

FIBRANgeo PS 80

Pre-formed Stonewool Pipe Section

Technical Data Sheet / February 2025



Description

FIBRANgeo PS pre-formed stonewool pipe section is a natural inorganic fibrous product that is industrially produced from molten rock spun into fibres, in accordance with European Standard EN 14303 (MW – Factory made Mineral Wool Insulation products).

Applications

Pre-formed Stonewool Pipe Section designed for thermal insulation, fire resistance and sound insulation applications in building equipment and industrial facilities.

- Ductwork
- HVAC systems (cold & hot air)
- Max. Service Temperature 650 °C



Advantages

- Excellent thermal insulation
- Non-combustible material with excellent fire resistance
- Excellent sound absorption and sound reduction
- Open honeycomb structure material with very low water vapour diffusion resistance that enhances the building element's breathability
- Excellent dimensional stability and durability
- Water repellent and non-hygroscopic
- Easy to handle, cut and install
- Natural, inorganic, odourless, chemically inert
- Recyclable, friendly to the environment and to the end user

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Packaging

Nominal pipe diameter (inches)	External pipe diameter (mm)	Internal FIBRANgeo PS diameter (mm)	FIBRANgeo PS thickness (mm)															
			25	30	40	50	60	70	80	90	100	110	120	130	140	150	160	
			External FIBRANgeo PS diameter (mm)															
1/8"	10.30	12	62	72	92	112												
1/4"	13.71	15	65	75	95	115												
3/8"	17.14	18	68	78	98	118	138											
1/2"	21.34	22	72	82	102	122	142											
3/4"	26.67	28	78	88	108	128	148											
1"	33.40	35	85	95	115	135	155	175	195									
1 & 1/4"	42.16	43	93	103	123	143	163	183	203									
1 & 1/2"	48.26	50		110	130	150	170	190	210									
2"	60.32	62		122	142	162	182	202	222	242	262							
2 & 1/2"	73.02	74		134	154	174	194	214	234	254	274	294	314					
3"	88.90	90		150	170	190	210	230	250	270	290	310	330					
3 & 1/2"	101.60	103		163	183	203	223	243	263	283	303	323	343					
4"	114.30	115		175	195	215	235	255	275	295	315	335	355					
5"	141.30	142		202	222	242	262	282	302	322	342	362	382					
6"	168.30	170		230	250	270	290	310	330	350	370	390	410	430	450	470	490	
8"	219.10	220		280	300	320	340	360	380	400	420	440	460	480	500	520	540	
10"	273.00	274		334	354	374	394	414	434	454	474	494	514	534	554	574	594	
12"	323.85	325			405	425	445	465	485	505	525	545	565	585	605	625	645	
14"	355.60	357				457	477	497	517	537	557	577	597	617	637	657	677	
16"	406.40	408				508	528	548	568	588	608	628	648	668	688	708	728	
18"	457.00	458				558	578	598	618	638	658	678	698	718	738	758	778	
20"	508.00	510				610	630	650	670	690	710	730	750	770	790	810	830	
22"	559.00	560				660	680	700	720	740	760	780	800	820	840	860	880	
24"	610.00	612				712	732	752	772	792	812	832	852	872	892	912	932	
26"	660.00	662				762	782	802	822	842	862	882	902	922	942	962	982	
28"	711.00	712				812	832	852	872	892	912	932	952	972	992	1012	1032	
30"	762.00	763				863	883	903	923	943	963	983	1003	1023	1043	1063	1083	
32"	813.00	814				914	934	954	974	994	1014	1034	1054	1074	1094	1114	1134	
34"	864.00	865				965	985	1005	1025	1045	1065	1085	1105	1125	1145	1165	1185	

Packed in cartons and pallets

FIBRANgeo PS pipe section length is 1000 mm.

Upon request, it can be produced on other dimensions

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Technical characteristics

Designation Code:

MW (Mineral Wool) - EN 14303 - T9(T8 if D0<150) - ST(+) 650 - WS1 - CL10

Technical Characteristics	Symbol EN 14303	Unit	Value	EN Standard
Declared thermal conductivity at 10 °C	λ_D	W/(mK)	0,036	EN ISO 8497 EN 13787
Maximum service temperature	ST(+100)650	°C	650	EN 14707
Nominal thickness	d_N	mm	25 - 160	EN 823
Fire classification	-	Class	A1 (Non-combustible)	EN 13501-1
Melting temperature	-	°C	>1000	DIN 4102-17
Specific heat capacity	c	kJ/kg*K	1,03	ISO 10456
Thickness tolerance	T	Class	T9 / T8 (if D0<150) (-3%, +5%)	EN 14303
Short term water absorption for 24 hours	WS	kg/m ²	<1	EN 1609
Content in water-dissolved chlorine	CL	mg/kg	<10 AS-quality for use over stainless steel.	EN 13468
Density, ρ	-	kg/m ³	80	EN 1602

Declared thermal conductivity λ_D

Mean Temperature	θ_M	°C	10	50	100	150	200	250	300	EN 14303
Declared Thermal Conductivity	$\lambda_{N,P}$	W/mK	0,036	0,042	0,051	0,062	0,075	0,090	0,110	EN ISO 8497 EN 13787



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