



DECLARATION OF PERFORMANCE

Cpr: Dopcpr01

- 1) Unique identification code of the product-type: **Metal Chimney System Dopcpr01**

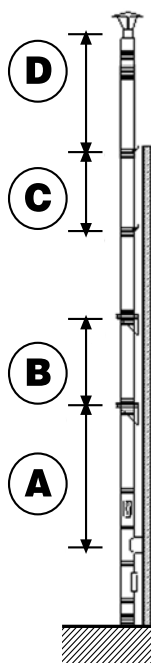
Trade name of the product: **EDW25, DW25, DWC25, Extetic, DW25AL**

- 2) Intended use or uses of the construction product, in accordance with the applicable harmonised technical specification, as foreseen by the manufacturer: Chimney System for convey the products of combustion from heating appliances to the outside atmosphere
- 3) Name and contact address of the manufacturer: **Expo Inox S.p.a.**, Viale Artigianato 6, Borgo San Siro (PV) - Italy
- 4) Name and contact address of the authorised representative: Not applicable
- 5) System or systems of assessment and verification of constancy of performance of the construction product: System 2+
- 6) Technical specification EN 1856-1:2009
- 6a) The notified body KIWA CERMET ITALIA S.p.a, with identification number 0476, performed in accordance of System 2+ 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 of the factory production control
- 7) Declared performance:

(Designation 1)	EN 1856-1	T200 P1 W V2	L50040 O30	for DN 80÷200	for DW25, DWC25, Extetic, DW25AL
(Designation 2)	EN 1856-1	T200 H1 W V2	L50040 O30	for DN 80÷200	for DW25, DWC25, DW25AL
(Designation 1a)	EN 1856-1	T200 P1 W V2	L50050 O30	for DN 250÷300	for DW25, DWC25, Extetic, DW25AL
(Designation 2a)	EN 1856-1	T200 H1 W V2	L50050 O30	for DN 250÷300	for DW25, DWC25, DW25AL
(Designation 3)	EN 1856-1	T200 P1 W V2	L50050 O45	for DN 350÷450	for DW25, DWC25, Extetic, DW25AL
(Designation 4)	EN 1856-1	T200 P1 W V2	L50050 O60	for DN 500÷550	for DW25, DWC25, Extetic, DW25AL
(Designation 5)	EN 1856-1	T600 N1 W V2	L50040 G70	for DN 80÷200	for DW25, DWC25, Extetic, DW25AL
(Designation 5a)	EN 1856-1	T600 N1 W V2	L50050 G70	for DN 200÷300	for DW25, DWC25, Extetic, DW25AL
(Designation 6)	EN 1856-1	T600 N1 W V2	L50050 G105	for DN 350÷450	for DW25, DWC25, Extetic, DW25AL
(Designation 7)	EN 1856-1	T600 N1 W V2	L50050 G140	for DN 500÷550	for DW25, DWC25, Extetic, DW25AL
(Designation 8)	EN 1856-1	T600 N1 W V2	L50060 G140	for DN 550÷600	for DW25, DWC25, Extetic, DW25AL
(Designation 9)	EN 1856-1	T600 N1 W V2	L50060 G280	for DN 600÷800	for DW25, DWC25, Extetic, DW25AL
(Designation 10)	EN 1856-1	T600 N1 W Vm	L20040 G70	for DN 80÷200	for EDW25
(Designation 10a)	EN 1856-1	T600 N1 W Vm	L20050 G70	for DN 250÷300	for EDW25
(Designation 11)	EN 1856-1	T600 N1 W Vm	L20050 G105	for DN 350÷450	for EDW25
(Designation 12)	EN 1856-1	T600 N1 W Vm	L20050 G140	for DN 500÷550	for EDW25
(Designation 13)	EN 1856-1	T600 N1 W Vm	L20060 G140	for DN 550÷600	for EDW25
(Designation 14)	EN 1856-1	T600 N1 W Vm	L20060 G280	for DN 650÷800	for EDW25

ESSENTIAL CHARACTERISTICS

Compressive strength



PERFORMANCE

A: maximum height reachable, using the Tee 90° element with a starting plate as base element
B: maximum height supported by the intermediary plate element with supports pair
C: maximum distance between two wall band
D: maximum height reachable from last wall band

Diameter (mm)	Meters			
	A	B	C	D
80	100	40	4	2
100	85	35	4	2
130	69	18	4	2
150	62	15	4	2
180	53	14	4	2
200	48	13	4	2
250	31	11	4	2
300	22	9	3	2
350	19	8	1	1*
400	17	7	1	1*
450	15	6	1	1*
500	*	5	1	1*
550	*	14	1	1
600	*	13	1	1
650	*	12	1	1
700	*	11	1	1
750	*	10	1	1
800	*	8	1	1

* Use guy wire brackets
These values are valid only in case of standard product, refer to the following table

Diameter	Inlet thickness	Outlet thickness
80	4/10	4/10
100	4/10	4/10
130	4/10	4/10
150	4/10	4/10
180	4/10	4/10
200	4/10	4/10
250	5/10	5/10
300	5/10	5/10
350	5/10	5/10
400	5/10	5/10
450	5/10	5/10
500	5/10	5/10
550	6/10	6/10
600	6/10	6/10
650	6/10	6/10
700	6/10	6/10
750	6/10	6/10
800	6/10	6/10

For further different thickness from table please contact Expo Technical Dept.

HARMONISED TECHNICAL SPECIFICATION

EN 1856-1:2009

Resistance to fire

(Designation 5, 5a, 10) : G70
(Designation 6, 11) : G105
(Designation 7, 8, 12, 13) : G140
(Designation 9, 14) : G280
(Designation 1, 2, 1a, 2a) : O30
(Designation 3) O45, (Designation 4) : O60

EN 1856-1:2009

Gas tightness / leakage

(Designation 1, 1a, 3, 4) : P1
(Designation 5÷14) : N1
(Designation 2, 2a) : H1

EN 1856-1:2009

Value of roughness

1 mm (according to EN 13384-1)

EN 1856-1:2009

Flow resistance of the elements

According to EN 13384-1

EN 1856-1:2009

Thermal resistance

0,35 m²K/W

EN 1856-1:2009

Thermal shock resistance

(Designation 5, 5a, 6, 7, 8, 9, 10, 10a, 11, 12, 13, 14) : G

EN 1856-1:2009

Non vertical installation

Yes - maximum angle 90°

EN 1856-1:2009

Components subject to wind load

Yes - see point D of compressive strength

EN 1856-1:2009

Water and vapour diffusion resistance

W

EN 1856-1:2009

Durability against corrosion

Class V2

EN 1856-1:2009

Class Vm (Designation 9÷14)

Freeze-thaw resistance

Pass

EN 1856-1:2009

Roof passing through module

When the systems EDW25, DW25, DWC25, Extetic, DW25AL is used in combination with the roof passing through module the designation G00 is guaranteed in the roof penetration area. The use of a double-walled system from other suppliers, which has a designation with regard to the distance to combustible materials of less than or equal to 70 mm, is permitted. If you use the roof passing through "Gonfio", Expo Inox guarantees a distance from the combustible material G00.

The performance of the products identified is in conformity with the declared performance. This declaration of performance is issued, in conformity of European standard n. 305/2011, under the sole responsibility of the manufacturer.

