



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 215_2019					
Article		Colour Code	Documents for construction Blade set					
Rotor Blade: RE 59.8 Order nb: 4500467817 Set NB: 215		COL 032	We confirm that the delivered blades are in accordance with Senvion Specifications and all other documents referred on Doc list__55034					
Blades Numbers	Static Moment referring to the blade flange [Kg.m]	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 647	231206	0,03	14169	16,32	6	0	0	0
RB 648	231339	0,03	14174	16,32	5	0	0	0
RB 649	231254	0,01	14152	16,34	7	0	0	0
Average static moment of the rotor blade set [kgm]			231266					
Lightning protection results	Blades Numbers		RB 647	RB 648	RB 649			
	Receptor 1 -->SS= Z 45m (Min:11mΩ - Max:23mΩ)		14	20	18			
	Receptor 2--> SS Z= 53m (Min:13mΩ - Max:26mΩ)		16	22	20			
	Receptor 3 --> PS Z= 45m (Min:11mΩ - Max:23mΩ)		14	18	18			
	Receptor 4 --> PS Z=53m (Min:13mΩ - Max:26mΩ)		16	23	20			
	TIP (Min:15mΩ - Max:29mΩ)		18	23	22			
Blade Numbers	Root Inserts Batch number	Root Inserts Supplier	M30 bolts Batch number	M30 bolts Supplier	Jig control			
RB 647	BYQ	Kleinsorge Verbindungstechnik	82859 BZU	Schraubenwerk Zerbst Kleinsorge Verbindungstechnik	OK			
RB 648	BYQ	Kleinsorge Verbindungstechnik	BZU	Kleinsorge Verbindungstechnik	OK			
RB 649	BYQ	Kleinsorge Verbindungstechnik	BZU	Kleinsorge Verbindungstechnik	OK			

Date:	03-05-2019
Authorized signature: <i>Quality Assurance</i>	Quality Assurance
Stamp:	  Guilherme Teixeira Quality Engineering Coordinator