

TECHNICAL SPECIFICATIONS

FLEXIBLE CHIMNEY TUBE LINING



Product information for customers

If you decide using a flexible system, please be sure you select the correct type of chimney lining. The diameter is stipulated by the total length, including the connections and course of the tube lining, the capacity, the type of appliance and the fuel. The choice of system is depending of the used appliance and the national standards and building regulations.

The Decflex tube lining material is an universal system with EC, KOMO, GastecQA and NF221 standards and is suitable for over-en underpressure applications within wet or dry circumstances.

The **DECFLEX** range can be divided into three main groups:

- Single-walled products.
- Double-walled products. (inside smooth)
- Accessories.

	SINGLE-WALLED WITH TRIPLE LOCKSEAM	
	Product name:	DECFLEX SWE/316 L
	Product code:	D1BYE {Ø} L
	Material:	Austenitic stainless steel (AISI 316L / DIN 1.4435)
	Application:	In situations where no special provisions for condensation are required
	SINGLE-WALLED WITH TRIPLE LOCKSEAM	
	Product name:	DECFLEX SW/316 Ti
	Product code:	D2BY {Ø} L
	Material:	Austenitic stainless steel (AISI 316Ti / DIN 1.4571)
Application:	In situations where no special provisions for condensation are required	
SINGLE-WALLED WITH TRIPLE LOCKSEAM		
Product name:	DECFLEX SW/904L	
Product code:	D3BY{Ø}L	
Material:	Austenitic stainless steel (AISI 904L/DIN 1.4539)	
Application:	Heating source where condensation occurs	
	DOUBLE-WALLED WITH TRIPLE LOCKSEAM	
	Product name:	DECFLEX TW/316Ti/DIN 1.4571
	Product code:	D22BY {Ø} L
	Material:	Austenitic stainless steel (AISI 316Ti/DIN 1.4571)
	Application:	In situations where no special provisions for condensation are required
	DOUBLE-WALLED WITH TRIPLE LOCKSEAM	
	Product name:	DECFLEX TW/904L/DIN 1.4539
	Product code:	D33BY{Ø}L
	Material:	Austenitic stainless steel (AISI 904L/DIN 1.4539)
Application:	Heating source where condensation occurs using wood, coal and oil	

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DECFLEX

Attention: Do NOT use these products for halogen-contaminated exhaust gases!!

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Material quality				
Product code	Material	Alloy	Thickness(m m)	Wall properties
D1AYE	AISI 316L / 1.4435	1.4435	0.100	corrugated
D1BYE	AISI 316L / 1.4435	1.4435	0.120	corrugated
D2BY	AISI 316Ti / 1.4571	1.4571	0.120	corrugated
D3BY	AISI 904 L / 1.4539	1.4539	0.120	corrugated
D22BY	AISI 316Ti / 1.4571	1.4571	0.240	outside cover corrugated, inside smooth
D33BY	AISI 904 L / 1.4539	1.4539	0.240	outside cover corrugated, inside smooth

- In all the above Cold Rolled Bright Annealed (tested according to EN 10204 3.1B)

Description of the production process

The production process is certified according to:

- **EN-ISO9001: 2000** by Bureau Veritas (**BVQI**).
- **EN 1856-2** with Factory Production Control (FPC) per product by **CSTB**.

All flexible tubes have been marked at least every three metres with:

- Product name,
- Production date with ordernumber,
- nominal measurements,
- batch numbers and
- hallmark(s).

A line marks every metre.

Packaging

The flexible tubing comes standard in easy rolls covered with polyethylene elastic foil to minimise packaging waste.

As extra protection a box or protection foil can be used.

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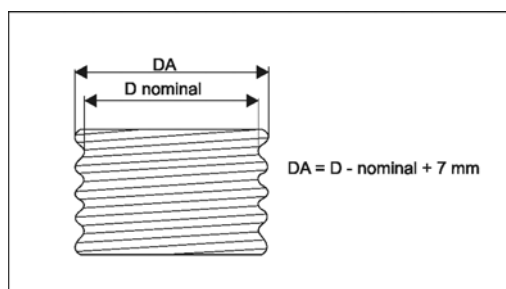


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FLEXIBLE CHIMNEY TUBE LINING

