BULLONERIA VILLA S.p.A.

CAPITALE SOC. EURO 120.000 INT. VERSATO

20151 MILANO - VIA GALLARATE, 141

Ufficio vendite: - Stab.: Tel. (02) 38006529 -fax (02)3084962



INSPECTION CERTIFICATE According to (EN 10204:2005) 3.1

Nr. **121133** Data/Date **01/10/12**

Amministrazione: Telefono (02) 38006356 - E-Mail: info@bulloneriavilla.com

Vostro ord./Your order

121865-C2F11A

Data/Date 08/08/2012

Ns. Bolla/Delivery note

dr.

122129

Data/Date 01/10/2012

Cliente/Customer

DESMET BALLESTRA S.p.A.

VIA PORTALUPPI,17

20138 MILANO

Materiali e valori conformi alle norme ASME

Materials and values in conformity with standards ASME

DESTINAZIONE MATERIALE: NIGERIA

Pos/item.	Materiale/Materials	Descrizione/Description	Misure/sizes	Quantità/Quantity
1)	ASME SA193/B7	TIRANTI/STUD BOLT	5/8" unc X 80-95	NR. 5 / 5
1)	ASME SA193/B7	TIRANTI/STUD BOLT	5/8" unc X 110	NR. 9
2)	ASME SA193/B7	VITI T.E./SCREWS	1/2" unc X 30	NR. 9
3)	ASME SA193/B7	VITI T.E./SCREWS	5/8" unc X 40-45	NR. 4 / 31
4)	ASME SA194/2H	DADI E./HEX.NUTS	5/8" unc	NR. 38

TRATT./TREATMENT

ZINC./ZINC-PLATED - CR3

ANALISI CHIMICA/CHEMICAL ANALYSIS

		%C	%Mn	%Si	%P	%S	%Ni	%Cr	%Mo	%AI
Req.	Min	0,370	0,650	0,150				0,750	0,150	
Req.	Max	0,490	1,100	0,350	0,035	0,040		1,200	0,250	
p/i	Colata/heat									
1)	230087	0,405	0,780	0,220	0,014	0,021		1,050	0,200	
2)	AG2189	0,435	0,770	0,240	0,008	0,025		1,040	0,170	
3)	138123	0,430	0,800	0,230	0,009	0,021		1,040	0,180	
Req.	Min	0,400							ŀ	
Req.	Max		1,000	0,400	0,040	0,050				
4)	AH2284	0,450	0,650	0,230	0,017	0,015				
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CARATTERISTICHE MECCANICHE/MECHANICAL PROPERTIES

	R	R 0.2	Α	Z	НВ	HB*	Impact test KV	Proof. L=
	Mpa – N/mm ₂	Mpa – N/mm ₂	%	%	Min. Max	24 h	-27JMIN-101°C	
Required	860	720	16	50	321			
Pos/item								
[1)	946	766	21,7	62,7	285			
2)	955	818	19,0	58,0	280			
(3)	921	751	17,0	56,0	295			
					Min. Max			
'					248-327			
4)					270/278	240		POSIT
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Note: VISUAL DIMENSIONAL TEST = SATISFACTORY Heat treat. Quenched Tempered

BULLONERIA VILLA S.p.A. Quality control

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We hereby certify that materials described in this certificate have been tested and comply with the terms of the order and of specification. *= hardness heat treatment at 540/590°C

BULLONERIA VILLA S.p.A.

CAPITALE SOC. EURO 120.000 INT. VERSATO

20151 MILANO - VIA GALLARATE, 141

Ufficio vendite: - Stab.: Tel. (02) 38006529 -fax (02)3084962

ISO 9001:2008--Cert.n.3213/2

INSPECTION CERTIFICATE According to (EN 10204:2005) 3.1

Nr. 121132 Data/Date 01/10/12

Amministrazione: Telefono (02) 38006356 - E-Mail: info@bulloneriavilla.com www.bulloneriavilla.com

Vostro ord./Your order

Data/Date 08/08/2012

121865-C2F11A

Ns. Bolla/Delivery note

122129

Data/Date 01/10/2012

Cliente/Customer

DESMET BALLESTRA S.p.A.

VIA PORTALUPPI,17 20138 MILANO

Materiali e valori conformi alle norme ASME

Materials and values in conformity with standards ASME

DESTINAZIONE MATERIALE: NIGERIA

Pos/item.	Materiale/Materials	Descrizione/Description	Misure/sizes	Quantità/Quantity
1)	ASME SA193/B7	TIRANTI/STUD BOLT	1/2" unc X 70	NR. 6
2)	ASME SA193/B7	TIRANTI/STUD BOLT	5/8" unc X 85-95	NR. 9 / 9
3)	ASME SA193/B7	VITI T.E./SCREWS	5/8" unc X 40	NR. 4
3)	ASME SA193/B7	VITI T.E./SCREWS	5/8" unc X 45	NR. 9
4)	ASME SA194/2H	DADI E./HEX.NUTS	1/2" unc	NR. 12
5)	ASME SA194/2H	DADI E./HEX.NUTS	5/8" unc	NR. 36

ANALISI CHIMICA/CHEMICAL ANALYSIS

		%C	%Mn	%Si	%P	%S	%Ni	%Cr	%Мо	%AI
Req.	Min	0,370	0,650	0,150				0,750	0,150	
Req.	Max	0,490	1,100	0,350	0,035	0,040		1,200	0,250	
p/i	Colata/heat									•
1)	AG2189	0,435	0,770	0,240	0,008	0,025		1,040	0,170	
2)	230087	0,405	0,780	0,220	0,014	0,021		1,050	0,200	
3)	138123	0,430	0,800	0,230	0,009	0,021		1,040	0,180	
Req.	Min	0,400								
Req.	Max		1,000	0,400	0,040	0,050		1		
4)	AG5433	0,450	0,690	0,280	0,016	0,014				
5)	AH2284	0,450	0,650	0,230	0,017	0,015				

CARATTERISTICHE MECCANICHE/MECHANICAL PROPERTIES

		R	R 0.2	Α	Z	НВ	HB*	Impact test KV	Proof. L=
		Mpa - N/mm2	Mpa – N/mm ₂	%	%	Min. Max	24 h	-27JMIN-101°C	
	Required	860	720	16	50	321			
	Pos/item								
1)		967	778	20	62,5	292			
2)		946	766	21,7	62,7	285			
3)		921	751	17,0	56,0	295			
•						Min. Max			
						248-327			
4)						300/303	270		POSIT
5)						270/278	240		POSIT

Note: VISUAL DIMENSIONAL TEST = SATISFACTORY Heat treat. Quenched Tempered

BULLONERIA VILLA S.p.A.

Quality control

hereby certify that materials described in this certificate have been tested and comply with the terms of the order and of specification. * = hardness heat treatment at 540/590°C

