

A building panel with a surface layer (1) comprising a wood veneer, a wood fibre based core (2) and a sub-layer (3) between the surface layer (1) and the core (2). The sub-layer (3) comprises wood fibres (4) and a binder (5). The surface layer (1) has surface portions (6) comprising material from the sub-layer (3). The surface portions (6) comprising material from the sub-layer (3) extend into the wood veneer.