(place and date of issue)

Borgo San Siro 01.01.2021

(name and function)





DECLARATION OF PERFORMANCE

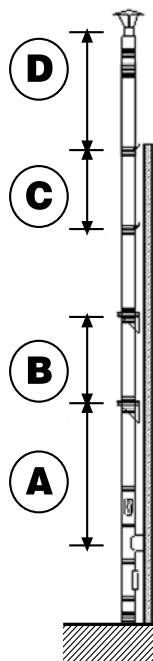
Cpr: Dopcpr02

- 1) Unique identification code of the product-type: **Metal Chimney System Dopcpr02**
Trade name of the product: **SW, ESW, SW BLACK, FEREX PELLET, FEREX LEGNA, SWCLICK, SMALTEX, FERELUX**
- 2) Intended use or uses of the construction product, in accordance with the applicable harmonised technical specification, as foreseen by the manufacturer: Chimney System for convey the products of combustion from heating appliances to the outside atmosphere
- 3) Name and contact address of the manufacturer: **Expo Inox S.p.a.**, Viale Artigianato 6, Borgo San Siro (PV) - Italy
- 4) Name and contact address of the authorised representative: Not applicable
- 5) System or systems of assessment and verification of constancy of performance of the construction product: System 2+
- 6) Technical specification EN 1856-2, EN 1856-1
- 6a) The notified body KIWA CERMET ITALIA S.p.a, with identification number 0476, performed in accordance of System 2+ 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 of the factory production control
- 7) Declared performance:

(Designation 1)	EN 1856-1	T200 P1 W V2	L50040 O 30	for DN 50÷200	for SW, SW BLACK, SWCLICK
(Designation 1a)	EN 1856-1	T200 H1 W V2	L50040 O 30	for DN 50÷200	for SW
(Designation 2)	EN 1856-1	T200 P1 W V2	L50050 O30	for DN 220÷500	for SW
(Designation 2a)	EN 1856-1	T200 H1 W V2	L50050 O30	for DN 220÷300	for SW
(Designation 3)	EN 1856-2	T600 N1 W V2	L50040 G	for DN 80÷200	for SW, SWCLICK
(Designation 4)	EN 1856-2	T600 N1 W V2	L50040 G500M	for DN 80÷200	for SW, SWCLICK
(Designation 5)	EN 1856-2	T600 N1 W V2	L50050 G	for DN 220÷500	for SW
(Designation 6)	EN 1856-2	T600 N1 W V2	L50050 G500M	for DN 220÷500	for SW
(Designation 7)	EN 1856-2	T600 N1 W V2	L50060 G	for DN 550÷900	for SW
(Designation 8)	EN 1856-2	T600 N1 D V2	L50060 G500M	for DN 550÷900	for SW
(Designation 9)	EN 1856-2	T600 N1 W Vm	L20040 G	for DN 80÷200	for ESW
(Designation 10)	EN 1856-2	T600 N1 D Vm	L20040 G500M	for DN 80÷200	for ESW
(Designation 11)	EN 1856-2	T600 N1 W Vm	L20050 G	for DN 220÷500	for ESW
(Designation 12)	EN 1856-2	T600 N1 D Vm	L20050 G500M	for DN 220÷500	for ESW
(Designation 13)	EN 1856-2	T600 N1 W Vm	L20060 G	for DN 550÷900	for ESW
(Designation 14)	EN 1856-2	T600 N1 D Vm	L20060 G500M	for DN 550÷900	for ESW
(Designation 15)	EN 1856-2	T450 N1 W V2	L50040 G	for DN 80÷200	for SW BLACK
(Designation 16)	EN 1856-2	T450 N1 W V2	L50040 G800M	for DN 80÷200	for SW BLACK
(Designation 17)	EN 1856-2	T200 P1 W Vm	L01120 O30	for DN 80÷100	for Ferex Pellet
(Designation 18)	EN 1856-2	T600 N1 D Vm	L01200 GXXXNM	for DN 120÷180	for Ferex Legna
(Designation 19)	EN 1856-2	T600 N1 D Vm	L01200 G800M	for DN 200	for Ferex Legna
(Designation 20)	EN 1856-2	T600 N1 D Vm	L01120 GXXXNM	for DN 80÷120	for Ferex Pellet
(Designation 21)	EN 1856-2	T200 P1 D V2	L80120 O30M	for DN 80÷100	for Smaltex
(Designation 22)	EN 1856-2	T200 N1 D V2	L80120 GXXXNM	for DN 80÷100	for Smaltex
(Designation 23)	EN 1856-2	T600 N1 D V2	L80120 GXXXNM	for DN 80÷100	for Smaltex
(Designation 24)	EN 1856-2	T600 N1 D V2	L80200 GXXXNM	for DN 120÷180	for Smaltex
(Designation 25)	EN 1856-2	T600 N1 D V2	L80200 G800M	for DN 200	for Smaltex
(Designation 26)	EN 1856-2	T200 P1 W V2	L80080 O30M	for DN 80÷120	for Smaltex
(Designation 27)	EN 1856-2	T200 N1 W V2	L80080 G375NM CG	for DN 80÷120	for Smaltex
(Designation 28)	EN 1856-2	T600 N1 W V2	L80080 G375NM	for DN 80÷120	for Smaltex
(Designation 29)	EN 1856-2	T200 P1 W V2	L80120 O30M	for DN 80÷120	for Ferelux
(Designation 30)	EN 1856-2	T200 N1 W V2	L80120 G375NM CG	for DN 80÷120	for Ferelux
(Designation 31)	EN 1856-2	T600 N1 W V2	L80120 G375NM	for DN 80÷120	for Ferelux

ESSENTIAL CHARACTERISTICS

Compressive strength
Tensile strength
Resistance to side winds



PERFORMANCE

A: maximum height reachable, using the Tee 90° element with a starting plate as base element
B: maximum height supported by the intermediary plate element with supports pair
C: maximum distance between two wall band
D: maximum height reachable from last wall band

Diameter (mm)	Meters			
	A	B	C	D
80	164	79	4	1.5
97	142	69	4	1.5
100	140	68	4	1.5
110	127	61	4	1.5
120	116	56	4	1.5
125	110	54	4	1.5
130	107	52	4	1.5
140	100	48	4	1.5
150	93	36	4	1.5
155	88	34	4	1.5
160	97	33	4	1.5
180	86	30	4	1.5
200	77	27	4	1.5
220	70	24	4	1.5
230	63	20	4	1.5
250	62	21	4	1.5
300	60	15	3	1.5
350	46	31	1	1
400	41	27	1	1
450	36	24	1	1
500	33	21	1	1
550	19	20	1	1
600	18	18	1	1
650	16	16	1	1
700	15	15	1	1
750	14	14	1	1
800	13	13	1	1

