

# OTHER INFORMATION

## DECLARATION OF CONFORMITY

**EN 14471 System chimneys with plastic liners**  
Requirements and testing methods



**Manufacturer information:**

**Almeva AG**  
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[www.almeva.ch](http://www.almeva.ch)



**Product identification:**

**Plastic chimney liners**  
"ALMEVA EASY"  
Versions: One-layer  
Two-layer (concentric)

**Name, function of person responsible:**

**Jürg Braun**  
Almeva AG agent

**Place of notification:**

**TUV Industrie Service GmbH**  
Munich, Germany

**Number of certification:**

**CE 0036 CPD 9165 001**

Characteristics of original documents according to EN 14471, enclosure ZA

0.1	PP Gas flue system <b>Single-layer</b>	EN 14471	T120	H1 / P1	O	W	2	O20	I	D	L	one-layer gas flue system combustion gas route: PP
0.2	PP Gas flue system <b>Concentric</b>	EN 14471	T120	H1 / P1	O	W	2	O00	I	D	L1	two-layer gas flue system combustion gas route: PP coating: plastic
0.3	PP Gas flue system <b>Concentric</b>	EN 14471	T120	H1 / P1	O	W	2	O00	E	D	L0	two-layer gas flue system combustion gases route: PP coating: steel, aluminum
0.4	PP Gas flue system <b>Concentric</b>	EN 14471	T120	H1 / P1	O	W	2	O00	E	D	L0	two-layer gas flue system combustion gases route: PP coating: stainless steel

Product description													<table border="1"> <tr> <td><b>Section / Block</b> PP – Gas flue system</td> </tr> <tr> <td><b>Compressive strength</b> Max. height (starr): 30 m Max. height (flex): 30 m</td> </tr> <tr> <td><b>Wind load</b> free height above last holder [0.1 / 0.2 / 0.3 - 1.5 m] [0.4 - 3.0 m]</td> </tr> <tr> <td><b>Thermal resistance</b> 0.00 m2KW</td> </tr> <tr> <td><b>Fire resistance</b> D</td> </tr> <tr> <td><b>Bending strength</b> n.p.d.</td> </tr> <tr> <td><b>Loss of pressure</b> Value corresponds with EN 13384</td> </tr> </table>	<b>Section / Block</b> PP – Gas flue system	<b>Compressive strength</b> Max. height (starr): 30 m Max. height (flex): 30 m	<b>Wind load</b> free height above last holder [0.1 / 0.2 / 0.3 - 1.5 m] [0.4 - 3.0 m]	<b>Thermal resistance</b> 0.00 m2KW	<b>Fire resistance</b> D	<b>Bending strength</b> n.p.d.	<b>Loss of pressure</b> Value corresponds with EN 13384
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Standard number	EN 14471																			
Temperature class	T120																			
Pressure class	H1 / P1																			
Resistance class when burn ashes	O																			
Class of resistance to condensate affects	W																			
Class of resistance to corrosion	2																			
Distance from flammable materials	O20																			
Placement	I																			
Class of reaction to fire	D																			
Coating class	L																			

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## PRODUCT INFORMATION

### Product information in accordance with EN 14471

#### Numbering legend:

Identification stated with a number (e.g.: \*.1) describes technical parameters, functional requirements and classifications according to relevant version of EN 14471.

Generally valid data (valid for almost all systems) have number \*.0

Hereby applies:

- \*.0: Version one-layer and concentric
- \*.1: Version one-layer
- \*.2: Version two-layer
- \*.3: Version two-layer
- \*.4: Version two-layer

Number	Technical properties, functional Requirements and classification In accordance to EN 14471	Values/classes	Other information, documentation
1.0	Dimension of inner rigid pipe (starr) Ø-Group 1: DN 60 DN 75 DN 80 DN 90 DN 100  Ø-Group 2: DN 110 DN 125 DN 160  Ø-Group 3: DN 200 DN 250 DN 315 DN 400  Dimension of inner flexible pipe (flex): Ø-Group 1: DN 63/60 DN 90/80  Ø-Group 2: DN 125/110 DN 145/125 DN 175/160  Ø-Group 3: DN 200/180 DN 250/220	inner diameter $D_i$  56 mm 71 mm 76 mm 85 mm 95 mm  105 mm 119 mm 153 mm  192 mm 242 mm 303 mm 386 mm  51 mm 76 mm  105 mm 125 mm 155 mm  180 mm 220 mm	for other dimensions see product drawing for number of drawing see appendix
1.2	Dimension of outer pipe Ø-Group 1: DN 60/100 DN 80/125 DN 100/150  Ø-Group 2: DN 110/160 DN 125/180	inner diameter $D_A$  100 mm 125 mm 150 mm  160 mm 180 mm	for other dimensions see product drawing for number of drawing see appendix

