

Title (en)
STRAND PROFILE AND METHOD FOR PRODUCING A STRAND PROFILE

Title (de)
STRANGPROFIL UND VERFAHREN ZUM HERSTELLEN EINES STRANGPROFILS

Title (fr)
PROFILÉ EXTRUDÉ ET PROCÉDÉ DE FABRICATION D'UN PROFILÉ EXTRUDÉ

Publication
EP 3568288 A1 20191120 (DE)

Application
EP 18700155 A 20180110

Priority
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Abstract (en)
[origin: WO2018130561A1] What is proposed is a strand profile (10). The strand profile (10) extends in a direction of longitudinal extent (22), wherein the strand profile (10) has a first laminar structure (24) arranged around the direction of longitudinal extent (22) and a second laminar structure (32) surrounding the first laminar structure (24), wherein the first laminar structure (24) comprises a first plurality of layers (26), wherein each layer (26) of the first laminar structure (24) has multiple fibers (28), wherein the second laminar structure (32) comprises a second plurality of layers (34), wherein each layer (34) of the second laminar structure (32) has multiple fibers (36), wherein the fibers (28) of the first plurality of layers (26) and the fibers (36) of the second plurality of layers (34) respectively extend in directions of longitudinal extent (30, 38), wherein the directions of longitudinal extent (30) of the fibers (28) of the first plurality of layers (26) and of the fibers (36) of the second plurality of layers (34) are respectively oriented at an angle with a value in a range from 30° to 60°, and preferably in a range from 40° to 50°, relative to the direction of longitudinal extent (22) of the strand profile (10), wherein the fibers (28) of the first plurality of layers (26) extend relative to the direction of longitudinal extent (22) of the strand profile (10) such that, in the case of design torsion loading of the strand profile (10), they are loaded in longitudinal compression in their directions of longitudinal extent (30), wherein the fibers (36) of the second plurality of layers (34) extend relative to the direction of longitudinal extent (22) of the strand profile (10) such that, in the case of design torsion loading of the strand profile (10), they are loaded in longitudinal tension in their directions of longitudinal extent (38), wherein the directions of longitudinal extent (30) of the fibers (28) of adjacent layers (26) of the first plurality of layers (26) differ from one another by an angle with a value in a range from 0° to 10°, preferably 2° to 10° and more preferably 2° to 6°, wherein the directions of longitudinal extent (38) of the fibers (36) of adjacent layers (34) of the second plurality of layers (34) differ from one another by an angle with a value in a range from 0° to 10°, preferably 2° to 10° and more preferably 2° to 6°. Also proposed is a method for producing a strand profile (10).

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Citation (search report)
See references of WO 2018130561A1

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