HARMONISED TECHNICAL SPECIFICATION

EN 1856-1:2009

Non vertical installation	For Dn 50÷300 - 3 m between supports for SW, ESW, SW BLACK, SWCLICK	EN 1856-2:2009
Resistance to fire	(Designation 3÷16, 18, 19, 20, 23, 24, 25, 27, 28, 30, 31) : G (Designation 1, 1a, 2a, 2, 17, 21, 22, 26, 29) : O	EN 1856-2:2009
Gas tightness / leakage	(Designation 1, 2, 17, 21, 26, 29) : P1 (Designation 1a, 2a) : H1 (Designation 3÷16, 18, 19, 20, 23, 24, 25, 27, 28, 30, 31) : N1	EN 1856-2:2009
Value of roughness	1 mm (according to EN 13384-1)	EN 1856-2:2009
Flow resistance of the elements	According to EN 13384-1	EN 1856-2:2009
Thermal resistance	0.0 m ² C / W	EN 1856-2:2009
Thermal shock resistance	(Designation 1, 1a, 2, 2a, 3, 17, 21, 26, 29) : O30 (Designation 3, 5, 7, 9, 11, 13, 15) : G distance combustible material not applicable (Designation 4, 6, 8, 10, 12, 14) : G500M (Designation 16, 19, 25) : G800M (Designation 16, 19, 25) : G800M (Designation 18, 20, 22, 23, 24) : GXXNM for DN 80÷180 (Designation 27, 28, 30, 31) : G375NM	EN 1856-2:2009
Temperature class	Temperature class: T200 Temperature class: T600	EN 1856-2:2009
Water and vapour diffusion resistance	(Designation 1÷7, 9, 11, 13, 15, 17, 21) : W (Designation 8, 10, 12, 14, 18, 19, 20, 22, 23, 24, 25, 26, 27, 28, 30, 31) : D	EN 1856-2:2009
Durability against corrosion	Class V2 for designation 1÷8, 15, 16, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31 Class Vm for designation 9÷14, 17÷20	EN 1856-2:2009
Freeze-thaw resistance	Pass	EN 1856-2:2009

The performance of the products identified is in conformity with the declared performance. This declaration of performance is issued, in conformity of European standard n. 305/2011, under the sole responsibility of the manufacturer.

(place and date of issue)

Borgo San Siro 01.01.2021

(name and function)





DECLARATION OF PERFORMANCE

Cpr: Dopcpr03

- 1) Unique identification code of the product-type: **Metal Chimney System Dopcpr03**

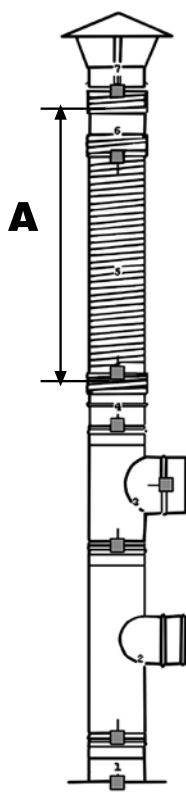
Trade name of the product: **Expoflex, Expoflex (Flexy), Flexeco, Corrflex, Extraflex, Isoflex**

- 2) Intended use or uses of the construction product, in accordance with the applicable harmonised technical specification, as foreseen by the manufacturer: Chimney System for convey the products of combustion from heating appliances to the outside atmosphere
- 3) Name and contact address of the manufacturer: **Expo Inox S.p.a.**, Viale Artigianato 6, Borgo San Siro (PV) - Italy
- 4) Name and contact address of the authorised representative: Not applicable
- 5) System or systems of assessment and verification of constancy of performance of the construction product: System 2+
- 6) Technical specification EN 1856-2
- 6a) The notified body KIWA CERMET ITALIA S.p.a, with identification number 0476, performed in accordance of System 2+ 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 of the factory production control
- 7) Declared performance:

(Designation 1)	EN 1856-2	T200 P1 W V2	L50010/12 O	for DN 50÷160	for Expoflex
(Designation 2)	EN 1856-2	T600 N1 W V2	L50010/12 G	for DN 50÷400	for Expoflex / Isoflex
(Designation 3)	EN 1856-2	T600 N1 W V2	L70010/12 G	for DN 50÷400	for Extraflex
(Designation 4)	EN 1856-2	T200 P1 W V2	L70010/12 O	for DN 50÷160	for Extraflex
(Designation 5)	EN 1856-2	T600 N1 W Vm	L20010/12 O	for DN 60÷400	for Flex Eco
(Designation 6)	EN 1856-2	T120 P1 W V2	L50012 O	for DN 50÷80	for Expoflex (Flexy)
(Designation 7)	EN 1856-2	T200 P1 D V2	L50010/12 O	for DN 50÷160	for Corrflex
(Designation 8)	EN 1856-2	T600 N1 D V2	L50010/12 G	for DN 50÷400	for Corrflex

ESSENTIAL CHARACTERISTICS

Compressive strength, tensile resistance and torsion strength



PERFORMANCE

A: maximum height reachable in meters.

Diameter (mm)	Thickness 0,10 mm	Thickness 0,12 mm
50	110	97
60	110	97
80	110	97
100	94	84
110	88	79
120	84	75
130	79	71
140	76	68
150	73	66
160	70	63
180	66	60
200	62	57
220	59	54
250	56	51
280	53	49
300	51	48
350	48	45
400	46	43

* Maximum applicable torsion strength.

Diameter (mm)	Torsion Strength (kg.m)
50	1,7
60	1,8
80	2,0
100	2,5
120	3,1
130	3,3
140	3,6
150	3,8
160	4,1
180	4,6
200	5,1
220	5,6
250	6,4
280	7,1
300	7,6
350	8,9
400	10,2

HARMONISED TECHNICAL SPECIFICATION

EN 1856-2:2009

Flexibility	Maximum inclination 45°	EN 1856-2:2009
Pulling force	Pass	EN 1856-2:2009
Resistance to fire	(Designation 2, 3, 5, 8) : GEN 1856-2:2009 (Designation 1, 4, 5, 6, 7) : O (Designation 2, 3, 5, 8) : T600	EN 1856-2:2009
Temperature class	(Designation 1, 4, 7) : T200 (Designation 6) : T120	EN 1856-2:2009
Gas tightness / leakage	(Designation 1, 4) : P1 (Designation 2, 3, 5) : N1	EN 1856-2:2009
Value of roughness	1 mm (according to EN 13384-1)	EN 1856-2:2009
Flow resistance of the elements	According to EN 13384-1	EN 1856-2:2009
Thermal resistance	0.0 m ² C / W - for Isoflex 0,40 m ² C / W	EN 1856-2:2009
Components subject to wind load	Pass	EN 1856-2:2009
Water and vapour diffusion resistance	Pass	EN 1856-2:2009
Durability against corrosion	Class V2 Class Vm for designation 5	EN 1856-2:2009
Freeze-thaw resistance	Pass	EN 1856-2:2009

The performance of the products identified is in conformity with the declared performance. This declaration of performance is issued, in conformity of European standard n. 305/2011, under the sole responsibility of the manufacturer.

(place and date of issue)

Borgo San Siro 01.01.2021

(name and function)





DECLARATION OF PERFORMANCE

Cpr: Dopcpr04

- 1) Unique identification code of the product-type: **Chimney System with rigid or flexible inner liner and accessories made of polypropylene Dopcpr04**
- Trade name of the product: **PPex, Plast'inox, Bivent, KITex**
- 2) Intended use or uses of the construction product, in accordance with the applicable harmonised technical specification, as foreseen by the manufacturer: Chimney System for convey the products of combustion from heating appliances to the outside atmosphere
- 3) Name and contact address of the manufacturer: **Expo Inox S.p.a.**, Viale Artigianato 6, Borgo San Siro (PV) - Italy
- 4) Name and contact address of the authorised representative: Not applicable
- 5) System or systems of assessment and verification of constancy of performance of the construction product: System 2+
- 6) Technical specification EN 14471:2013-A12015
- 6a) The notified body KIWA CERMET ITALIA S.p.a, with identification number 0476, performed in accordance of System 2+ 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 of the factory production control
- 7) Declared performance:

