

Technical Report

Activity:
BLADE MATERIAL PASSPORT

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LM 37.3 P2

Wind Turbine Blade Manufacturer: LM Wind Power (formerly LM Glasfiber)



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I. Introduction

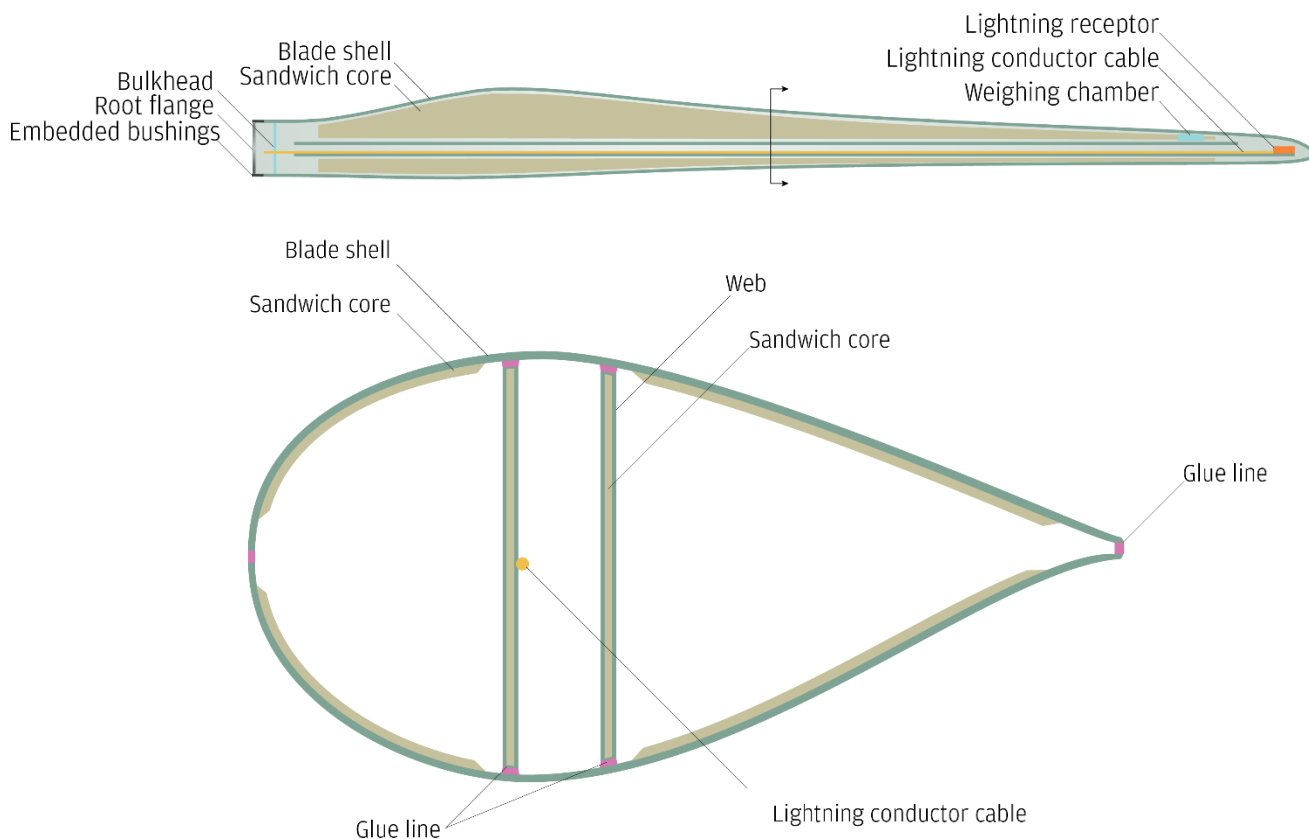
This blade material passport provides information to support end-of-life treatment of wind turbine blades. The material passport is intended for use by those who are active in disposal of end-of-life blades.

In addition to the information given in this material passport, please note that the blades contain detailed confidential information that is sensitive to the manufacturer and which you will get insight into in connection with the decommissioning of the blades. We kindly request you do not disclose any information not already stated in this material passport to any third party unless such third party has a need to know the information in connection with the decommissioning of the blades.

