



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 212_2019					
Article		Colour Code		Documents for construction Blade set					
Rotor Blade: RE 59.8 Order nb: 4500467817 Set NB: 212		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 638	232017	0,03	14226	16,31	0	0	0	0	
RB 639	231939	0,06	14187	16,35	16	0	0	0	
RB 640	232279	0,09	14193	16,37	0	0	0	0	
Average static moment of the rotor blade set [kgm]			232078						
Lightning protection results	Blades Numbers		RB 638	RB 639	RB 640				
	Receptor 1 -->SS= Z 45m (Min:11mΩ - Max:23mΩ)		17	21	23				
	Receptor 2--> SS Z= 53m (Min:13mΩ - Max:26mΩ)		20	23	24				
	Receptor 3 --> PS Z= 45m (Min:11mΩ - Max:23mΩ)		17	21	23				
	Receptor 4 --> PS Z=53m (Min:13mΩ - Max:26mΩ)		20	23	25				
	TIP (Min:15mΩ - Max:29mΩ)		22	25	24				
Blade Numbers	Root Inserts Batch number	Root Inserts Supplier	M30 bolts Batch number	M30 bolts Supplier	Jig control				
RB 638	BYQ BWO	Kleinsorge Verbindungstechnik	82859	Schraubenwerk Zerbst	OK				
RB 639	BYQ	Kleinsorge Verbindungstechnik	82859	Schraubenwerk Zerbst	OK				
RB 640	BXF BYQ	Kleinsorge Verbindungstechnik	82859	Schraubenwerk Zerbst	OK				

Date:	04-04-2019
Authorized signature: <i>Quality Assurance</i>	Quality Assurance
Stamp:	  Guilherme Teixeira Quality Engineering Coordinator