(Designation 1)	EN 14471	T120 P1 W 2	O00 I E U /U1	for DN 50÷100 mm	(PPex) KITex
(Designation 2)	EN 14471	T120 H1 W 2	O00 I E U /U1	for DN 50÷100 mm	(PPex) KITex
(Designation 3)	EN 14471	T120 P1 W 2	O00 I E U /U0	for DN 110÷160 mm	(PPex)
(Designation 4)	EN 14471	T120 H1 W 2	O00 I E U /U0	for DN 110÷160 mm	(PPex)
(Designation 5)	EN 14471	T120 P1 W 2	O00 I E U /U0	for DN 175÷200 mm	(PPex)
(Designation 6)	EN 14471	T120 H1 W 2	O00 I E U /U0	for DN 175÷200 mm	(PPex)
(Designation 7)	EN 14471	T120 P1 W 2	O00 I E U /U0		(PPex)
(Designation 8)	EN 14471	T120 P1 W 2	O00 I E U0	for DN 60/80÷80/100	(PPex inox)
(Designation 8a)	EN 14471	T120 H1 W 2	O00 I E U0	for DN 60/80÷80/100	(PPex inox)
(Designation 9)	EN 14471	T120 H1 W 2	O00 I E U0	for DN 60/100÷80/125	(Bivent)
(Designation 10)	EN 14471	T120 P1 W 2	O00 I E U0	for DN 60/100÷80/125	(Bivent)

ESSENTIAL CHARACTERISTICS	PERFORMANCE	HARMONISED TECHNICAL SPECIFICATION
Compressive strength	Pass	EN 14471:2013-A12015
Resistance to fire	O	EN 14471:2013-A12015
Temperature class	(Designation 1÷10) : T120	
Gas tightness / leakage	Designation (1, 3, 5, 7, 8,10) : P1 Designation (2, 4, 6, 8a, 9) : H1	EN 14471:2013-A12015
Components subject to wind load	Pass	EN 14471:2013-A12015
Durability against chemicals		EN 14471:2013-A12015
Condensate and water resistance	W	
Bending and tensile resistance	Pass	
Long-term thermal resistance	2	
Condensate resistance	Pass	
Durability against UV	Designation (1÷7): not allowed Designation (8÷10): allowed	EN 14471:2013-A12015
Durability against thermal load	Pass	EN 14471:2013-A12015

The performance of the products identified is in conformity with the declared performance. This declaration of performance is issued, in conformity of European standard n. 305/2011, under the sole responsibility of the manufacturer.

(place and date of issue)

Borgo San Siro 01.01.2021

(name and function)



DECLARATION OF PERFORMANCE

Cpr: Dopcpr05

- 1) Unique identification code of the product-type: **Metal Chimney System Dopcpr05**

Trade name of the product: **WOODEX**

- 2) Intended use or uses of the construction product, in accordance with the applicable harmonised technical specification, as foreseen by the manufacturer: Chimney System for convey the products of combustion from heating appliances to the outside atmosphere
- 3) Name and contact address of the manufacturer: **Expo Inox S.p.a.**, Viale Artigianato 6, Borgo San Siro (PV) - Italy
- 4) Name and contact address of the authorised representative: Not applicable
- 5) System or systems of assessment and verification of constancy of performance of the construction product: System 2+
- 6) Technical specification EN 1856-2:2009
- 6a) The notified body KIWA CERMET ITALIA S.p.a, with identification number 0476, performed in accordance of System 2+ 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 of the factory production control
- 7) Declared performance:

(Designation 1)	EN 1856-2	T600	N1	D	V2	L80035 G800M	for WOODEX
(Designation 2)	EN 1856-2	T600	N1	D	V2	L80035 O600	for WOODEX

ESSENTIAL CHARACTERISTICS	PERFORMANCE	HARMONISED TECHNICAL SPECIFICATION
Compressive strength	1,2 KN	EN 1856-2:2009
Tensile strength	NPD	EN 1856-2:2009
Non vertical installation	2,2 m 45° with supports	EN 1856-2:2009
Off-axis mounting resistance	NPD	EN 1856-2:2009
Thermal shock resistance:		EN 1856-2:2009
Fire resistance of soot	Yes (G)	
Thermal performance under normal operating conditions	T600	
Resistance to fire	Designation 1: G 800M Designation 2: O600	EN 1856-2:2009
Gas tightness / leakage	N1	EN 1856-2:2009
Flow resistance of the elements	According to EN 13384-1	EN 1856-2:2009
Durability:		EN 1856-2:2009
Water and vapour diffusion resistance	NPD	
Condensate and water resistance	D	
Durability against corrosion	V2	
Freeze-thaw resistance	NPD	

The performance of the products identified is in conformity with the declared performance. This declaration of performance is issued, in conformity of European standard n. 305/2011, under the sole responsibility of the manufacturer.

(place and date of issue)
Borgo San Siro 01.01.2021

(name and function)



DECLARATION OF PERFORMANCE

Cpr: Dopcpr06

- 1) Unique identification code of the product-type: **Metal Chimney System Dopcpr06**

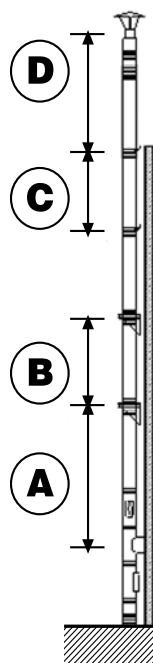
Trade name of the product: **SDW50, SDWC50, Extetic**

- 2) Intended use or uses of the construction product, in accordance with the applicable harmonised technical specification, as foreseen by the manufacturer: Chimney System for convey the products of combustion from heating appliances to the outside atmosphere
- 3) Name and contact address of the manufacturer: **Expo Inox S.p.a.**, Viale Artigianato 6, Borgo San Siro (PV) - Italy
- 4) Name and contact address of the authorised representative: Not applicable
- 5) System or systems of assessment and verification of constancy of performance of the construction product: System 2+
- 6) Technical specification EN 1856-1
- 6a) The notified body KIWA CERMET ITALIA S.p.a, with identification number 0476, performed in accordance of System 2+ 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 of the factory production control
- 7) Declared performance:

(Designation 1)	EN 1856-1	T200 P1 W V2	L50040 O30	for DN 80÷200	for SDW50, SDWC50, Extetic
(Designation 1a)	EN 1856-1	T200 P1 W V2	L50050 O30	for DN 200÷300	for SDW50, SDWC50, Extetic
(Designation 2)	EN 1856-1	T200 P1 W V2	L50050 O45	for DN 350÷450	for SDW50, SDWC50, Extetic
(Designation 3)	EN 1856-1	T200 P1 W V2	L50050 O60	for DN 500÷550	for SDW50, SDWC50, Extetic
(Designation 3a)	EN 1856-1	T200 N1 W V2	L50060 O120	for DN 600÷800	for SDW50, SDWC50, Extetic
(Designation 4)	EN 1856-1	T600 N1 W V2	L50040 G50	for DN 80÷300	for SDW50, SDWC50, Extetic
(Designation 5)	EN 1856-1	T600 N1 W V2	L50050 G75	for DN 350÷450	for SDW50, SDWC50, Extetic
(Designation 6)	EN 1856-1	T600 N1 W V2	L50050 G100	for DN 500÷550	for SDW50, SDWC50, Extetic
(Designation 7)	EN 1856-1	T600 N1 W V2	L50060 G100	for DN 550÷600	for SDW50, SDWC50, Extetic
(Designation 8)	EN 1856-1	T600 N1 W V2	L50060 G200	for DN 650÷800	for SDW50, SDWC50, Extetic
(Designation 9)	EN 1856-1	T200 H1 W V2	L50040 O30	for DN 80÷200	for SDW50, SDWC50, Extetic
(Designation 10)	EN 1856-1	T200 H1 W V2	L50050 O30	for DN 200÷300	for SDW50, SDWC50, Extetic

