РЕЗУЛТАТ ОТ ТЕСТ

"БРАЙКО" ЕООД

ул. "Зайчар" №117 1309 София България





1797 София, ул. "Лъчезар Станчев" №9 (ул. "165" №3) тел./факс (02) 8707070; (02) 8710086; (02) 8700152 e-mail: ckl.montagi@abv.bg; ckl@montagi.com; www: montagi.com

ПРОТОКОЛ № 448 / 21.05.2014 г. РАЗРУШАВАЩ КОНТРОЛ

_			400-1-124-1-124		-	DATE NAME OF THE PARTY OF THE P		man, novem						
ВЪ	зложі	ИТЕЛ: "Бр	райко" Е	ООД –	гр. С	офия,	, ул. "Обор	ЭИЦ	це" № 37				та на контрол .05.2014 г.	
ОБ	ЕКТ: Из	питване на	опън на	окруп	нено	разгл	побяемо ст	ьел	инение от					
пла	нки с про	филиран зт	ьбен гре	бен и б	олто	ва вр	ъзка							
ПО	ДОБЕК	Т: Сборка	5 компле	екта ра	зглов	бяеми	1 Съелинен	RNF	без покрити	ρ				
AU-	ВМ	*							oes nonpunu					
Тръб	ia ∅					mm	Clasuus S							NO. 10. 10. 10. 10. 10. 10. 10. 10. 10. 10
		531	55 J2+M	or 1.2	With the course of prompts of the	mm	Планка δ			mm	Профі	4Л	-	
CTOM	ана		SO TR 1!				Сертифика Плавка	Т			Стана	nT	E DC EN ICO	10005.0
	THE RESERVE THE PARTY OF THE PA			1			Сертифика	_			Станда	ıpı	БДС EN ISO	10025-2
Болт	ова връзн	(a M12	кл. 5.8	Ø	-	mm	Плавка	'	-		Станда	арт	_	
Елект	гроди		_	Ø	_	mm	Сертифика	Т						
	F-H.						Плавка		_		Станда	apı	-	
										Съгл	. черт. ()101	1-01 и 0102-	01
		зъбния гре		Машиі				П	оложение	≮ 60	⁰ , стъпк	a 2	mm	
	Приложе	но усилие з						13M6	ерено с					
The second secon	to be for the foreign of the control	Д	инамоме	тричен	КЛЮ	ч, N/r	n							
Рез	ултати	от конт	рола:											
				***************************************		Як	ост на опън						The state of the s	
			m 0		z Φ		757 Te	руп						
			Граница на срязване на болтовата връзка M12, kg		ане ия н	_	за сцепление на зъбните	39 -						
Νō	Nº на	S ₀	ван М1		љзв мац	зъбните гребени, kg/S ₀	X X X	E E	:			***************************************		
ПО	проба	/mm²/ съгл. черт.	ряз		ППИ	e rpe6 kg/S ₀	E H	50лтс . N/m						
ред		Nō	на с		пр Деф	re r kg/	MO MO	3spxy t M12						
			ца н		E H	Ĕ	енс	- B - E						
			ани ТОВ		IN TA	39(Ž Č Ť	E E E						
			Гр. 60-л		Граница на приплъзване и пластична деформация на		Приложено монтажно усили за сцепление на зъбните	греоени върху болтова груп. М12 , N/m						
1.	1AU-BM	0001-01	5400		123	00	15							
2.	2AU-BM	0001-01	8200		158		23							
3.	3AU-BM	0001-01	5600		154	00	35							
4.	4AU-BM	0001-01	6200		162		40					**************		A COMMENT COMMENT AND A COMMENT COMMEN
5.	5AU-BM	0001-01*	5200		520	-	15							
Изп	олзван	и технич	чески (средс	тва	9					-			
И₀ ⊔	о ред		именова			_		Τν	 1П		Илен	гиф	икационен Г	\IO
THE REAL PROPERTY AND ADDRESS OF THE PARTY O	1.		зп. маши				Z		1 40		идеп		2/28/73	N =
													2,20,73	
Забе	лежка: С	борка на ко	мплект !	5PC-OM	е из	пълн	ена само с	. e.	цин брой Дет	айл 2				
									T OPON MCI	ST171 2				

Извършил контрола:

Име: Евгени Цветков
Подпис:



