

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 1177_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 53871
Order nb: 4500463647		
Set NB: 1177		

Blades Numbers	Static Moment referring to the blade flange	Deviation from the average static moment of rotor blade [%]	Balancing masses					
			Total Weigth (Kg)	Center of gravity COG Z[m]	Balancing Chamber Nº1 (Kg)	Balancing Chamber Nº2 (Kg)	Balancing Chamber Nº3 (Kg)	Extra weight (kg)
RB 3537	102433	0,06	7987	12,82	0	0	N/a	0
RB 3538	102397	0,03	7969	12,85	9	0	N/a	0
RB 3539	102280	0,09	7957	12,85	0	20	N/a	0
Average static moment of the rotor blade set [kgm]			102370					

Lightning protection results	Blades Numbers	RB 3537	RB 3538	RB 3539
	Receptor 1 -->SS= Z 37m (Min:9mΩ - Max:19mΩ)	17	14	14
	Receptor 2--> SS Z= 41m (Min:10mΩ - Max:21mΩ)	16	15	15
	Receptor 3 --> PS Z= 37m (Min:9mΩ - Max:19mΩ)	15	14	14
	Receptor 4 --> PS Z=41m (Min:10mΩ - Max:21mΩ)	16	15	15
	TIP (Min:11mΩ - Max:23mΩ)	17	16	16

Blade Numbers	Root Inserts Batch number	Root Inserts Supplier	M30 bolts Batch number	M30 bolts Supplier	JIG Control ECR_452046
RB 3537	KP33827001 KP33824007	KP Komponenter A/S	BUX	Kleinsorge Verbindungstechnik	OK
RB 3538	KP33827001 KP33824010	KP Komponenter A/S	BUX	Kleinsorge Verbindungstechnik	OK
RB 3539	KP33827001 KP33826003	KP Komponenter A/S	BUU	Kleinsorge Verbindungstechnik	OK

Date:	18-04-2019
Authorized signature:	Quality Assurance
Stamp:	  Guilherme Teixeira Quality Engineering Coordinator