ESSENTIAL CHARACTERISTICS

Compressive strength



PERFORMANCE

A: maximum height reachable, using the Tee 90° element with a starting plate as base element
B: maximum height supported by the intermediary plate element with supports pair
C: maximum distance between two wall band
D: maximum height reachable from last wall band

Diameter (mm)	Meters			
	A	B	C	D
80	65	26	4	2
100	57	24	4	2
130	48	18	4	2
150	43	11	4	2
180	38	9	4	2
200	35	9	4	2
250	24	8	4	2
300	17	6	3	2
350	15	8	1	1*
400	13	7	1	1*
450	12	6	1	1*
500	*	5	1	1*
550	*	8	1	1*
600	*	8	1	1*
650	*	7	1	1*
700	*	7	1	1*
750	*	6	1	1*
800	*	6	1	1*

* Use guy wire brackets
These values are valid only in case of standard product, refer to the following table

Diameter	Inlet thickness	Outlet thickness
80	4/10	4/10
100	4/10	4/10
130	4/10	4/10
150	4/10	4/10
180	4/10	4/10
200	4/10	4/10
250	5/10	5/10
300	5/10	5/10
350	5/10	5/10
400	5/10	5/10
450	5/10	5/10
500	5/10	5/10
550	6/10	6/10
600	6/10	6/10
650	6/10	6/10
700	6/10	6/10
750	6/10	6/10
800	6/10	6/10

For further different thickness from table please contact Expo Technical Dept.

HARMONISED TECHNICAL SPECIFICATION

EN 1856-1:2009

Resistance to fire (Designation 4) : G50 (Designation 5) : G75 (Designation 6) : G100 (Designation 7) : G100 (Designation 8) : G200 (Designation 1,1a, 9,10) : O30 (Designation 2) O45, (Designation 3) : O60 (Designation 3a) : O120 EN 1856-1:2009

Gas tightness / leakage Designazione 1÷3a : P1 Designazione 4÷8 : N1 Designazione 9÷10 : H1 EN 1856-1:2009

Value of roughness 1 mm (according to EN 13384-1) EN 1856-1:2009

Flow resistance of the elements According to EN 13384-1 EN 1856-1:2009

Thermal resistance 0,56 m²k/W EN 1856-1:2009

Thermal shock resistance Designation (4, 5, 6, 7, 8) G Designation (1, 1a, 2, 3, 3°, 9, 10) O EN 1856-1:2009

Non vertical installation Yes - maximum angle 90° EN 1856-1:2009

Components subject to wind load Yes - see point D of compressive strength EN 1856-1:2009

Water and vapour diffusion resistance W EN 1856-1:2009

Durability against corrosion Class V2 EN 1856-1:2009

Freeze-thaw resistance Pass EN 1856-1:2009

Roof passing through module When the systems SDW50, SDWC50, Extetic used in combination with the roof passing through module the designation G00 is guaranteed in the roof penetration area. The use of a double-walled system from other suppliers, which has a designation with regard to the distance to combustible materials of less than or equal to 70 mm, is permitted.

The performance of the products identified is in conformity with the declared performance. This declaration of performance is issued, in conformity of European standard n. 305/2011, under the sole responsibility of the manufacturer.

(place and date of issue)

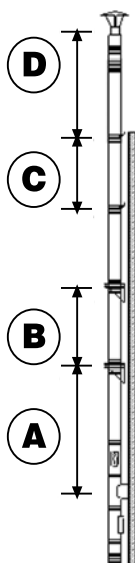
Borgo San Siro 01.01.2021

(name and function)



- 1) Unique identification code of the product-type: **Metal Chimney System Dopcpr07**
Trade name of the product: **ADW10, ADWC10, EADW10**
- 2) Intended use or uses of the construction product, in accordance with the applicable harmonised technical specification, as foreseen by the manufacturer: Chimney System for convey the products of combustion from heating appliances to the outside atmosphere
- 3) Name and contact address of the manufacturer: **Expo Inox S.p.a.**, Viale Artigianato 6, Borgo San Siro (PV) - Italy
- 4) Name and contact address of the authorised representative: Not applicable
- 5) System or systems of assessment and verification of constancy of performance of the construction product: System 2+
- 6) Technical specification EN 1856-1, En 1856-2
- 6a) The notified body KIWA CERMET ITALIA S.p.a, with identification number 0476, performed in accordance of System 2+ 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 of the factory production control
- 7) Declared performance:

(Designation 1)	EN 1856-1	T200 P1 W V2	L50040 O20	for DN 60÷300	for ADW10, ADWC10
(Designation 2)	EN 1856-2	T600 N1 W V2	L50040 G500M	for DN 60÷300	for ADW10, ADWC10
(Designation 3)	EN 1856-2	T600 N1 W V2	L50040 G	for DN 60÷300	for ADW10, ADWC10
(Designation 4)	EN 1856-1	T200 P1 W Vm	L20040 O30	for DN 60÷300	for EADW10

ESSENTIAL CHARACTERISTICS		PERFORMANCE	HARMONISED TECHNICAL SPECIFICATION																																												
Compressive strength		A: maximum height reachable, using the Tee 90° element with a starting plate as base element B: maximum height supported by the intermediary plate element with supports pair C: maximum distance between two wall band D: maximum height reachable from last wall band <table><thead><tr><th rowspan="2">Diameter (mm)</th><th colspan="4">Meters</th></tr><tr><th>A</th><th>B</th><th>C</th><th>D</th></tr></thead><tbody><tr><td>80</td><td>77</td><td>37</td><td>4</td><td>1.5</td></tr><tr><td>100</td><td>63</td><td>31</td><td>4</td><td>1.5</td></tr><tr><td>130</td><td>49</td><td>24</td><td>4</td><td>1.5</td></tr><tr><td>160</td><td>41</td><td>20</td><td>4</td><td>1.5</td></tr><tr><td>180</td><td>36</td><td>14</td><td>4</td><td>1.5</td></tr><tr><td>200</td><td>34</td><td>12</td><td>4</td><td>1.5</td></tr><tr><td>230</td><td>32</td><td>11</td><td>4</td><td>1.5</td></tr></tbody></table>	Diameter (mm)	Meters				A	B	C	D	80	77	37	4	1.5	100	63	31	4	1.5	130	49	24	4	1.5	160	41	20	4	1.5	180	36	14	4	1.5	200	34	12	4	1.5	230	32	11	4	1.5	EN 1856-1:2009, EN 1856-2:2009
Diameter (mm)	Meters																																														
	A	B	C	D																																											
80	77	37	4	1.5																																											
100	63	31	4	1.5																																											
130	49	24	4	1.5																																											
160	41	20	4	1.5																																											
180	36	14	4	1.5																																											
200	34	12	4	1.5																																											
230	32	11	4	1.5																																											
Resistance to fire	(Designation 1, 4) : O20 (Designation 2) : G500M (Designation 3) : G	EN 1856-1:2009, EN 1856-2:2009																																													
Gas tightness / leakage	(Designation 1, 4) : P1 (Designation 2, 3) : N1	EN 1856-1:2009, EN 1856-2:2009																																													
Value of roughness	1 mm (according to EN 13384-1)	EN 1856-1:2009, EN 1856-2:2009																																													
Flow resistance of the elements	According to EN 13384-1	EN 1856-1:2009, EN 1856-2:2009																																													
Thermal resistance	0,20 m²k/W	EN 1856-1:2009, EN 1856-2:2009																																													
Thermal shock resistance	(Designation 2, 3) : G	EN 1856-1:2009, EN 1856-2:2009																																													
Non vertical installation	Yes - maximum angle 90°	EN 1856-1:2009, EN 1856-2:2009																																													
Components subject to wind load	Yes - see point D of compressive strength	EN 1856-1:2009, EN 1856-2:2009																																													
Water and vapour diffusion resistance	W	EN 1856-1:2009, EN 1856-2:2009																																													
Durability against corrosion	Class V2	EN 1856-1:2009, EN 1856-2:2009																																													
Freeze-thaw resistance	Pass	EN 1856-1:2009, EN 1856-2:2009																																													