1797 София, ул. "Лъчезар Станчев" №9 (ул. "165" №3) тел./факс (02) 8707070; (02) 8710086; (02) 8700152 e-mail: ckl.montagi@abv.bg; ckl@montagi.com; www: montagi.com

ПРОТОКОЛ № 449 / 21.05.2014 г. РАЗРУШАВАЩ КОНТРОЛ

_														
ВЪ	зложи	ТЕЛ: "Бр	райко" ЕС	ОД –	-р. С	офия,	vл. "Обог	ише'	″ № 37			Дата на 15.05.20	контрол	
	ЕКТ: Изп											13.03.20	/111.	
план	нки с проф	илиран зт	ьбен греб	бен и б	олто	ва вр	ъзка							
ПО	ДОБЕКТ	: Сборка	5 компле	кта ра	зглоб	бяеми	съединен	ия с	прахово					
покр	итие върх	у основни	ія метал	Nº 1÷	AU-	PC								
Тръб	a Ø		-			mm	Планка δ		-	mm	Профил	1	_	
	The second secon		55 J2+M				Сертифика	т					design of the second second second	
Стом	ана	I	SO TR 15	608			Плавка		-		Стандар	т БДС	EN ISC	0 10025-2
Болто	ова връзка	M12	кл. 5.8	Ø	_	mm	Сертифика ⁻ Плавка	г	_		Станда	OT.		
	The state of the s		.0 5.0				Сертифика	г	O SOUTH OR STATE OF S					
Елект	роди		-	Ø	_	mm	Плавка		-	1	Стандар	TC	M*	
										Съгл	. черт. 01	101-01	и 0102	2-01
Наря	зване на з	въбния гре	ебен	Маши	на:			пол	ожение	₹ 60	⁰ , стъпка	2 mm		
1	Триложен							змер	ено с					
		Д	инамомет	гричен	КЛЮ	ч, N/r	n							
Рез	ултати (от конт	рола:											
The second second						Як	ост на опън							TWO STANS CONTROL SECTION SECT
			m 0		z ō		Приложено монтажно усили за сцепление на зъбните	pyn			OFF AMERICA			
			Граница на срязване на олтовата връзка M12, k <u>c</u>		зане	£'	иложено монтажно усили за сцепление на зъбните	Ba						
Иō	№ на	S ₀ /mm ² /	зван а М		лъзе омас	зъбните гребени, kg/S _o	ажн	лтс //m						
по ред	проба	съгл.	сря		пид фоф	e rpe(kg/S _o	10HT	ьрху болт M12 , N/m						
Pon		черт. №	a Ha		на п Іа де	Ā Ā	но м	Въру М1						
			нице		14a 774H	3Ъбн	оже							T
			Граница на срязване на болтовата връзка M12, kg		Граница на приплъзване и пластична деформация на	1.7	рил	і ресени върху болтова груп М12 , N/m						
1.	1AU-PC	0001-01	_		84	-	30							
2.	2AU-PC	0001-01	-		106	THE RESERVE AND ADDRESS OF STREET	40	-						
3.	3AU-PC	0001-01	-		130	000	35							
4.	4AU-PC	0001-01	-		132		40							
5.	5	0001-01	-		146	00	45							
Nan	Опорон	4 TOVILLE	UOCIAIA A	200=										1
	олзвани о ред		чески (ıBa	-		TIAT			Млонт	ud us		. NO
	l.		именован 3П. маши				in the second se	TИП ZDM ·			Идент	ифика 282/28		1 1/15
-		F 0	о гаши	, , , ,					10			202/20	775	
	THE STREET PROPERTY OF STREET,													

