - L50060 - O25Model 3DN (80- 300)T400 - N1 - D - V3 - L50060 - G50Model 4DN (80- 300)T400 - N1 - W - V2 - L50060 - O50 $^{1)}$ Manufacturer product identification Morsø Systemkorsten.							
3.	Intended use or uses of the construction product, in accordance with the applicable harmonised technical specification, as foreseen by the manufacturer:							
	Convey the products of combustion from heating appliances to the outside atmosphere							
4.	 Name, registered trade name or registered trade mark and contact address of the manufacturer as required under Article 11(5): 							
	MORSØ JERNSTØBERI A/S FURVEJ 6 DK-7900 NYKØBING MORS Phone: +45 96 69 19 00 Fax: +45 97 72 21 69 E-Mail: <u>PJH@MORSOE.COM</u> Internet: www.morsoe.com							
5.	5. Where applicable, name and contact address of the authorised representative whose mandate covers the tasks specified in Article 12(2) :							
	not applicable							
6.	 System or systems of assessment and verification of constancy of performance of the construction product as set out in CPR, Annex V: System 2+ and System 4 							
7.	In case of the declaration of performance concerning a construction product for which a European Technical Assessment has been issued: Notified factory production control certification body no. 0036 performed the initial inspection of the manufacturing plant and of factory production control and the continuous surveillance, assessment and evaluation of factory production control and issued the certificate of conformity 0036 CPD 91290 001 of the factory production control.							



8. Erklärte Leistung:

	Essential Characteristics	Performance	Harmonized technical specification
8.1	Compressive strength Chimney sections, fittings and supports	Sections and fittings: Model 1 to 4 DN (80- 300): up to 39 m <u>Supports:</u> n.p.d For further information see the installation instruction Morsø Systemkorsten.	EN 1856-1:2009
8.2	Resistance to fire	(Resistance to fire from inside to outside) Model 1 DN (80- 300): T400 – G25 Model 2 DN (80- 300): T400 – O25 Model 3 DN (80- 300): T400 – G50 Model 4 DN (80- 300): T400 – O50 Tested without fully enclosed and with ventilated floors.	EN 1856-1:2009
8.3	Gas tightness/leakage	Model 1 to 4 DN (80- 300): N1	EN 1856-1:2009
8.4	Flow resistance of	According to EN 13384-1	
	chimney sections, fittings and terminals	component: ζ (Zeta-value) single resistances	
		pipe tee 87°:1,14pipe tee 45°:0,35pipe bend 87°:0,40pipe bend 45°:0,28pipe bend 30°:0,20pipe bend 15°:0,10Terminals: (only for operation in negative pressure)rain cap1,0fin cap type "Hubo": $\leq Ø$ 140 mm 0,1/ $\geq Ø$ 150 mmwind deflector: $\leq Ø$ 140 mm 0,1/ $\geq Ø$ 150 mmhurrican:0,1	EN 1856-1:2009
8.5	Thermal resistance	Model 1 to 4 DN (80- 300): >0,458 m ² K/W tested at 200°C* *The thermal resistance is dependent on the nominal diameters of inner tubes see product information and mounting instruction Morsø Systemkorsten.	EN 1856-1:2009
8.6 8.7	Thermal shock resistance Sootfire resistance Thermal performance under normal operating conditions	Model 1 DN (80- 300): Yes Model 2 DN (80- 300): No ²⁾ Model 3 DN (80- 300): Yes Model 4 DN (80- 300): No ²⁾ ²⁾ Because designated O Model 1 to 4 DN (80- 300): T400	EN 1856-1:2009
8.8	Flexural tensile strength (only for means of connection for chimney sections and fittings)	Model 1 to 4 DN (80- 300): up to 6 m	EN 1856-1:2009
8.9	Non vertical installation	Model 1 to 4 DN (80- 300): Maximum offset between supports 3 m at 90° (Inclined run, maximum distance between two fixations, supports at non vertical installation)	EN 1856-1:2009