II. Blade Dimensions (General Data)

Blade mass	5590 kg +/- 3%
Blade length	372500 mm
Root diameter	1895 mm
Max chord	3097 mm
Max laminate thickness	110 mm

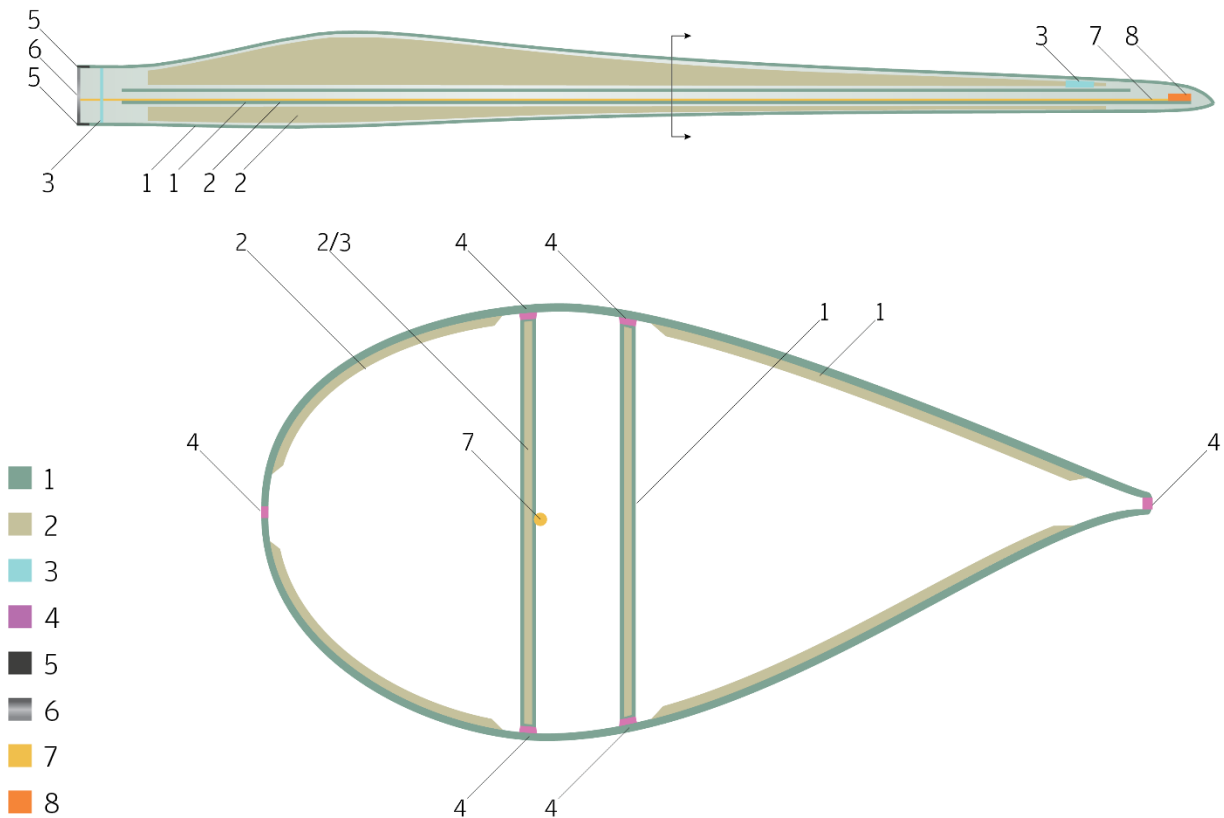
III. Blade Design: Components



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IV. Blade Materials



	Material	Blade part	Mass
1	Polyester gelcoat	Outer surface	~3%
1	Glass fiber	Blade shells, webs	~58 %
1	Polyester resin	Blade shells, webs	~28 %
2	Balsa wood	Blade shell sandwich core	~5 %
3	PVC foam	Ribs, bulkhead & webs sandwich core	>1 %
4	Vinylester adhesive	Glue line	~5 %
5	Chromium molybdenum steel alloy	Embedded bushings	~140 kg
6	Galvanized steel / Stainless steel	Root flange	~125 kg / ~20 kg
7	Copper	Lightning conductor cable	~40 kg
8	Alloyed metal	Lightning receptors	~0.5 kg