	Извършил контрола	
Име: Евгени Цветков		
Подпис:		_

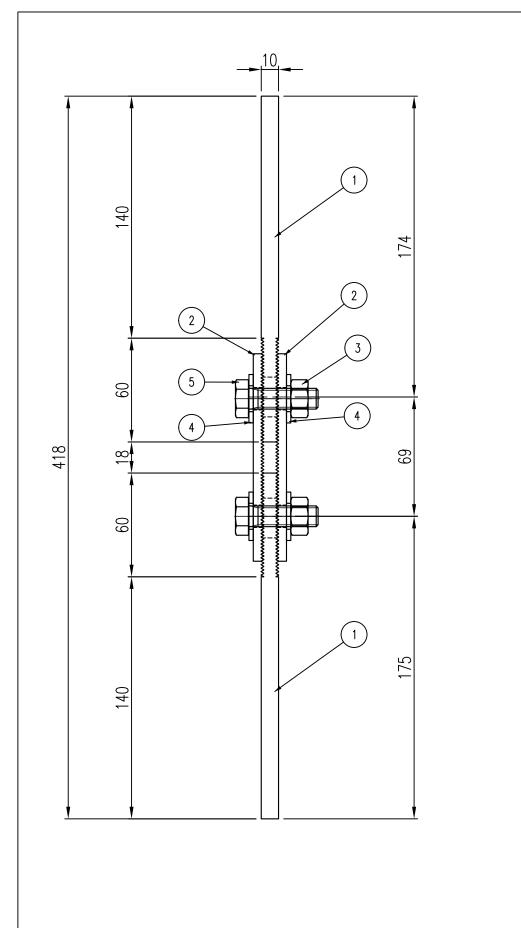


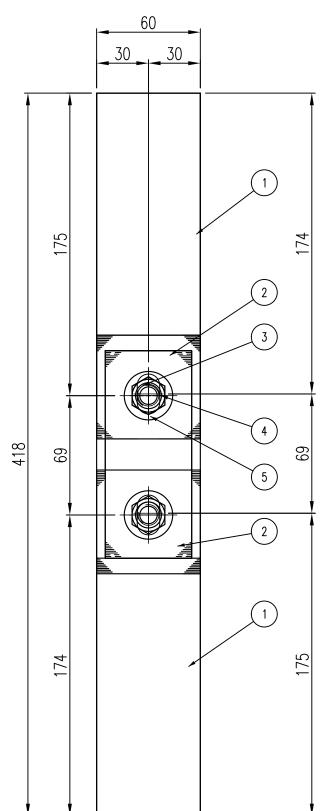
1797 София, ул. "Лъчезар Станчев" №9 (ул. "165" №3) тел./факс (02) 8707070; (02) 8710086; (02) 8700152 e-mail: ckl.montagi@abv.bg; ckl@montagi.com; www: montagi.com

ПРОТОКОЛ № 450 / 21.05.2014 г. РАЗРУШАВАЩ КОНТРОЛ

The state of the s			AND THE PERSON NAMED IN COLUMN 2 IN COLUMN	AND RESIDENCE TO A STREET OF THE PARTY OF TH									
ВЪ	зложи	1ТЕЛ: "Бр	райко" ЕС	ООД –	гр. (София	, ул. "Обор	ище	e″ Nº 37			ата на контро 5.05.2014 г.	ЭЛ
ОБ	EKT: Nar	титване на	опън на	округ	тнен	разг	лобяемо съ						
		филиран зт											
ПО	ДОБЕК	Т: Сборка	5 компле	кта р	азгло	бяемі	и съединен	ия с	галваничн	0			
покр	ритие вър	ху основни	ія метал	Nº GZ	n								
Тръб	a Ø		-			mm	Планка δ		-	mm	Профил		-
		S3!	55 J2+M	gr. 1.2	2		Сертифика	r					
Стом	ана	I	SO TR 15	608			Плавка				Стандарт	БДС EN IS	SO 10025-2
Болто	ова връзк	a M12	кл. 5.8	0	_	mm	Сертификат Плавка	г	_		Стандарт		_
		1112	101. 5.0		***************************************	1111111	Сертифика	r			,		
Елект	роди		-			mm	Плавка		-	1	Стандарт		_
										Съгл	. черт. 010	1-01 и 010	2-01
Наря	азване на	зъбния гре	ебен	Маші	ина:			ПОЛ	тожение	₹ 60) ⁰ , стъпка 2	mm	
						бните	гребени, и				7 01 5.110 2		
			инамоме										
Рез	ултати	от конт	рола:		and a simple parameter par								
			PARAMETER AND THE AS A SECOND CONTRACT COMPANIES OF THE PARAMETER AS A SECOND CONTRACT CONTRA			Я	кост на опън						
			kg kg		D Z	Z Z	Приложено монтажно усили за сцепление на зъбните	ресени вырху ослтова група М12 , N/m					
		S ₀	Граница на срязване на болтовата връзка M12, k <u>c</u>		Ван	Z Z	40 у	ОВА					
⊔ο Nō	№ на	/mm ² /	язва Ка М		5417	ична деформаци зъбните гребени, kg/S ₀	Tax	bpxy ooung M12 , N/m					7771-2 N. B. (1970) 1971-19 1971-1971 1971-1971 1971-1971
ред	проба	съгл. черт. №	а срз		INDI	e rpe(kg/S _o	МОН	12, C					
		черт. м	la Hä		£ 5	T DI	ено пле	Z E					
			зниг това		ица	326	CLE	D Z					
			Грё		раница на приплъзване	изстична деформация на зъбните гребени, kg/S ₀	38	Dec.					
1.	1AU-GZn	0001-01	6200			-	30						
2.	2AU-Gzn				9	900	35						
3.	3AU-Gzn		5400			_	35						
4.	4AU-GZn		-			000	40						
5.	5AU-GZn	0001-01	6400		40	000	50						
Man	Опорон	II TOVIII	IIOCIAIA A	cnor									
NO n	ол зван о ред	и техни	именова		CIB	a i		7145			Ипонти		NO.
	о ред 1.		зп. маши					TUI ZDM				фикационе 82/28/73	H INZ
-	-	K 8	or namn	110			۷		10		21	02/20/13	