Single-walled		D2BY and D3BY				
Load	Diameter			Zeta	Bending radius min (mm)	Kg/m
Nett [kW]	Ø nom [mm]	wood min. max. L in metres	oil min. max. L in metres			
5	080	5 - 5	3 - 5	0.72	240	0.50
10	080	X	X	0.72	240	0.50
5	090	3 - 6	2 - 5	0.61	270	0.56
10	090	X	5	0.61	270	0.56
5	100	3 - 5	2 - 4	0.53	300	0.62
10	100	6 - 9	3 - 7	0.53	300	0.62
7.5	110	3 - 7	2 - 6	0.47	330	0.68
15	110	11 - 12	4 - 10	0.47	330	0.68
7.5	120	2 - 7	2 - 6	0.41	360	0.74
15	120	6 - 11	3 - 9	0.41	360	0.74
7.5	125	2 - 6	2 - 5	0.39	375	0.77
15	125	5 - 11	3 - 9	0.39	375	0.77
10	130	3 - 8	2 - 7	0.37	390	0.81
20	130	7 - 13	4 - 11	0.37	390	0.81
15	140	3 - 11	2 - 9	0.34	420	0.87
30	140	16 - 18	5 - 15	0.34	420	0.87
15	150	2 - 10	2 - 9	0.31	450	0.93
30	150	7 - 17	3 - 14	0.31	450	0.93
15	160	2 - 10	2 - 10	0.28	480	0.99
30	160	5 - 17	3 - 14	0.28	480	0.99
20	180	2 - 12	2 - 10	0.24	540	1.11
40	180	6 - 20	3 - 16	0.24	540	1.11
25	200	2 - 13	2 - 11	0.21	600	1.24
50	200	5 - 22	3 - 18	0.21	600	1.24
35	225	2 - 16	2 - 14	0.17	675	1.39
70	225	6 - 27	3 - 23	0.17	675	1.39
40	250	2 - 17	2 - 14	0.16	750	1.55
80	250	5 - 29	3 - 24	0.16	750	1.55
55	300	2 - 20	2 - 17	0.12	900	1.86
110	300	4 - 34	3 - 28	0.12	900	1.86
80	350	2 - 25	2 - 21	0.10	1050	2.17
160	350	5 - 42	3 - 35	0.10	1050	2.17

"x" in the tables stands for no dry chimney with sufficient capacity



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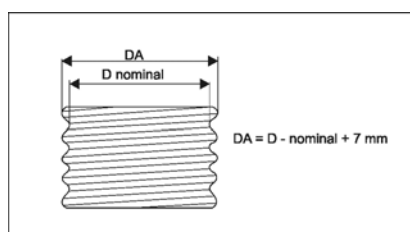


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Double-walled		D22BY and D33BY				
Load	Diameter	wood		Zeta	Bending radius	Kg/m
Nett [kW]	Ø nom [mm]	min. max. L in metres	oil min. max. L in metres		min (mm)	
5	100	2 - 6	2 - 5	0.38	300	0.93
10	100	5 - 10	3 - 8	0.38	300	0.93
7.5	110	3 - 8	2 - 7	0.34	330	1.02
15	110	7 - 13	4 - 11	0.34	330	1.02
7.5	120	2 - 8	2 - 6	0.30	360	1.11
15	120	5 - 13	3 - 11	0.30	360	1.11
7.5	125	2 - 7	2 - 6	0.29	375	1.16
15	125	4 - 12	3 - 11	0.29	375	1.16
10	130	2 - 9	2 - 8	0.27	390	1.21
20	130	5 - 15	3 - 13	0.27	390	1.21
15	140	3 - 12	2 - 10	0.25	420	1.30
30	140	9 - 20	4 - 17	0.25	420	1.30
15	150	2 - 12	2 - 10	0.23	450	1.39
30	150	6 - 19	3 - 16	0.23	450	1.39
15	160	2 - 13	2 - 11	0.21	480	1.48
30	160	4 - 19	3 - 16	0.21	480	1.48
20	180	2 - 13	2 - 11	0.18	540	1.67
40	180	5 - 22	3 - 19	0.18	540	1.67
25	200	2 - 15	2 - 13	0.16	600	1.85
50	200	5 - 25	3 - 21	0.16	600	1.85
35	225	2 - 18	2 - 15	0.14	675	2.00
70	225	5 - 30	3 - 26	0.14	675	2.00
40	250	2 - 19	2 - 17	0.12	750	2.32
80	250	5 - 32	3 - 28	0.12	750	2.32
55	300	2 - 23	2 - 20	0.09	900	2.78
110	300	4 - 38	3 - 33	0.09	900	2.78
80	350	2 - 29	2 - 24	0.08	1050	3.29
160	350	4 - 47	3 - 40	0.08	1050	3.29

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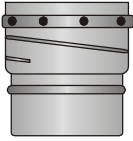
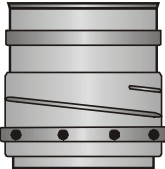

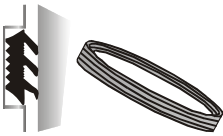

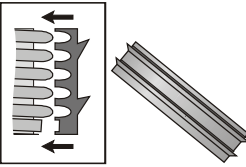
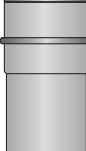
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ACCESSORIES:

