APHONFLEX

Vinyl Wall covering

For acoustic comfort

Quality system UNI EN

ISO 9002 CERTIFIED Treated SANITIZED

1. **SPECIFICATION DATA**

Product	:	Vinyl coated and expanded, fabric backed
Total weight	:	Kg. 1 per square meter - 49 oz per linear meter - (average).
Width	:	140 cm (nominal, +/- 7%).
Availably	:	From stock - 25m rolls -
Maintenance	:	Use a mild soap or detergent dissolved in warm water. Rinse with clear water after washing.
Color Fastness	:	At least grade 6 of ISO 102 - B02.
Flame Resistance	:	Aphonflex is highly flame resistant and when adhered to a suitable substrate complies with a class 0 and 1 (BS) and M1, (F.)

2. **ACOUSTIC COMFORT**
Aphonflex is a vinyl wallcovering constructed with differential layers that enable a perfect balance between absorption and reflection of sound waves inside a closed area and prevent at the same time ?cho effectsand stop the sound waves from outside.

3. **SOUND CORRECTION**.
Aphonflex complies with the requirements of sound reflection by creating a correct resonance and improving the acoustic effects inside the room. In other words Aphonflex absorbs the ?Fdisturbing effects and increases the purity of audible frequencies by improving their reception.

4. **SOUND PROOFING**
Aphonflex enables a high level, two-way soundproofing by stopping the noise from outside and preventing the sounds inside the room from escaping.

5. **SOUND ABSORPTION**
Due to the high level of sound absorption (30 - 60% of MF between 250 & 1000 Hz) Aphonflex complies with standards required in hospitals and schools, etc. The use of Aphonflex is recommended in areas with a high degree of noise where soundproofing is indispensable. The surface sound reflection (point 2) of Aphonflex prevents the ?cho effect(prolonged resonance) and enables the acoustic correction of areas where sound purity and diffusion are necessary: cinemas, auditorium, conference rooms, theatres, discotheques, recording rooms, etc. Also in this case the exceptional soundproof property of Aphonflex eliminates noises coming from outside.

6. **TEST**
Test carried out by International Electro technical Institute GALILEO FERRARIS in Torino Italy, proved good sound absorption properties, at the frequencies of a conversation as defined by the ?.I.L.standard (Speech Interference Level), between 500 and 2000 Hz.

7. **SECURITY AND HYGIENE**
Aphonflex is fire rated Class 1 - M 1- Resistant to microorganism.
High resistance to chemical attacks and perfectly washable with water and household detergents.

8. **COST EFFICIENT AND EASY TO HANG**

Experienced workers shall install Aphonflex as any vinyl wall covering wide width.
A perfectly primed wall is always necessary since the cushioning effect of Aphonflex will not absorb minor unevenness. Reverse hang, double cut, random match.

9. **PRESENTATION**

A comprehensive selection of texture and colors offers durable decorative solution to suit any requirements. On request custom made colors can be supplied.

_RESISTANCE of APHONFLEX vinyl wall covering to:

***Solvents*.** Methyl alcohol, Ethyl alcohol, Glycerin, Turpentine, Toluol, Naphtha: no hardening, no color variation.

Inorganic acids.. Sulphuric acid 10%, Hydrochloric acid 10%, Nitric acid: no major alteration a/o color variation, minor yellowing of light color-ways.

Lye wash. Sodium hypochlorite 2%, Active chlorine: no major alteration a/o color variation.

Alkalis. Sodium hydrate 10% solution, Potassium hydrate 10 & 50% sol., Ammonium hydrate 10 & 35% sol.: no major alteration a/o color variation.

***Household detergents*.** Water, Marseille soap 16% sol., Sodium carbonate 3%, Alcohol 95%, Ammonia, Hydrochloric acid 10%: no alteration.

Organic acids. Acetic acid 10%, Oxalic acid 30%, Citric acid conc., Boric acid conc.: no major alteration a/o color variation.

Oils. Olive oil, Mineral oil, Animal fat, Vegetable oil: no hardening, no color variation.

Seawater. Resistance to sea -water & sea- air: no alteration.

Oxidizers. Hydrogen peroxide 3% sol., Oxygen & Ozone: no hardening, no color variation.