



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 210_2019					
Article		Colour Code	Documents for construction Blade set					
Rotor Blade: RE 59.8 Order nb: 4500456519 Set NB: 210		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 632	231256	0,03	14194	16,29	0	0	29	0
RB 633	231174	0,01	14153	16,33	0	12	30	0
RB 634	231144	0,02	14138	16,35	0	22	30	0
Average static moment of the rotor blade set [kgm]			231191					
Lightning protection results	Blades Numbers		RB 632	RB 633	RB 634			
	Receptor 1 -->SS= Z 45m (Min:11mΩ - Max:23mΩ)		18	18	16			
	Receptor 2--> SS Z= 53m (Min:13mΩ - Max:26mΩ)		21	20	18			
	Receptor 3 --> PS Z= 45m (Min:11mΩ - Max:23mΩ)		18	17	16			
	Receptor 4 --> PS Z=53m (Min:13mΩ - Max:26mΩ)		21	20	19			
	TIP (Min:15mΩ - Max:29mΩ)		23	21	20			
Blade Numbers	Root Inserts Batch number	Root Inserts Supplier	M30 bolts Batch number	M30 bolts Supplier	Jig control			
RB 632	BOY BWO	Kleinsorge Verbindungstechnik	BXL 82859	Kleinsorge Verbindungstechnik Schraubenwerk Zerbst	OK			
RB 633	BOY BWO	Kleinsorge Verbindungstechnik	82859	Schraubenwerk Zerbst	OK			
RB 634	BWL BYQ	Kleinsorge Verbindungstechnik	82859	Schraubenwerk Zerbst	OK			

Date:	28-03-2019
Authorized signature: <i>Quality Assurance</i>	Quality Assurance
Stamp:	  Guilherme Teixeira Quality Engineering Coordinator