The performance of the products identified is in conformity with the declared performance. This declaration of performance is issued, in conformity of European standard n. 305/2011, under the sole responsibility of the manufacturer.

(place and date of issue)

Borgo San Siro 01.01.2021

(name and function)





DECLARATION OF PERFORMANCE

Cpr: Dopcpr08

- 1) Unique identification code of the product-type: **Metal Chimney System Dopcpr08**
Trade name of the product: **Bivent inox/inox, Bivent inox/inox Black, Coax/CLV**
- 2) Intended use or uses of the construction product, in accordance with the applicable harmonised technical specification, as foreseen by the manufacturer: Chimney System for convey the products of combustion from heating appliances to the outside atmosphere
- 3) Name and contact address of the manufacturer: **Expo Inox S.p.a.**, Viale Artigianato 6, Borgo San Siro (PV) - Italy
- 4) Name and contact address of the authorised representative: Not applicable
- 5) System or systems of assessment and verification of constancy of performance of the construction product: System 2+
- 6) Technical specification EN 1856-1, EN 14989-2
- 6a) The notified body KIWA CERMET ITALIA S.p.a, with identification number 0476, performed in accordance of System 2+ 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 of the factory production control
- 7) Declared performance:

(Designation 1)	EN 1856-1 - EN 14989-2	T200 P1 W V2	L50040	O50
(Designation 2)	EN 1856-1	T600 N1 W V2	L50040	G80
(Designation 3)	EN 14989-2	T600 N1 W V2	L50040	G100

ESSENTIAL CHARACTERISTICS	PERFORMANCE	HARMONISED TECHNICAL SPECIFICATION
Compressive strength	Pass	EN 1856-1:2009, EN 14989-2
Resistance to fire	O50 (Designation 1) G80 (Designation 2) G100 (Designation 3)	EN 1856-1:2009, EN 14989-2
Gas tightness / leakage	(Designation 1) : P1 (Designation 2) : N1	EN 1856-1:2009, EN 14989-2
Value of roughness	1 mm (according to EN 13384-1)	EN 1856-1:2009, EN 14989-2
Flow resistance of the elements	According to EN 13384-1	EN 1856-1:2009, EN 14989-2
Thermal resistance	0,59 m ² k/W	EN 1856-1:2009, EN 14989-2
Thermal shock resistance	(Designation 2) : G	EN 1856-1:2009, EN 14989-2
Non vertical installation	Yes - maximum angle 90°	EN 1856-1:2009, EN 14989-2
Components subject to wind load	Pass	EN 1856-1:2009, EN 14989-2
Water and vapour diffusion resistance	W	EN 1856-1:2009, EN 14989-2
Durability against corrosion	Class V2	EN 1856-1:2009, EN 14989-2
Freeze-thaw resistance	Pass	EN 1856-1:2009, EN 14989-2

The performance of the products identified is in conformity with the declared performance. This declaration of performance is issued, in conformity of European standard n. 305/2011, under the sole responsibility of the manufacturer.

(place and date of issue)

Borgo San Siro 01.01.2021

(name and function)

- 1) Unique identification code of the product-type: **Metal Chimney System Dopcpr09**
Trade name of the product: **DW10 - DW10 Black**
- 2) Intended use or uses of the construction product, in accordance with the applicable harmonised technical specification, as foreseen by the manufacturer: Chimney System for convey the products of combustion from heating appliances to the outside atmosphere
- 3) Name and contact address of the manufacturer: **Expo Inox S.p.a.**, Viale Artigianato 6, Borgo San Siro (PV) - Italy
- 4) Name and contact address of the authorised representative: Not applicable
- 5) System or systems of assessment and verification of constancy of performance of the construction product: System 2+
- 6) Technical specification EN 1856-1, En 1856-2
- 6a) The notified body KIWA CERMET ITALIA S.p.a, with identification number 0476, performed in accordance of System 2+ 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 of the factory production control
- 7) Declared performance:

(Designation 1)	EN 1856-1	T200 P1 W V2	L50040 O30	for DN 80÷100	for DW10, DW10 Black
(Designation 2)	EN 1856-2	T600 N1 W V2	L50040 G500M	for DN 80÷100	for DW10, DW10 Black
(Designation 3)	EN 1856-2	T600 N1 W V2	L50040 G	for DN 80÷100	for DW10, DW10 Black

ESSENTIAL CHARACTERISTICS		PERFORMANCE	HARMONISED TECHNICAL SPECIFICATION																			
Compressive strength		A: maximum height reachable, using the Tee 90° element with a starting plate as base element B: maximum height supported by the intermediary plate element with supports pair C: maximum distance between two wall band D: maximum height reachable from last wall band <table><thead><tr><th rowspan="2">Diameter (mm)</th><th colspan="4">Meters</th></tr><tr><th>A</th><th>B</th><th>C</th><th>D</th></tr></thead><tbody><tr><td>80</td><td>77</td><td>37</td><td>4</td><td>1.5</td></tr><tr><td>100</td><td>63</td><td>31</td><td>4</td><td>1.5</td></tr></tbody></table>	Diameter (mm)	Meters				A	B	C	D	80	77	37	4	1.5	100	63	31	4	1.5	EN 1856-1:2009, EN 1856-2:2009
Diameter (mm)	Meters																					
	A	B	C	D																		
80	77	37	4	1.5																		
100	63	31	4	1.5																		
Resistance to fire	(Designation 1, 3) : O30 (Designation 2) : G500M (Designation 3) : G		EN 1856-1:2009, EN 1856-2:2009																			
Gas tightness / leakage	(Designation 1) : P1 (Designation 2, 3) : N1		EN 1856-1:2009, EN 1856-2:2009																			
Value of roughness	1 mm (according to EN 13384-1)		EN 1856-1:2009, EN 1856-2:2009																			
Flow resistance of the elements	According to EN 13384-1		EN 1856-1:2009, EN 1856-2:2009																			
Thermal resistance	0,21 m²k/W		EN 1856-1:2009, EN 1856-2:2009																			
Thermal shock resistance	(Designation 2, 3) : G		EN 1856-1:2009, EN 1856-2:2009																			
Non vertical installation	Yes - maximum angle 90°		EN 1856-1:2009, EN 1856-2:2009																			
Components subject to wind load	Yes - see point D of compressive strength		EN 1856-1:2009, EN 1856-2:2009																			
Water and vapour diffusion resistance	W		EN 1856-1:2009, EN 1856-2:2009																			
Durability against corrosion	Class V2		EN 1856-1:2009, EN 1856-2:2009																			
Freeze-thaw resistance	Pass		EN 1856-1:2009, EN 1856-2:2009																			

The performance of the products identified is in conformity with the declared performance. This declaration of performance is issued, in conformity of European standard n. 305/2011, under the sole responsibility of the manufacturer.

