

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 012_2019
Article	Colour Code	Documents for construction Blade set
Rotor Blade: RE 68.5 MK1	RAL 7035	We confirm that the delivered blade are in accordance with Senvion Specifications and all other documents referred on Doc list 52953
Order nb: 4500457104		
SET NB: 012		

Blade Number	Static Moment referring to the blade flange	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)	Balancing Chamber Nº4 (Kg)	Extra weight (kg)
RB 035	345046	0,08	17961	19,21	0	6	25	31	0
RB 036	344655	0,03	17987	19,16	0	20	25	31	0
RB 037	344615	0,05	17967	19,18	0	21	25	31	0
Average static moment of the rotor blade set [kgm]			344772						

Lightning protection results	Blade Number	RB 035	RB 036	RB 037
	Receptor 1 --> SS Z= 63,15m (Min:22mΩ - Max:41mΩ)	38	31	31
	Receptor 2 --> SS Z=66,20m (Min:23mΩ - Max:43mΩ)	38	32	32
	Receptor 3 --> SS Z=67,24m (Min:24mΩ - Max:44mΩ)	40	33	32
	Receptor 4 --> PS Z=63,15m (Min:22mΩ - Max:41mΩ)	26	31	30
	Receptor 5 -->PS= Z66,20m (Min23mΩ - Max:43mΩ)	27	32	32
	Receptor 6--> PS Z= 67,24m (Min:24mΩ - Max:44mΩ)	27	32	32
	Tip Z68,5 (Min:24mΩ - Max:44mΩ)	40	32	33

Blade Numbers	Root Inserts Batch number	Root Inserts Supplier	M30 bolts Batch number	M30 bolts Supplier	Jig control
RB 035	BUS BUR BXF	Kleinsorge Verbindungstechnik	BVF	Kleinsorge Verbindungstechnik	OK
RB 036	BUR BUS	Kleinsorge Verbindungstechnik	BVF	Kleinsorge Verbindungstechnik	OK
RB 037	BUR BUS	Kleinsorge Verbindungstechnik	BVF	Kleinsorge Verbindungstechnik	OK

Date:	01-02-2019
Authorized signature: <i>Quality Assurance</i>	Guilherme Teixeira
Stamp:	  <small>Guilherme Teixeira Quality Engineering Coordinator</small>