8. Erklärte Leistung:

	Essential Characteristics	Performance	Harmonized technical specification					
8.10	Components subject to wind load	Free standing height above last support: Model 1 to 4 DN (80- 180): 3 m Model 1 to 4 DN (200): 1,5 m Maximum spacing between lateral supports: Model 1 to 4 DN (80- 150): 4 m Model 1 to 4 DN (180- 200): 2 m	EN 1856-1:2009					
	Durability:							
8.11	Water and vapour diffusion resistance							
8.12	Condensate penetration resistance	Model 1 DN (80- 300): No Model 2 DN (80- 300): Yes Model 3 DN (80- 300): No Model 4 DN (80- 300): Yes						
8.13	Against corrosion	Model 1 DN (80- 300): V3 Model 2 DN (80- 300): V2 Model 3 DN (80- 300): V3 Model 4 DN (80- 300): V2						
8.14	Freeze thaw resistance	Model 1 to 4 DN (80- 300): Yes						
	9. The performance of the product identified in points 1 and 2 is in conformity with the declared performance in point 8. This declaration of performance is issued under the sole responsibility of the manufacturer identified in point 4.							
	Signed for and on behalf of the manufacturer by:							
	NYKØBING MORS, 24 th June 2013							
	Peter Jessen Hansen CEO							



The exhaust gas system may be cleaned with cleaning devices made of plastic or stainless steel

Product information

Requirements for metal exhaust gas systems part 1 "components for exhaust gas systems" DIN EN 1856-1:2009

Manufacturer's identification:			Fa. MORSØ JERNSTØBERI A/S FURVEJ 6 DK-7900 NYKØBING MORS Phone: +45 96 69 19 00 Fax: +45 97 72 21 69 E-Mail: PJH@MORSOE.COM Internet: www.morsoe.com							
Product designation: (trade name)			Morsø Systemskorsten							
Notified body:			TÜV Industrie Service GmbH TÜV SÜD GRUPPE							GRUPPE
Managing dire	ctor:		Peter Jessen Hansen							
Identification c	of accompanyin	ig docume	entatior	า						
0.1 Morsø - Systemskorsten	metal exhaust gas system	EN 1856-1	T400	N1	D	V3-L50060	G(25)	80	- 300	Multi-layer exhaust gas system, double wall design, soot fire resistant, with 50 mm heat insulation, completely ventilated distance 25 mm to combustible materials, without covering, operation in negative pressure
0.2 Morsø - Systemskorsten	metal exhaust gas system	EN 1856-1	T400	N1	w	V2-L50060	O(25)	80	- 300	Multi-layer exhaust gas system, double wall design, moisture resistant, with 50 mm heat insulation, completely ventilated, distance 25 mm to combustible materials, without covering, operation in negative pressure
0.3 Morsø - Systemskorsten	metal exhaust gas system	EN 1856-1	T400	N1	D	V3-L50060	G(50)	80	- 300	Multi-layer exhaust gas system, double wall design, soot fire resistant, with 50 mm heat insulation, ventilated, insulated ceiling bushing, distance 50 mm to combustible materials, without covering, operation in negative pressure.
0.4 Morsø - Systemskorsten	metal exhaust gas system	EN 1856-1	T400	N1	w	V2-L50060	O(50)	80	- 300	Multi-layer exhaust gas system, double wall design, moisture resistant, with 50 mm heat insulation, ventilated, insulated ceiling bushing, distance 50 mm to combustible materials, without covering, operation in negative pressure.
										EN 1856-1
Product description	n									Section of a multi-layer metal exhaust gas system
Number of standa	rd									essure resistance: ximum load – see installation manual
Temperature class	s <u> </u>								ave	w resistance: rage roughness: 1,0 mm zeta-values according
Pressure class										
Condensate									<u>Thermal resistance:</u> ≥ 0,601 m²K/W	
resistance (W: wet or D: dry)										xural strength: inclined installation: ximum length between two supports: ≤ 3 m at 90°
Corrosion resistar material of exhaus									<u>Ult</u> ≤ 4	<u>imate tensile strength:</u> m
gas pipe									Wi	nd loading: free-standing extension:
Soot fire resistand	e									to Ø180 mm \leq 3 m above last support 00 mm \leq 1,5 m above last support
G: yes / O: no distance (in mm) t combustible mate									up	ximum distance between vertical fixations: to \emptyset 150 mm \leq 4 m
Nominal diameter										30 to Ø200 mm ≤ 2 m eeze-thaw resistance:
(inner tube) in mm	1			_	_				yes	
									Cle	eaning: