

Project Profile:
Award winning home on Dartmoor



***Rhepanol a natural choice for green roof
of RIBA award winning Dartmoor idyll***



Location	Manaton, Devon
Project	Award winning family home,
Client	Private individual
Architect	Peter Hall, Van der Steen Hall, Chagford
Main contractors	F I Joinery
Roofing Contractors	Western Counties
Roof Design & Supply	SIG Design & Technology
Type	Turf roof
Membrane	Rhepanol hg
Scope	250 square metres over three roofs

Green innovation was at the forefront of designs for a stunning, award-winning family home created at Manaton, in the heart of secluded Dartmoor.

Rhepanol hg was selected for the three distinctive green roofs that help to shape the character of the large, four bedroom Devon property, which incorporates a raft of measures to minimise its environmental impact.

Architect Peter Hall of Van der Steen Hall in Chagford was asked to create the permanent house on the site of the owner's well-used holiday bungalow. Materials from the bungalow were recycled and used in the new house.

He said: "We chose Rhepanol membrane and accessories for the complex and varied profiles of the roof planes – very different from the large, predominantly flat areas of typical grass-roofed office blocks – because of the help and advice we received from the accredited subcontractor and from the SIG Design & Technology representative."

The roof, which covers a total of 250sq m, was key to creating a home in harmony with its rural setting. It complements the unique ground-hugging lines of the house and outbuildings, which are set down into the sloping wooded landscape.

The roof make-up comprised natural, local meadow grass and site-excavated topsoil on cusped drainage layer/root barrier on Rhepanol hg with stainless steel gravel stop profile-adhered to membrane at perimeter and at intervals up steep slopes. The Rhepanol hg membrane was laid over softwood boarded roof, dressed into softwood eaves gutters and onto top of the fascia. (Rhepanol also forms fascia, cill and jambs of the window in the roof – see photo below.)



Said Peter Hall: "The natural materials, high insulation levels, thermal inertia and ground-hugging profile all contribute toward a very low environmental impact."

The Manaton house was awarded Devon's 2008 RIBA Arnold Sayers Housing Design award.

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