



Blade Material Passport

Wind turbine blade type: NR45-3

Manufacturer: Nordex SE

Doc.: 9087538

Rev.: 00



I. Introduction (purpose/scope)

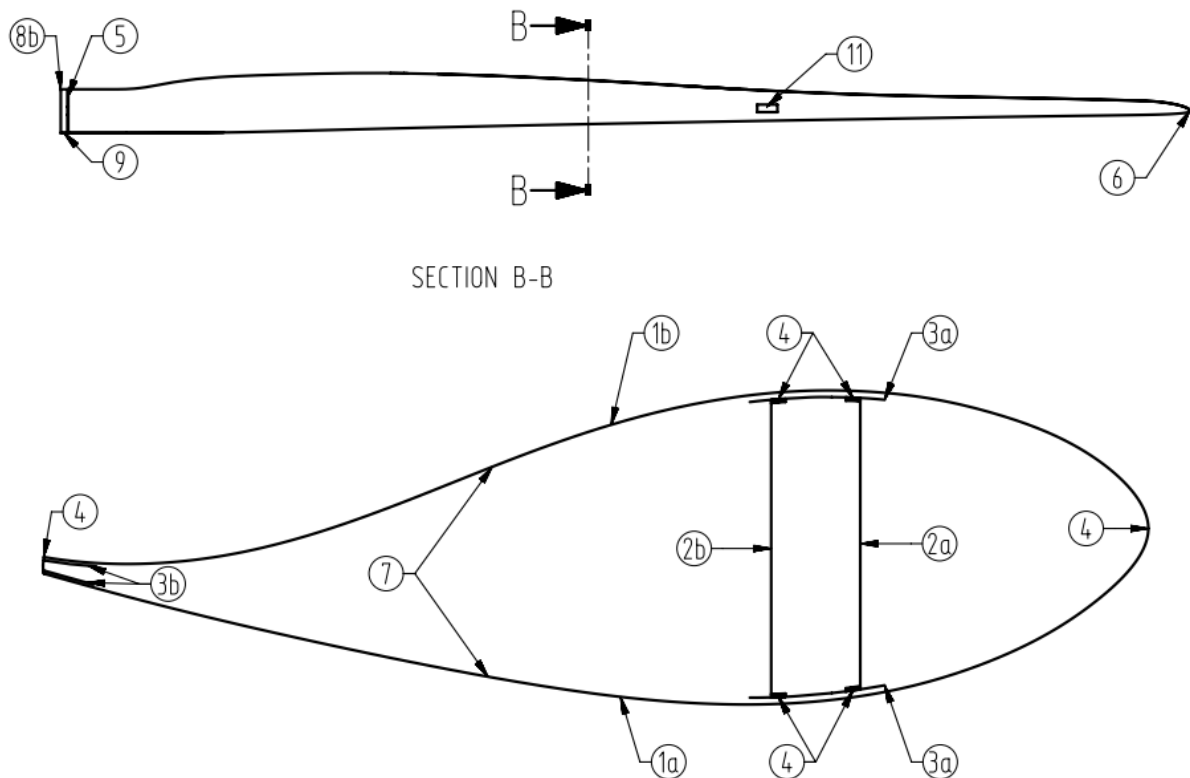
This Blade Material Passport (BMP) document provides information to support end-of-life treatment of wind turbine blades. The BMP document is intended for use by those who are active in disposal of end-of-life blades.

In addition to the information given in this BMP, 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 not to disclose any information not already stated in this BMP 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	10300 kg
Blade length	43800 mm
Root diameter	2400 mm
Max chord	3200 mm
Max thickness	100 mm

III. Blade design / components



- | | | |
|--------------------------------------|--------------------------|---|
| 1a: blade shell suction side | 3b: spar cap 2 | 8b: t-bolt connection technology |
| 1b: blade shell pressure side | 4: adhesive | 9: rain deflector |
| 2a: shear web 1 | 5: root close out | 10: labels |
| 2b: shear web 2 | 6: tip | 11: balancing chamber |
| 3a: spar cap 1 | 7: outer surface | |

IV. Blade materials

Material	Blade part (refer to diagram)	Mass (%)
Glass fiber	1a; 1b; 2a; 2b; 3a; 3b; 5; 11	~58
Epoxy resin	1a; 1b; 2a; 2b; 3a; 3b; 4; 5; 11	~31
PUR	7	~3
Balsa wood	1a; 1b	<1
PVC	1a; 1b; 2a; 2b; 10	~3
Steel	8b	~4
Aluminum	5; 6	<1
Copper	2b; 6	~1
Lead	11	<1
EPDM	9	<<1

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