

## Screw holding capacity of Lantor Coremat®

### Introduction

A composite laminate often has to be attached to other components, for instance fixtures. Using screws is a very effective method. When screws are used it is important to know how they hold and how this can be compared to other materials. Lantor B.V. has tested the screw holding capacity of Coremat.

### Screw holding test

The screw holding capacity can be calculated by measuring the force which is needed to pull a screw out of a panel. Standard NEN3217 describes the test. The test results give the results for impregnated Coremat without glass skins.

### Results

The screw holding capacity of different materials is given in the table below.

Material	Screw holding capacity in N/mm
CSM 30% glass content, UP resin	35.0
CSM 20% glass content, UP resin	22.5
Plywood	6.5
PVC foam	0
PUR foam	0
Balsawood	0
Coremat XX, impregnated with UP resin	5.0
Coremat XM 10 mm, impregnated with UP resin	4.5
Coremat XM 10, after one month immersion in distilled water	4.7

### Conclusion

The screw holding capacity of Coremat is much better than the screw holding capacity of balsawood and foam. It is comparable to plywood. The glass skins of the Coremat will add to the screw holding capacity.

It is good practice to protect the hole with a little bit of resin. This is even more important when glass fibres have come free from the resin.

For further questions about the material, technical support and sample materials, please contact Lantor B.V. or your local distributor.

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