

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 1175_2019
Article	Colour Code	Documents for construction Blade set
Rotor Blade: RE 45.2	Col 015	We confirm that the delivered blades are in accordance with Senvion Specifications and all other documents referred on Doc List 53882
Order nb: 4500463644		
Set NB: 1175		

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 3531	102657	0,03	8006	12,82	0	0	N/a	0
RB 3532	102608	0,01	8028	12,78	0	0	N/a	0
RB 3533	102601	0,02	7978	12,86	7	20	N/a	0
Average static moment of the rotor blade set [kgm]			102622					

Lightning protection results	Blades Numbers	RB 3531	RB 3532	RB 3533
	Receptor 1 -->SS= Z 37m (Min:9mΩ - Max:19mΩ)	13	16	17
	Receptor 2--> SS Z= 41m (Min:10mΩ - Max:21mΩ)	14	17	20
	Receptor 3 --> PS Z= 37m (Min:9mΩ - Max:19mΩ)	13	16	17
	Receptor 4 --> PS Z=41m (Min:10mΩ - Max:21mΩ)	14	17	17
	TIP (Min:11mΩ - Max:23mΩ)	15	19	18

Blade Numbers	Root Inserts Batch number	Root Inserts Supplier	M30 bolts Batch number	M30 bolts Supplier	JIG Control ECR_452046
RB 3531	KP33827001 KP33824001 KP33824005	KP Komponenter A/S	BUX	Kleinsorge Verbindungstechnik	OK
RB 3532	KP33827001 KP33824005	KP Komponenter A/S	BUX	Kleinsorge Verbindungstechnik	OK
RB 3533	KP33827001 KP33825004	KP Komponenter A/S	BUX	Kleinsorge Verbindungstechnik	OK

Date:	27-03-2019
Authorized signature:	Quality Assurance
Stamp:	  <small>Guilherme Teixeira Quality Engineering Coordinator</small>