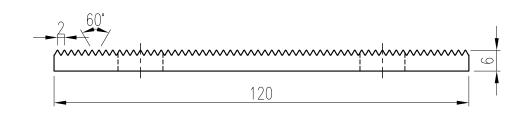
F	Man - Maria	
	September 1	Извършил контрола:
Име: Евгени Цветков		
Подпис:	English A	Y
	Ja Mbas,	Лист 1/1

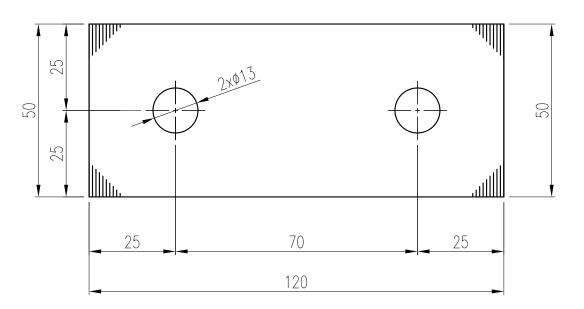




Elem	nents
1	2xElement with serration_1
2	2xElement with serration_2
3	2xNut DIN934
4	4xWasher DIN125
5	2x Screw M12

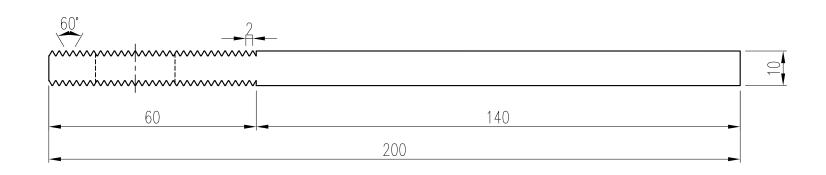
LAST CH.:	22-04-2014	DRAWING TITLE:	TEST ELI	EMENTS WITH SERRATIONS	-	_	_	_
DATE:	16-04-2014	_			-	-	-	-
SCALE:	1 : 20 A3	PROJECT NAME:	RILLEN		-	-	_	-
BRA	IKO LTD	PROJECT NR.:	140099		REV. DESCRIPTION	DRAWN	DATE	NR.
117 Zaicho	ar St. 1309. Sofia	CONTRACT NR.:	-	PACKAGE NR.: -	MATERIAL	WEIGHT	QUANTITY	UNIT
fax: -	+359 (2) 421 55 00 +359 (2) 421 55 50 office@braiko.com	CLIENT:	_		S355 J2+M	-	_	-
web:	www.braiko.com	DESIGNER:	N.Mitsev		DWG Nr. 0001	•	REV.	1

