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. 110174 Data/Date 18/02/11

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

Vostro ord./Your order

Nr.

Data/Date

102153 02/12/2010 Ns. Bolla/Delivery note

110312 Nr

Data/Date 17/02/2011

Cliente/Customer

DESMET BALLESTRA S.p.A. VIA PORTALUPPI,17

20138 MILANO

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Materiali e valori conformi alle norme ASTM Materials and values in conformity with standards ASTM

Pos/item.	Materiale/Materials	Descrizione/Description	Misure/sizes	Quantità/Quantity
1)	ASTM A193/B7	TIRANTI/STUD BOLTS	1/2"unc X 75	NR. 67
2)	ASTM A193/B7	TIRANTI/STUD BOLTS	5/8" unc X 100	NR. 9
2)	ASTM A193/B7	TIRANTI/STUD BOLTS	5/8" unc X 110	NR. 76
3)	ASTM A193/B7	TIRANTI/STUD BOLTS	3/4" unc X 115	NR. 17
4)	ASTM A193/B7	TIRANTI/STUD BOLTS	7/8" unc X 140	NR. 12
5)	ASTM A193/B7	VITI T.E./SCREWS	5/8" unc X 40	NR. 17

TRATT./TREATMENT

ZINC./HOT DIP.GALVANIZED ASTM A153

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)	AF0689	0,415	0,770	0,210	0,013	0,026		1,010	0,170	
2)	AF0690	0,425	0,780	0,230		0,026		1,050	0,170	
3)	406148	0,418	0,870	0,249	0,017	0,022		1,050	0,171	
4)	39106	0,380	0,810	0,240	0,017	0,023		1,020	0,190	
5)	30779	0,415	0,740	0,260	0,011	0,022		1,040	0,190	

CARATTERISTICHE MECCANICHE/MECHANICAL PROPERTIES

	R	R 0.2	Α	Z	НВ	HB*	Impact test KV	Proof. L=
	Mpa – N/mm²	Mpa – N/mm²	%	%	Min. Max	24 h	-27JMIN-101°C	
Required	860	720	16	50		321		
Pos/item								
1)	1017	799	20,5	59,3		295		
<u>2</u>)	996	1	21,8	59,8		299	l .	
-, 3)	992		19,4	60,5		298		
)	978	819	16,3	59,2		295		
5)	968	743	16	51,8		287		
-							·	
	1			1				

Note: VISUAL DIMENSIONAL TEST =

SATISFACTORY

Heat treat. Quenched Tempered

BULLONERIA VILLA S.p.A. Quality control

Macroetch examination according to ASTM E381-01 Carried out on ferritic steels bars ASTM A193-A194

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



INSPECTION CERTIFICATE According to (EN 10204:2005) 3.1

Nr. **110175** Data/Date **18/02/11**

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

Vostro ord./Your order

Nr. **102153**Data/Date **02/12/2010**

Ns. Bolla/Delivery note

Nr. 110312

Data/Date 17/02/2011

Cliente/Customer

DESMET BALLESTRA S.p.A.

VIA PORTALUPPI,17 20138 MILANO

Materiali e valori conformi alle norme ASTM Materials and values in conformity with standards ASTM

Pos/item.	Materiale/Materials	Descrizione/Description	Misure/sizes	Quantità/Quantity
1)	ASTM A193/B7	TIRANTI/STUD BOLTS	1/2"unc X 65	NR. 7
1)	ASTM A193/B7	TIRANTI/STUD BOLTS	1/2"unc X 70	NR. 10
1)	ASTM A193/B7	TIRANTI/STUD BOLTS	1/2"unc X 75	NR. 4
2)	ASTM A193/B7	TIRANTI/STUD BOLTS	3/4" unc X 100	NR. 4
2)	ASTM A193/B7	TIRANTI/STUD BOLTS	3/4" unc X 110	NR. 8
3)	ASTM A194/2H	DADI E./HEX.NUTS	1/2" unc	NR. 42
4)	ASTM A194/2H	DADI E./HEX.NUTS	3/4" unc	NR. 24

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)	AF0689	0,415	0,770	0,210	0,013	0,026		1,010	0,170	
2)	406148	0,418	0,870	0,249	0,017	0,022		1,050	0,171	
3)	28687	0,450	0,720	0,230	0,017	0,034				
4)	32110	0,440	0,750	0,240	0,008	0,034				
						ŀ				

CARATTERISTICHE MECCANICHE/MECHANICAL PROPERTIES

		R	R 0.2	Α	Z	НВ	HB*	Impact test KV	Proof. L=
		Mpa – N/mm²	Mpa – N/mm²	%	%	Min. Max	24 h	-27JMIN-101°C	
	Required	860	720	16	50		321	r	
	Pos/item								
1)		1017	799	20,5	59,3		295		
2)		992	784	19,4	60,5		298		
3)							277		POSIT
4)							281		POSIT

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

BULLONERIA VILLA S.p.A. Quality control

Macroetch examination according to ASTM E381-01 Carried out on ferritic steels bars ASTM A193-A194

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



INSPECTION CERTIFICATE According to (EN 10204:2005) 3.1

Nr. 110176 Data/Date 18/02/11

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

Vostro ord./Your order

Nr.

Ns. Bolla/Delivery note

Nr.

110312

Data/Date 02/12/2010

102153

Data/Date 17/02/2011

Cliente/Customer

DESMET BALLESTRA S.p.A.

VIA PORTALUPPI,17

20138 MILANO

Materiali e valori conformi alle norme ASTM Materials and values in conformity with standards ASTM

Pos/item.	Materiale/Materials	Descrizione/Description	Misure/sizes	Quantità/Quantity
1)	ASTM A194/2H	DADI E./HEX.NUTS	1/2" unc	NR. 134
2)	ASTM A194/2H	DADI E./HEX.NUTS	5/8" unc	NR. 170
3)	ASTM A194/2H	DADI E./HEX.NUTS	3/4" unc	NR. 34
4)	ASTM A194/2H	DADI E./HEX.NUTS	7/8" unc	NR. 24

TRATT./TREATMENT

ZINC./HOT DIP.GALVANIZED ASTM A153

ANALISI CHIMICA/CHEMICAL ANALYSIS

		%C	%Mn	%Si	%P	%S	%Ni	%Cr	%Mo	%Al
Req.	Min	0,400								
Req.	Max	:	1,000	0,400	0,04	0,050				
p/i	Colata/heat									
1) 2) 3) 4)	28687 32111 32110 23053	0,450 0,440 0,440 0,430	0,720 0,710 0,750 0,728	0,230 0,200 0,240 0,212	0,007 0,008	0,034				

CARATTERISTICHE MECCANICHE/MECHANICAL PROPERTIES

	R	R 0.2	Α	Z	НВ	HB*	Impact test KV	Proof. L=
	Mpa – N/mm²	Mpa – N/mm²	%	%	Min. Max	24 h	-27JMIN-101°C	
Required						321		
Pos/item								
4)					306/308	277		
1 <i>)</i>					268/285	250		
2) 3)					200/200	281		POSIT
3) 4)						271		POSIT
T),								

Note: VISUAL DIMENSIONAL TEST =

SATISFACTORY

Heat treat. Quenched Tempered

BULLONERIA VILLA S.p.A. Quality control

Macroetch examination according to ASTM E381-01 Carried out on ferritic steels bars ASTM A193-A194

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