## OTHER INFORMATION

Number	Technical properties, functional Requirements and classification In accordance to EN 14471	Values/classes	Other information, documentation
1.3	Dimension of outer pipe Ø-Group 1: DN 60/100 DN 80/125 DN 100/150  Ø-Group 2: DN 110/160	inner diameter D <sub>A</sub>  100 mm 125 mm 150 mm  160 mm	for other dimensions see product drawing for number of drawing see appendix
1.4	Dimension of outer pipe Ø-Group 1: DN 60/100 DN 80/125 DN 100/150  Ø-Group 2: DN 110/160 DN 125/180 DN 160/225  Ø-Group 3: DN 200/300 DN 250/350 DN 315/400 DN 400/500	outer diameter D <sub>A</sub>  100 mm 125 mm 150 mm  160 mm 180 mm 225 mm  300 mm 350 mm 400 mm 500 mm	for other dimensions see product drawing for number of drawing see appendix
2.0	Dimension of inner pipe wall thickness (min.thickness): Ø-Group 1: DN 60 DN 75 DN 80 DN 90 DN 100  Ø-Group 2: DN 110 DN 125 DN 160  Ø-Group 3: DN 200 DN 250 DN 315 DN 400	  1.5 mm 1.5 mm 1.5 mm 1.5 mm 1.5 mm  2 mm 2.5 mm 3 mm  3.5 mm 3.5 mm 5 mm 6 mm	for other dimensions see product drawing for number of drawing see appendix
3.1	Outer pipe material: Quality: Namely wall thickness:	without outer pipe	
3.2	Outer pipe material: Quality:	plastic	
3.3	Outer pipe material: Quality: Namely wall thickness:	steel min. St1203 min. 0.6 mm	aluminium min. LM6 min. 0.6 mm

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Number	Technical properties, functional Requirements and classification In accordance to EN 14471	Values/classes	Other information, documentation
3.4	Outer pipe material: Quality: Namely wall thickness:	stainless steel min. 1.4301 min. 0.4 mm	
4.0	Thermal insulation:	not available	
5.0	Combustion gas routes according to EN 14241-1 T120 W 2 K2 I	EPDM reticulated Alfa Technik	see protocol of exam TÜV SÜD Industry Service GmbH, Munich, Germany
6.0	Compression strength: Rigid (starr) system Flexible (flex) system	max. installable vertical height 30 m 30 m	see protocol of exam TÜV SÜD Industry Service GmbH, Munich, Germany
7.0	Tensile loading:	n.p.d.	
8.1	Resistance to wind load	free height above last support - n.p.d.	see protocol of exam TÜV SÜD Industry Service GmbH, Munich, Germany
8.2	Resistance to wind load	free height above last support - n.p.d.	
8.3	Resistance to wind load	free height above last support - n.p.d.	
8.4	Resistance to wind load	free height above last support - 3 m	
9.0	Maximum slope:	n.p.d.	
10.0	Maximum slope:	n.p.d.	
11.0	Gas-tightness: Ø-Group 1: DN 60 DN 75 DN 80 DN 90 DN 100  Ø-Group 2: DN 110 DN 125 DN 160  Ø-Group 3: DN 200 DN 250 DN 315 DN 400	gas-tightness class  H1 H1 H1 H1 H1  H1 H1 H1  P1 P1 P1 P1	see protocol of exam TÜV SÜD Industry Service GmbH, Munich, Germany
12.1	Distance from flammable materials:	20 mm distance, comb.gas route air-cooled full distance	see protocol of exam TÜV SÜD Industry Service GmbH, Munich, Germany
12.2	Distance from flammable materials:	0 mm distance from outer pipe	see protocol of exam TÜV SÜD Industry Service GmbH, Munich, Germany
12.3	Distance from flammable materials:	0 mm distance from outer pipe	see protocol of exam TÜV SÜD Industry Service GmbH, Munich, Germany
12.4	Distance from flammable materials:	0 mm distance from outer pipe	see protocol of exam TÜV SÜD Industry Service GmbH, Munich, Germany
13.1	Touch protection:	place in flue area	
13.2	Touch protection:	not necessary	
13.3	Touch protection:	not necessary	
13.4	Touch protection:	not necessary	
14.0	Thermal resistance:	0.0 m <sup>2</sup> K/W	
15.0	Resistance to condensate effects:	W (system chimney is used in wet operation (as planned))	see protocol of exam TÜV SÜD Industry Service GmbH, Munich, Germany
16.0	Resistance to rain water leakage:	conditions are met	insulation is not available

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Number	Technical properties, functional Requirements and classification In accordance to EN 14471	Values/classes	Other information, documentation
17.0	Flow resistance in gas flue system sections:	according to EN 13384-1	
18.0	Flow resistance in gas flue system blocks:	according to EN 13384-1 table B.8	
19.0	Flow resistance in chimney extensions	n.p.d.	European standards do not exist yet, see relevant general building info, certificate of exam TÜV, Munich, Germany
20.0	Resistance to corrosion:	2 (resistance to condensate From oil and gas appliances)	see protocol of exam TÜV SÜD Industrie Service GmbH, Munich, Germany
21.0	Resistance to UV radiation:	according to EN 14471	free length of inner pipe is less than 2D and maximum of 0.4 m
22.0	Dangerous substances: Annex ZA	N/A	
23.0	Recycling:	according to ecological standards	
24.0	Assembly drawings:		see assembly manual
25.0	Assembly method:		see assembly manual
26.0	Assembly method of Sections and blocks:		see assembly manual
27.0	Direction of combustion gases flow:	of socket against the flow of the condensate	see assembly manual
28.0	Seal assembly:	installed by manufacturer	see assembly manual
29.0	Position of cleaning and inspection openings	according to relevant national regulations	see assembly manual
30.0	Chimney tag placement		see assembly manual
31.0	Determination/limitation for coating		see assembly manual
32.0	Min. distance between outer wall of the gas flue system and inner coating surface from non-flammable building material:	according to relevant national regulations (EN 1443)	see assembly manual
33.0	Tool designation for work with material on site: (e.g. cutting pipes)	tools suitable for working with relevant material only	see assembly manual
34.0	Conditions for gas flue system component storage:		see assembly manual
35.0	Cleaning methods, or equipment:	methods and equipment suitable for relevant materials only	see assembly manual
36.0	Condensation trap:	according to relevant national regulations (EN 12056-1)	see assembly manual
37.0	Safety precautions:		see assembly manual