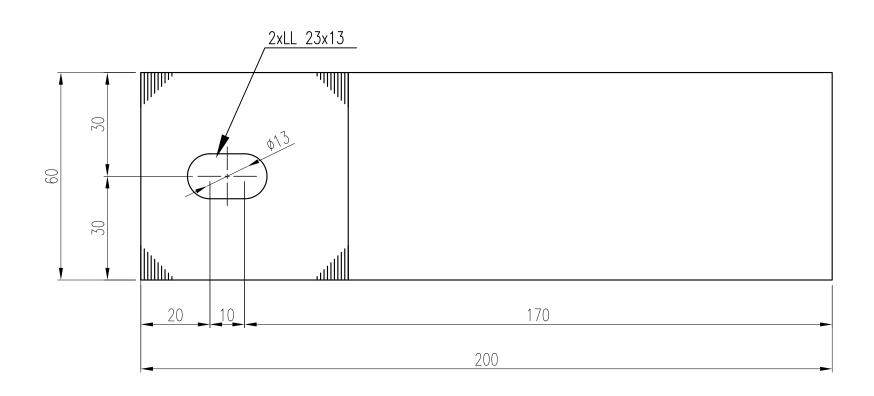




Detail 2 Scale: 1:1

AST CH.:	17-04-2014	DRAWING TITLE:	TEST ELEMENT WITH SERRATION 2	-	_	-	1
ATE:	16-04-2014	-		-	-	-	-
CALE:	@ -	PROJECT NAME:	RILLEN	-	-	_	-
BRAI	KO I TD	PROJECT NR.:	140099	REV. DESCRIPTION	DRAWN	DATE	NR.
17 Zaichar	St. 1309. Sofia	CONTRACT NR.:	- PACKAGE NR.: -	MATERIAL	WEIGHT	QUANTITY	UNIT
x: +3 mail:	359 (2) 421 55 00 359 (2) 421 55 50 office@braiko.com	CLIENT:	-	S355 J2+M	_	30	-
eb:	www.braiko.com	DESIGNER:	N.Mitsev	DWG Nr. 0102		REV.	1





1 Detail 1 Scale: 1:1

LAST CH.: 17-04-2014	DRAWING TITLE:	TEST ELEMENT WITH SERRATION 1	-	_	_	-
DATE: 16-04-2014	_		-	-	_	-
SCALE: ☐ : ☐ A4	PROJECT NAME:	RILLEN	_	-	_	-
BRAIKO LTD	PROJECT NR.:	140099	REV. DESCRIPTION	DRAWN	DATE	NR.
117 Zaichar St, 1309, Sofic tel.: +359 (2) 421 55 00	CONTRACT NR.:	- PACKAGE NR.: -	MATERIAL	WEIGHT	QUANTITY	UNIT
fax: +359 (2) 421 55 50 email: office@braiko.com	CLIENT:	_	S355 J2+M	_	30	-
web: www.braiko.com		N.Mitsev	DWG Nr. 0101		REV.	1

A01 ArcelorMittal Ostrava a.s. Vragnovská 689

INSPECTION CERTIFICATE

Z02 Ostrava,17.05.2013

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A04

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0.07	Purcha	ser's Or	der No	and/o	r Item N	Vo.											-				\neg
A07	ANGE	EL05-A	MO																		
A08	Job No	acturer's	810		ery Adv 21/000		13/501	179		st 40	ngel S r. "Ro 003 Pl	stoilo gosh ovdiv	onsign v 96 J ko sh	sc ose"	Nr6a						
A09	Supplie No.	er's Orde	er								ulgari	a									
		36487/25																			
Produ	ıct, Dime	ensions	Steel	design	ation, C	onditio	n, Term	s of De	elivery,	Any su	ppleme	ntary re	quirem	ents:							
		03,B04,E S P- 60)			10058	:2003 L	ength 6	3100 mr	m + 10	0 /- 0 S	355J2+	M ACC	ORDIN	G TO E	EN 1002	25-2/200	04				
B13	A	ctual we	ight		2.430,0	000 KG															
C71	Chemic	al Analy	sis of	Liquid A	loy (%)															
B07 H	eat No.	Test type	C70	C [%]	MN [%]	SI [%]	P [%]	S [%]	N [%]	CU [%]	NI [%]	CR [%]	MO [%]	V [%]	AL [%]	B [%]	T1 [%]	NB [%]	В	08	
				>0 < 0.2	>0 <1.6		>0 <0.025	>0 <0.025		>0 <0.55									Pieces	Bun	ches
	023Y	Н	0		1.2700			0.0150	0.0040	0.0300	0.0250	0.0340	0.0070	0.0610	0.0040	0.0000	0.0000	0.0000			1
B07 I	Heat No.	Test type	C70	AS [%]	SN [%]	CA [%]	CEV [%]														
44	4023Y	H	0		0.0030	0.0016	0.3747														
	II COI	Innation	See A	nacrimer	114																

0.0000 means that the measured value is under the instrument detection limit (IDL).