	ADAP1-PW {Ø}	Connecting piece/Flex
	Material thickness: 0.5 mm	Stainless steel 316L/DIN 1.4404
	Available diameters (mm): 080, 090, 100, 113, 125, 130, 150, 180, 200.	
	ADAP2-PW {Ø}	Flex/Connecting piece
	Material thickness: 0.5 mm	Stainless steel 316L/DIN 1.4404
	Available diameters (mm): 080, 090, 100, 113, 125, 130, 150, 180, 200.	
	HT kit	Sealingkit for ADAPPW
	Maximum temperature combustion gases 200°C	High temperature Silicone sealant kit
	Tube of 310ml	
	ADAS3 {Ø}	Sealing ring for ADAP2PW female side
	Maximum temperature combustion gases 200°C	Silicone rubber
	Available diameters (mm): 080, 100, 113, 130, 150, 180, 200.	
	ADAP1RG {Ø}	Connecting piece/Flex
	Material thickness: 0.5 mm	Stainless steel 316L/DIN 1.4404
	Available diameters (mm): 080, 090, 100, 110, 120, 130, 150	
	ADAS1 {Ø}	Sealing ring for ADAP1R(G)
	Maximum temperature combustion gases 250°C	Silicone rubber
	Available diameters (mm): 080, 90, 100, 110, 130, 150.	
	ADAP 2 {Ø}	Flex/Connecting piece
	Material thickness: 0.5 mm	Stainless steel 316L/DIN 1.4404
	Available diameters (mm): 080, 090, 100, 125, 130, 150, 180, 200, 225, 250, 300	

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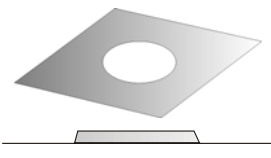
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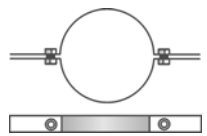


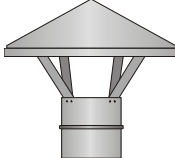
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ACCESSORIES:

	ADAP3 {Ø}		Cover plate for ADAP2	
	Material thickness: 0.5 mm		Stainless steel 316L/DIN 1.4404	
	Available diameters (mm): 080, 090, 100, 125, 130, 150, 180, 200, 225, 250, 300			

	FLS 316Ti {Ø}		Mounting bracket	
	Material thickness: 2.0 mm		Stainless steel 316Ti/ 1.4571	
	Available diameters (mm): 080, 090, 100, 125, 130, 150, 180, 200, 250, 300			

	FLRC {Ø}		Raincap	
	Material thickness 0.6 mm		Stainless steel 316L/ 1.4404	
	Available diameters (mm):: 080, 100, 110, 130, 150, 180, 200.			

	FLRC1 {Ø}		Raincap with clamp	
	Material thickness 0.6 mm		Stainless steel 316L/ 1.4404	
	Available diameters (mm):: 080, 100, 110, 130, 150, 180, 200.			

	FLCR1 {Ø}		Clamping bracket	
	Material thickness: 0.6 mm		Stainless steel 316/ 1.4401	
	Available for diameters (mm): 080, 100, 110, 130, 150, 180, 200.			