(place and date of issue)

Borgo San Siro 01.01.2021

(name and function)





DECLARATION OF PERFORMANCE

Cpr: Dopcpr10

- 1) Unique identification code of the product-type: **Metal Chimney System Dopcpr10**

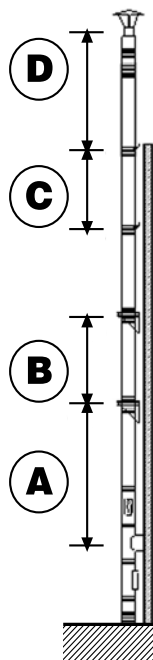
Trade name of the product: **DW25H1COGEN**

- 2) Intended use or uses of the construction product, in accordance with the applicable harmonised technical specification, as foreseen by the manufacturer: Chimney System for convey the products of combustion from heating appliances to the outside atmosphere
- 3) Name and contact address of the manufacturer: **Expo Inox S.p.a.**, Viale Artigianato 6, Borgo San Siro (PV) - Italy
- 4) Name and contact address of the authorised representative: Not applicable
- 5) System or systems of assessment and verification of constancy of performance of the construction product: System 2+
- 6) Technical specification EN 1856-1:2009
- 6a) The notified body KIWA CERMET ITALIA S.p.a, with identification number 0476, performed in accordance of System 2+ 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 of the factory production control
- 7) Declared performance:

(Designation 1)	EN 1856-1	T600 H1 W V2	L50040 G80	for DN 80÷200	for DW25H1COGEN
(Designation 2)	EN 1856-1	T600 H1 W V2	L50050 G80	for DN 200÷300	for DW25H1COGEN
(Designation 3)	EN 1856-1	T600 H1 W V2	L50050 G120	for DN 350÷450	for DW25H1COGEN
(Designation 4)	EN 1856-1	T600 H1 W V2	L50050 G160	for DN 500	for DW25H1COGEN
(Designation 5)	EN 1856-1	T600 H1 W V2	L50060 G160	for DN 550÷600	for DW25H1COGEN
(Designation 6)	EN 1856-1	T600 H1 W V2	L50060 G320	for DN 650÷900	for DW25H1COGEN

ESSENTIAL CHARACTERISTICS

Compressive strength



PERFORMANCE

A: maximum height reachable, using the Tee 90° element with a starting plate as base element
B: maximum height supported by the intermediary plate element with supports pair
C: maximum distance between two wall band
D: maximum height reachable from last wall band

Diameter (mm)	Meters			
	A	B	C	D
80	50	50	4	2
100	42	42	4	2
130	34	34	4	2
150	30	30	4	2
180	30	30	4	2
200	30	30	4	2
250	26	30	4	2
300	22	30	4	2
350	19	30	3	1,5
400	25 *	25	3	1,5
450	25 *	22	3	1,5
500	25 *	20	3	1,5
550	25 *	16	3	1,5
600	20 *	15	3	1,5
650	20 *	14	3	1,5
700	19 *	13	3	1,5
750	18 *	5	2	1
800	17 *	5	1	1
850	17 *	4	1	1
900	16 *	4	1	1

* Reinforced Tee 90.

Diameter	Inlet thickness	Outlet thickness
80	0,4	0,4
100	0,4	0,4
130	0,4	0,4
150	0,4	0,4
180	0,4	0,4
200	0,4	0,4
250	0,5	0,5
300	0,5	0,5
350	0,5	0,5
400	0,5	0,5
450	0,5	0,5
500	0,5	0,5
550	0,6	0,6
600	0,6	0,6
650	0,6	0,6
700	0,6	0,6
750	0,6	0,6
800	0,6	0,6
850	0,6	0,6
900	0,6	0,6

For further different thickness from table please contact Expo Technical Dept.

EN 1856-1:2009

Resistance to fire

(Designation 1, 2, 10) : G80
(Designation 3) : G120
(Designation 4, 5) : G160
(Designation 6) : G320

EN 1856-1:2009

Gas tightness / leakage

(Designation 1, 2, 3, 4, 5, 6) : H1

EN 1856-1:2009

Value of roughness

1 mm (according to EN 13384-1)

EN 1856-1:2009

Flow resistance of the elements

According to EN 13384-1

EN 1856-1:2009

Thermal resistance

0,46 m²K/W

EN 1856-1:2009

Thermal shock resistance

(Designation 1, 2, 3, 4, 5, 6) : G

EN 1856-1:2009

Non vertical installation

Yes - maximum angle 90°

EN 1856-1:2009

Components subject to wind load

Yes - see point C/D of compressive strength

EN 1856-1:2009

Water and vapour diffusion resistance

W

EN 1856-1:2009

Durability against corrosion

Class V2

EN 1856-1:2009

Freeze-thaw resistance

Pass

EN 1856-1:2009

Roof passing through module

When the systems DW25H1COGEN is used in combination with the roof passing through module the designation G00 is guaranteed in the roof penetration area.

The performance of the products identified is in conformity with the declared performance. This declaration of performance is issued, in conformity of European standard n. 305/2011, under the sole responsibility of the manufacturer.

(place and date of issue)

Borgo San Siro 28.11.2022

(name and function)





DECLARATION OF PERFORMANCE

Cpr: Dopcpr11

- 1) Unique identification code of the product-type: **Metal Chimney System Dopcpr11**

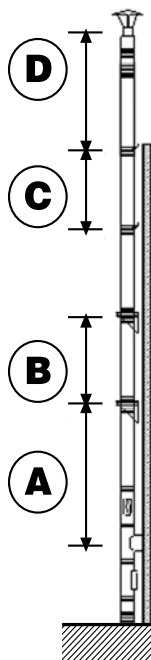
Trade name of the product: **SDW50H1COGEN**

- 2) Intended use or uses of the construction product, in accordance with the applicable harmonised technical specification, as foreseen by the manufacturer: Chimney System for convey the products of combustion from heating appliances to the outside atmosphere
- 3) Name and contact address of the manufacturer: **Expo Inox S.p.a.**, Viale Artigianato 6, Borgo San Siro (PV) - Italy
- 4) Name and contact address of the authorised representative: Not applicable
- 5) System or systems of assessment and verification of constancy of performance of the construction product: System 2+
- 6) Technical specification EN 1856-1:2009
- 6a) The notified body KIWA CERMET ITALIA S.p.a, with identification number 0476, performed in accordance of System 2+ 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 of the factory production control
- 7) Declared performance:

(Designation 1)	EN 1856-1	T600 H1 W V2	L50040 G80	for DN 80÷200	for SDW50H1COGEN
(Designation 2)	EN 1856-1	T600 H1 W V2	L50050 G80	for DN 200÷300	for SDW50H1COGEN
(Designation 3)	EN 1856-1	T600 H1 W V2	L50050 G120	for DN 350÷450	for SDW50H1COGEN
(Designation 4)	EN 1856-1	T600 H1 W V2	L50050 G160	for DN 500	for SDW50H1COGEN
(Designation 5)	EN 1856-1	T600 H1 W V2	L50060 G160	for DN 550÷600	for SDW50H1COGEN
(Designation 6)	EN 1856-1	T600 H1 W V2	L50060 G320	for DN 650÷900	for SDW50H1COGEN

