CI/SfB | (I) | 3/B | 5/H
June 2010

category	soundproofing
description	pipewrap plus – acoustic insulation
part code	A210

Made using 100% recycled felt

A210 (FT55AL) HIGH PERFORMANCE ACOUSTIC HVAC INSULATION (PIPEWRAP PLUS) is a soundproofing complex made up of a porous felt mat and our high performance 5kg/m² synthetic acoustic membrane, faced with reinforced aluminium foil.

This product increases the acoustic insulation of the duct element to which it is applied, basing its effect on the presence of an absorbent element and a high elasticity and high density insulating membrane.

Benefits

- Flexible.
- Easy handling and adaptable to uneven surfaces.
- Cold- and heat-resistant.
- Excellent ageing resistance.
- On surfaces in good condition, installation can be corrected without loss of adhesion.

Applications

- Soundproofing of PVC sewage ducts in buildings.
- Soundproofing of air conditioning ducts.
- Soundproofing of industrial pipes.
- Soundproofing of drainpipes and soilpipes (especially at the elbows).
- This product is also extremely useful as an underlay inside vehicles to reduce road noise. It should be applied with the foil side facing upwards and felt side facing down to the chassis.

Technical Specification

Product	A210 Pipewrap plus
Test	Value
Density (membrane)	1.9g/m^3
Pliability (UEAtc)	Does not break when bent at -10°C
Tensile Strength (UNE 103-281/6.6)	>30 N/cm^2 (membrane)
Elongation *UNE 104-281/6.6)	300%
Thermal Conductivity Coefficient	0.037 W/m°C (felt)

Packaging and Storage

Type	kg/m^2	Thickness	Packaging
FT55AL	5.5	12.6mm	5.5 x 1.2m rolls

Installation

Measure the development of the duct to be soundproofed, adding 5cm for overlaps.

Use scissors to cut the required quantity of FT 55 AL crosswise.

Wrap-tie duct in such a way that the textile felt is, as much as possible, in contact with the surface, starting at the lower part of the pipe.

Use a plastic flange for anchoring, every 20 cm.

To seal the overlaps, aluminium adhesive tape is used (part code A290). It is important that the joints are sealed to prevent diminishing of the insulation. Usually the treated pipe is boxed in with double plasterboard to finish.

Preparation

The substrate must be free from materials which can damage the product both during and after application, such as mortar rubble, etc.

Acoustic Performance

R_W 25 dB

Noise caused by the discharge of fluids in drainpipes is one of the commonest problems in residential and office buildings, due to low acoustic insulation provided by standard pipes built into walls and ceiling cavities.

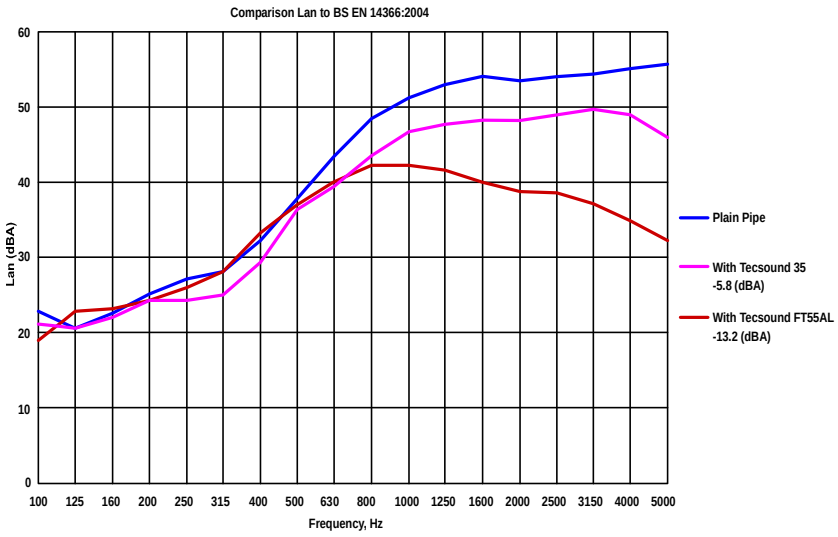
FT 55 AL is both a heavy insulating membrane and a sound absorber in one product, with the characteristics needed to provide an answer to this problem.

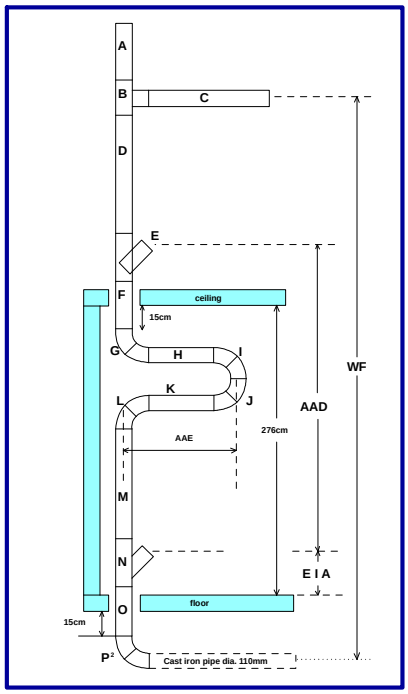
Acoustic Performance Data when tested to BS EN 14366:2004
Laboratory measurement of noise from waste water installations

COMPARAISON DES RELEVES ACOUSTIQUES SUR CHUTE DEVOYEE AVEC ISOLANTS ACOUSTIQUES TEXSA

frequency (Hz)	étalonnage (chute nue)	calcul intermédiaire	TECSOUND 35	calcul intermédiaire	TECSOUND FT 55AL	calcul intermédiaire
100	22.80	190.38	21.19	131.50	19.17	82.57
125	20.46	111.27	20.73	118.37	22.80	190.45
160	22.66	184.54	22.06	160.68	23.07	202.75
200	25.15	327.40	24.14	259.36	24.73	297.48
250	27.20	524.47	24.54	284.64	26.15	412.26
315	28.08	642.29	25.14	326.50	28.16	655.20
400	32.32	1706.27	29.26	843.36	33.33	2155.03
500	37.42	5519.69	36.31	4278.76	37.18	5226.89
630	43.53	22562.57	39.69	9305.82	40.35	10844.16
800	48.46	70219.08	43.61	22961.24	42.36	17229.89
1000	51.28	134358.15	46.49	44528.44	42.32	17053.48
1250	53.16	206974.03	47.70	58925.41	41.62	14518.69
1600	54.01	251834.26	48.29	67432.78	39.94	9855.68
2000	53.40	218628.77	48.24	66639.64	38.99	7918.87
2500	53.90	245259.77	49.08	80975.18	38.80	7584.02
3150	54.51	282318.15	49.65	92331.95	37.40	5500.08
4000	55.29	337685.74	49.11	81419.83	35.07	3211.42
5000	56.05	402657.65	46.18	41488.24	32.46	1760.03
	63.4 dB(A)		57.6 dB(A)		50.2 dB(A)	
	/étallonnage	gain	- 5.8 dB(A)	gain	- 13.2 dB(A)	

dates essais	15/12/2008	15/12/2008	19/12/2008





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