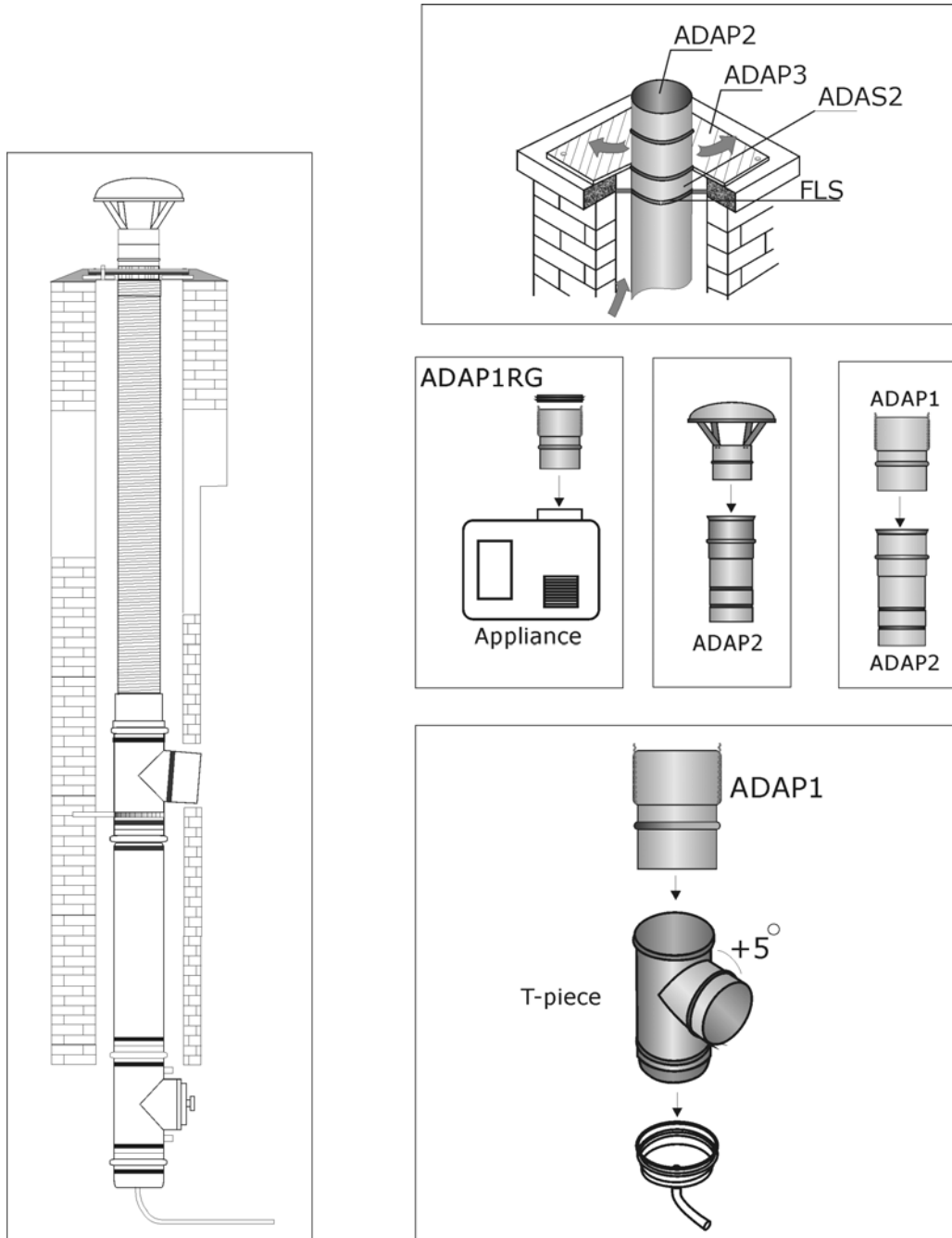
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Sample situations (illustrations serve as examples only). The manufacturer accepts no liability for the ultimate construction.



Accessories are attached using clamping brackets.
When using a condensation drain: connect this to the sewer system, but do not insert a goose-neck.

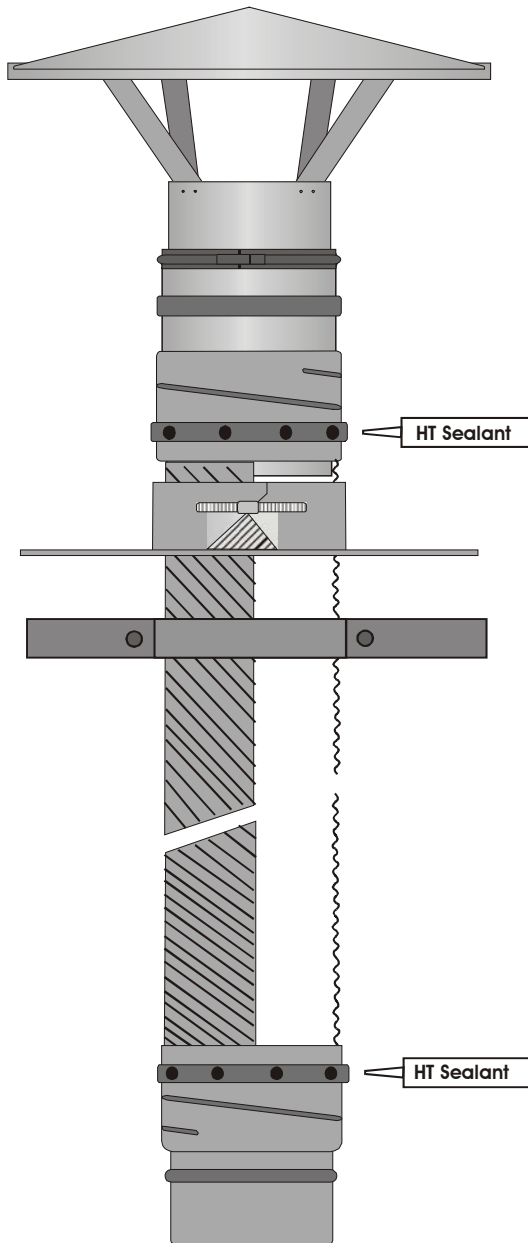
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Overpressure systems



Underpressure systems

