

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 021_2018</b>
Article	Colour Code	Documents for construction Blade set
<b>Rotor Blade: RE 68.5</b>	RAL 7035	Doc list 44480
<b>Order nb: 4500414211</b>		
<b>Set NB: 021</b>		

Blades Numbers	Static Moment referring to the blade flange	Deviation from the average static moment of rotor blade [%]	Balancing masses						
			Total Weigh (Kg)	Center of gravity COG Z[m]	Balancing Chamber Nº1 (Kg)	Balancing Chamber Nº2 (Kg)	Balancing Chamber Nº3 (Kg)	Balancing Chamber Nº4 (Kg)	Extra weight (kg)
RB 062	412686	0,05	20490	20,14	0	0	24	31	0
RB 063	412780	0,03	20537	20,10	0	8	25	31	0
RB 064	413233	0,08	20542	20,12	2	25	25	31	0
Average static moment of the rotor blade set [kgm]			412900						

Lightning protection results	Blades Numbers	RB 062	RB 063	RB 064
	Receptor 1 --> SS Z= 63,5m (Min:22mΩ - Max:41mΩ)	26	27	26
	Receptor 2 --> SS Z=66,5m (Min:23mΩ - Max:43mΩ)	27	29	27
	Receptor 3 --> SS Z=67,5m (Min:24mΩ - Max:44mΩ)	27	29	27
	Receptor 4 --> PS Z=63,5m (Min:22mΩ - Max:41mΩ)	26	28	26
	Receptor 5 -->PS= Z66,5m (Min23mΩ - Max:43mΩ)	27	29	33
	Receptor 6--> PS Z= 67,5m (Min:24mΩ - Max:44mΩ)	27	29	29
	Tip Z68,5 (Min:24mΩ - Max:44mΩ)	27	29	33

Blade Numbers	Root Inserts Batch number	Root Inserts Supplier	M30 bolts Batch number	M30 bolts Supplier	Jig control
RB 062	BKM	Kleinsorge Verbindungstechnik	BMO BOW	Kleinsorge Verbindungstechnik	OK
RB 063	BKM	Kleinsorge Verbindungstechnik	BOM	Kleinsorge Verbindungstechnik	OK
RB 064	BNH BLI BJX	Kleinsorge Verbindungstechnik	BPX BIT BIM	Kleinsorge Verbindungstechnik	OK

Date:	<b>27-03-2018</b>
Authorized signature: <i>Quality Assurance</i>	<b>Guilherme Teixeira</b>
Stamp:	  Guilherme Teixeira Quality Engineering Coordinator