



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 209_2019</b>					
Article		Colour Code	Documents for construction Blade set					
<b>Rotor Blade: RE 59.8</b> <b>Order nb: 4500456519</b> <b>Set NB: 209</b>		COL 032	We confirm that the delivered blades are in accordance with Senvion Specifications and all other documents referred on Doc list__54693					
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 629	231314	0,00	14223	16,26	12	0	0	0
RB 630	231292	0,01	14212	16,27	0	0	30	0
RB 631	231333	0,01	14212	16,28	0	0	30	0
Average static moment of the rotor blade set [kgm]			231313					
Lightning protection results	Blades Numbers	RB 629	RB 630	RB 631				
	Receptor 1 -->SS= Z 45m (Min:11mΩ - Max:23mΩ)	20	19	17				
	Receptor 2--> SS Z= 53m (Min:13mΩ - Max:26mΩ)	22	19	19				
	Receptor 3 --> PS Z= 45m (Min:11mΩ - Max:23mΩ)	21	15	17				
	Receptor 4 --> PS Z=53m (Min:13mΩ - Max:26mΩ)	23	17	19				
	TIP (Min:15mΩ - Max:29mΩ)	24	19	20				
Blade Numbers	Root Inserts Batch number	Root Inserts Supplier	M30 bolts Batch number	M30 bolts Supplier	Jig control			
RB 629	BWO BWJ BVC 10162260D 11275260D 10262260D	Kleinsorge Verbindungstechnik Heinicke	BXL	Kleinsorge Verbindungstechnik	OK			
RB 630	BWO BYQ	Kleinsorge Verbindungstechnik	BXL	Kleinsorge Verbindungstechnik	OK			
RB 631	BWO	Kleinsorge Verbindungstechnik	BXL	Kleinsorge Verbindungstechnik	OK			

Date:	26-03-2019
Authorized signature: <i>Quality Assurance</i>	Quality Assurance
Stamp:	  Guilherme Teixeira Quality Engineering Coordinator