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## **Certification referring Elt-Kraft vapour controlling layer (VCL) (AKA air barrier, vapour barrier)**

Since there is not only one certification (in Finnish building code or law) for using vapour controlling layer in buildings as vapour barrier we have tested all mandatory information for building materials with independent laboratories.

All technical values pass Finnish national requirements for structures and demands based on building physics. Key factor for engineering a wall or roof of the building in Finland is the value of vapour resistance. National value for engineering a wall or a roof is that vapour resistance value has to be five (5) times more in the warm side of the structure than the cold side. This ensures the structure is capable to “dry” efficiently. Elt-Kraft is engineered to give structure controlled vapour flow if necessary. Vapour controlling layer can also be considered as a vapour barrier in one sense. Technical values are anyway the most important issue with national building code which can vary by country, these values have to be checked locally by building professionals knowing local restrictions and demands about building physics referring whole wall and roof structure.

Yours sincerely,

Marko Suonpaa  
Eltete Ltd.

### **Attachment 1**

VTT (Finnish national research institute) certificate for 50 years thermal ageing test. Result no changes, pass.

### **Attachment 2**

VTT (Finnish national research institute) certificate for emissions of the product. Product category M1, highest class, no significant emissions. Test report in Finnish, translated by request.

### **Attachment 3**

KCL (Finland Central Laboratory, specialized paper based products) test for vapour transmission and strength of the product. Vapour transmission values can be translated to other units if necessary by request.