



Customer		Supplier		Certificate number					
<b>Senvion GmbH</b> Überseering 10 22297 Hamburg		<b>Ria Blades,SA</b> Parque Empresarial de Soza Rua da Barreira, nº25 Salgueiro 3840-346 Soza Portugal		<b>IC nº 211_2019</b>					
Article		Colour Code		Documents for construction Blade set					
<b>Rotor Blade: RE 59.8</b> <b>Order nb: 4500467817</b> <b>Set NB: 211</b>		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 635	231055	0,05	14155	16,32	0	15	30	0	
RB 637	231093	0,03	14174	16,30	5	0	0	0	
RB 636	231359	0,08	14184	16,31	0	0	0	0	
Average static moment of the rotor blade set [kgm]			231169						
Lightning protection results	Blades Numbers		RB 635	RB 637	RB 636				
	Receptor 1 -->SS= Z 45m (Min:11mΩ - Max:23mΩ)		16	14	19				
	Receptor 2--> SS Z= 53m (Min:13mΩ - Max:26mΩ)		18	16	21				
	Receptor 3 --> PS Z= 45m (Min:11mΩ - Max:23mΩ)		17	19	19				
	Receptor 4 --> PS Z=53m (Min:13mΩ - Max:26mΩ)		20	16	21				
	TIP (Min:15mΩ - Max:29mΩ)		20	18	23				
Blade Numbers	Root Inserts Batch number	Root Inserts Supplier	M30 bolts Batch number	M30 bolts Supplier	Jig control				
RB 635	BWO BWL	Kleinsorge Verbindungstechnik	BXL	Kleinsorge Verbindungstechnik	OK				
RB 637	BYQ BWO BVC BXG	Kleinsorge Verbindungstechnik	BXL	Kleinsorge Verbindungstechnik	OK				
RB 636	BXG BXF	Kleinsorge Verbindungstechnik	82859 BXL	Schraubenwerk Zerbst Kleinsorge Verbindungstechnik	OK				

Date:	02-04-2019
Authorized signature: <i>Quality Assurance</i>	Quality Assurance
Stamp:	  Guilherme Teixeira Quality Engineering Coordinator