ESSENTIAL CHARACTERISTICS

Compressive strength



PERFORMANCE

A: maximum height reachable, using the Tee 90° element with a starting plate as base element
B: maximum height supported by the intermediary plate element with supports pair
C: maximum distance between two wall band
D: maximum height reachable from last wall band

Diameter (mm)	Meters			
	A	B	C	D
80	50	50	4	2
100	42	42	4	2
130	34	34	4	2
150	30	30	4	2
180	25	30	4	2
200	25	30	4	2
250	20	30	4	2
300	15	25	3	1,5
350	13	22	3	1,5
400	25 *	19	3	1,5
450	25 *	17	3	1,5
500	23 *	12	3	1,5
550	20 *	12	3	1,5
600	20 *	11	3	1,5
650	18 *	10	3	1,5
700	17 *	8	2	1
750	16 *	5	1	1
800	15 *	5	1	1
850	15 *	4	1	1
900	14 *	4	1	1

* Reinforced Tee 90.

Diameter	Inlet thickness	Outlet thickness
80	0,4	0,4
100	0,4	0,4
130	0,4	0,4
150	0,4	0,4
180	0,4	0,4
200	0,4	0,4
250	0,5	0,5
300	0,5	0,5
350	0,5	0,5
400	0,5	0,5
450	0,5	0,5
500	0,5	0,5
550	0,6	0,6
600	0,6	0,6
650	0,6	0,6
700	0,6	0,6
750	0,6	0,6
800	0,6	0,6
850	0,6	0,6
900	0,6	0,6

For further different thickness from table please contact Expo Technical Dept.

HARMONISED TECHNICAL SPECIFICATION

EN 1856-1:2009

Resistance to fire	(Designation 1, 2, 10) : G80 (Designation 3) : G120 (Designation 4, 5) : G160 (Designation 6) : G320	EN 1856-1:2009
Gas tightness / leakage	(Designation 1, 2, 3, 4, 5, 6) : H1	EN 1856-1:2009
Value of roughness	1 mm (according to EN 13384-1)	EN 1856-1:2009
Flow resistance of the elements	According to EN 13384-1	EN 1856-1:2009
Thermal resistance	0,86 m ² k/W	EN 1856-1:2009
Thermal shock resistance	(Designation 1, 2, 3, 4, 5, 6) : G	EN 1856-1:2009
Non vertical installation	Yes - maximum angle 90°	EN 1856-1:2009
Components subject to wind load	Yes - see point C/D of compressive strength	EN 1856-1:2009
Water and vapour diffusion resistance	W	EN 1856-1:2009
Durability against corrosion	Class V2	EN 1856-1:2009
Freeze-thaw resistance	Pass	EN 1856-1:2009

Roof passing through module
When the systems SDW50H1COGEN is used in combination with the roof passing through module the designation G00 is guaranteed in the roof penetration area.

The performance of the products identified is in conformity with the declared performance. This declaration of performance is issued, in conformity of European standard n. 305/2011, under the sole responsibility of the manufacturer.

(place and date of issue)

Borgo San Siro 28.11.2022

(name and function)





DECLARATION OF PERFORMANCE

Cpr: Dopcpr12

- 1) Unique identification code of the product-type: **Metal Chimney System Dopcpr12**

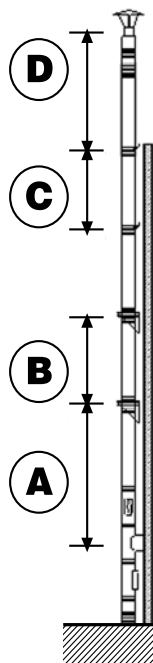
Trade name of the product: **SWH1COGEN**

- 2) Intended use or uses of the construction product, in accordance with the applicable harmonised technical specification, as foreseen by the manufacturer: Chimney System for convey the products of combustion from heating appliances to the outside atmosphere
- 3) Name and contact address of the manufacturer: **Expo Inox S.p.a.**, Viale Artigianato 6, Borgo San Siro (PV) - Italy
- 4) Name and contact address of the authorised representative: Not applicable
- 5) System or systems of assessment and verification of constancy of performance of the construction product: System 2+
- 6) Technical specification EN 1856-2
- 6a) The notified body KIWA CERMET ITALIA S.p.a, with identification number 0476, performed in accordance of System 2+ 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 of the factory production control
- 7) Declared performance:

(Designation 1)	EN 1856-2	T600 H1 W V2	L50040 G500M	for DN 80÷200	for SWH1COGEN
(Designation 2)	EN 1856-2	T600 H1 W V2	L50050 G500M	for DN 220÷500	for SWH1COGEN
(Designation 3)	EN 1856-2	T600 H1 D V2	L50060 G500M	for DN 550÷900	for SWH1COGEN

ESSENTIAL CHARACTERISTICS

Compressive strength
Tensile strength
Resistance to side winds



PERFORMANCE

A: maximum height reachable, using the Tee 90° element with a starting plate as base element
B: maximum height supported by the intermediary plate element with supports pair
C: maximum distance between two wall band
D: maximum height reachable from last wall band

Diameter (mm)	Meters			
	A	B	C	D
80	164	79	3	2.5
97	142	69	3	2.5
100	140	68	3	2.5
110	127	61	3	2.5
120	116	56	3	2.5
125	110	54	3	2.5
130	107	52	3	2.5
140	100	48	3	2.5
150	93	36	3	2.5
155	88	34	3	2.5
160	97	33	3	2.5
180	86	30	3	2.5
200	77	27	3	2.5
220	70	24	3	2.5
230	63	20	3	2.5
250	62	21	3	2.5
300	60	15	3	2.5
350	46	31	3	2.5
400	41	27	3	2.5
450	36	24	3	2.5
500	33	21	3	2.5
550	27	24	3	2.5
600	25	22	3	2.5
650	23	20	3	2.5
700	21	19	3	2.5
750	20	15	2	1
800	19	14	1	1
850	18	13	1	1
900	17	13	1	1

HARMONISED TECHNICAL SPECIFICATION

EN 1856-1:2009

Non vertical installation	For Dn 80÷900	EN 1856-2:2009
Resistance to fire	(Designation 1, 2, 3) : G	EN 1856-2:2009
Gas tightness / leakage	(Designation 1, 2, 3) : H1	EN 1856-2:2009
Value of roughness	1 mm (according to EN 13384-1)	EN 1856-2:2009
Flow resistance of the elements	According to EN 13384-1	EN 1856-2:2009
Thermal resistance	0.0 m²k/W	EN 1856-2:2009
Thermal shock resistance	(Designation 1, 2, 3) : G500M	EN 1856-2:2009
Temperature class	Temperature class: T600	EN 1856-2:2009
Water and vapour diffusion resistance	(Designation 1÷3) : W	EN 1856-2:2009
Durability against corrosion	Class V2	EN 1856-2:2009
Freeze-thaw resistance	Pass	EN 1856-2:2009

The performance of the products identified is in conformity with the declared performance. This declaration of performance is issued, in conformity of European standard n. 305/2011, under the sole responsibility of the manufacturer.

(place and date of issue)
Borgo San Siro 28.11.2022

(name and function)

