

Title (en)

WET FORMED MAT HAVING IMPROVED HOT WET TENSILE STRENGTHS

Title (de)

NASSGEFORMTE MATTE MIT VERBESSERTER BRUCHFESTIGKEIT BEI HITZE ODER NÄSSE

Title (fr)

MAT FORMÉ EN VOIE HUMIDE PRÉSENTANT DE MEILLEURES RÉSISTANCES À LA RUPTURE PAR TRACTION À CHAUD DANS DES CONDITIONS HUMIDES

Publication

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Application

EP 06801835 A 20060818

Priority

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- US 20822405 A 20050819

Abstract (en)

[origin: US2007039703A1] Wet-laid chopped strand glass mats for use in roofing applications that have improved hot wet tensile strengths are provided. The chopped strand mats are formed by the application or inclusion of at least one coupling agent to the chopped strand mat during a wet-laid mat forming process. The coupling agent may be added to the chopped strand mat as part of a two-part binder composition that includes a binder and at least one coupling agent. Alternatively, the coupling agent may be added directly to the chopped strand mat independent of the binder. As a further alternative, the coupling agent(s) may be added to the white water in the wet-laid mat forming process and incorporated into the formed glass mat via the glass fibers. The binder may be a modified urea-formaldehyde binder, a non-modified urea-formaldehyde binder, and/or a formaldehyde-free binder. The coupling agent(s) may be silane coupling agents and/or reactive siloxanes.

IPC 8 full level

C03C 25/40 (2006.01); **E04D 5/00** (2006.01)

CPC (source: EP KR US)

C03C 25/16 (2013.01 - EP US); **C03C 25/40** (2013.01 - KR); **D21H 13/40** (2013.01 - EP US); **E04D 5/00** (2013.01 - KR); **E04D 5/02** (2013.01 - EP US); **D21H 17/47** (2013.01 - EP US); **D21H 17/49** (2013.01 - EP US)

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