



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 214_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: 214</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 644	231218	0,02	14175	16,31	0	0	0	0	
RB 645	231144	0,05	14179	16,30	0	0	0	0	
RB 646	231450	0,08	14168	16,34	0	0	30	0	
Average static moment of the rotor blade set [kgm]			231271						
Lightning protection results	Blades Numbers		RB 644	RB 645	RB 646				
	Receptor 1 -->SS= Z 45m (Min:11mΩ - Max:23mΩ)		17	17	17				
	Receptor 2--> SS Z= 53m (Min:13mΩ - Max:26mΩ)		19	19	19				
	Receptor 3 --> PS Z= 45m (Min:11mΩ - Max:23mΩ)		17	17	17				
	Receptor 4 --> PS Z=53m (Min:13mΩ - Max:26mΩ)		19	20	19				
	TIP (Min:15mΩ - Max:29mΩ)		26	21	20				
Blade Numbers	Root Inserts Batch number	Root Inserts Supplier	M30 bolts Batch number	M30 bolts Supplier	Jig control				
RB 644	BYQ	Kleinsorge Verbindungstechnik	82859	Schraubenwerk Zerbst	OK				
RB 645	BYQ	Kleinsorge Verbindungstechnik	82859	Schraubenwerk Zerbst	OK				
RB 646	BYQ	Kleinsorge Verbindungstechnik	82859	Schraubenwerk Zerbst	OK				

Date:	16-04-2019
Authorized signature: <i>Quality Assurance</i>	Quality Assurance
Stamp:	  Guilherme Teixeira Quality Engineering Coordinator