

Customer	Supplier	Certificate number
Senvion GmbH Überseering 10 22297 Hamburg	Ria Blades,SA Parque Empresarial de Soza Rua da Barreira, nº25 Salgueiro 3840-346 Soza Portugal	IC nº 1172_2019
Article	Colour Code	Documents for construction Blade set
Rotor Blade: RE 45.2	RAL 7035	We confirm that the delivered blades are in accordance with Senvion Specifications and all other documents referred on Doc List 53186
Order nb: 4500455316		
Set NB: 1172		

Blades Numbers	Static Moment referring to the blade flange	Deviation from the average static moment of rotor blade [%]	Balancing masses					
			Total Weight (Kg)	Center of gravity COG Z[m]	Balancing Chamber Nº1 (Kg)	Balancing Chamber Nº2 (Kg)	Balancing Chamber Nº3 (Kg)	Extra weight (kg)
RB 3523	102072	0,01	7946	12,85	0	24	N/a	0
RB 3522	102026	0,06	7985	12,78	0	0	N/a	0
RB 3524	102155	0,07	7972	12,81	0	0	N/a	0
Average static moment of the rotor blade set [kgm]			102084					

Lightning protection results	Blades Numbers	RB 3523	RB 3522	RB 3524
	Receptor 1 -->SS= Z 37m (Min:9mΩ - Max:19mΩ)	18	18	16
	Receptor 2--> SS Z= 41m (Min:10mΩ - Max:21mΩ)	19	14	17
	Receptor 3 --> PS Z= 37m (Min:9mΩ - Max:19mΩ)	16	16	16
	Receptor 4 --> PS Z=41m (Min:10mΩ - Max:21mΩ)	16	15	19
	TIP (Min:11mΩ - Max:23mΩ)	17	15	19

Blade Numbers	Root Inserts Batch number	Root Inserts Supplier	M30 bolts Batch number	M30 bolts Supplier	JIG Control ECR_452046
RB 3523	KP31957002 KP33823006 KP33823005	KP Komponenter A/S	BUX	Kleinsorge Verbindungstechnik	OK
RB 3522	KP31957002 KP33822008 KP33822009 KP33823005	KP Komponenter A/S	BUX	Kleinsorge Verbindungstechnik	OK
RB 3524	KP31957002 KP33822009 KP33823006	KP Komponenter A/S	BUX	Kleinsorge Verbindungstechnik	OK

Date:	21-02-2019
Authorized signature:	Quality Assurance
Stamp:	  Guilherme Teixeira Quality Engineering Coordinator