5 T	est results			2 Tensile test acc.to EN ISO 6892-1:2009										4 Charpy impact test acc.to ISO 148-1:2010					
Heat No.	Specimen No.	C02	Yield or	C12 Tensile strength	C13 Elongati on A5								C03 Test temper ature (°C)	C4	0 KV2 (C41 7	7 50		
					A5								°C	C04 min	C04 max	J (J/	cm2)		
	C04 Regulation		>355	>470 <630	22.0								-20.00	21.0					
														C43		C42			
44023Y	20083608	0	371	512	28.5														
44023Y	20083610	0											-20.00	153	152	158	148		
1 Co	ntinuation se	e Att	achmen	1					-		-								

440	23Y 20083610 0 Continuation see Attachment							-20.00	153	152	158	148
6 Ber C52 C53	nd test according to EN ISO 74. Bend Test Rebend test	38:2005					"АНГ Вярі Клие				B 96	"Ana"
C93 ana Z01 with	ironmental product declaration: EP 3 The mass activity ionizing radulysis does not exceed 100 Bq/A The Manufacturer confirms that suit order's requirements, the Purchas it has been tested in duly compilian	diation value in liquid (g. Joh Product is in duly co Je Contract's requiremen	mpliance ts and	306,04	1020 - CPD	0/06 - 0700295 0025-1	Hot-rolled stru acc to EN 1002 Designed for civil and machs Weldability: guaranteed thr	ptural stee 25-1 2004 the followine enginee	ring appl	ications	TO THE SERVICE OF THE	ERRENE S
D0°	The inspection and the test re caried out on the delivered duct or on a product test unit.	ArcelorMi	Ital Ostra	oz Ostrav	va-Kunčice 0		IDEN Ing. R PHON replace	KS INSETIFICAT Radim Sn NE: -420 ces seal	ION No ubar) 59568 and sig	. 14 2303 nature		

AC 32 00061737 /12 M. 8213

Liste des indications des champs selon la norme EN 10168 et leur traduction. Seznam označení polí v EN 10168 a jejich příslušné překlady. Verzeichnis der Feldbezeichnungen gemäss der Norm EN 10168 und ihre Übersetzung. Signe numérique Marquage des champs, Označení pole, Feldbezeichnung Číselný znak German Numerisches French Zeichen Fortsetzung in der Alange Suite ci-joint Pokračování v přiloze Zugversuch gm. EN ISO 6892-1:2009 Essai de traction selon EN ISO 6892-1:2009 Zkouška tahem dle EN ISO 6892-1:2009 Essai de dureté selon EN ISO 6506-1:2005 Zkouška tvrdosti dle EN ISO 6506-1:2005 Härteprüfung gm. EN ISO 6506-1:2005 Essai de flexion par choc selon EN ISO Zkouška rázem v ohybu dle EN ISO 148-1:2010 Schlagbiegeversuch gm. EN ISO 148-1 2010 4 Prüfungsergebnisse Résultats d'essais Výsledky zkoušek Biegeversuch gm. EN ISO 7438:2005 Essai de pliage selon EN ISO 7438:2005 Zkouška ohybem dle EN ISO 7438:2005 6 Výrobní závod Herstellerwerk A01 Usine du fabricant Art der Prüfdokumente Type de document de contrôle Druh dokumentů kontroly A02 Číslo dokumentu Dokument-Nr A03 Numéro de document Marque du producteur Značka výrobce Herstellerzeicher Aussteller des Prüfdokumentes A05 Auteur du document de contrôle Vystavovatel dokumentu kontroly Abnehmer/Empfänger Odběratel/příjemce A06 Acheteur/destinataire Číslo objednávky odběratele popřípadě číslo Bestell-Nr. des Abnehmers, bzw. Posten-Nr Numéro de la commande du client ou numéro A07 du poste de commande položky Herstellerauftrags-Nr. 80A Numéro de la commande de l'usine du fabrican Číslo zakázky výrobce Lieferantenauftrags-Nr Numéro de la commande de fournisseur Číslo objednávky dodavatele A09 Číslo dodacího návěšt Lieferungs-Aviso Nr A10 Avis de livraison No B01 Produit Výrobek Erzeugnis Stahlbezeichnung Désignation de l'acier Označení ocel B02 B03 Exigences supplémentaires Jakékoliv doplňující požadavky Jede Zusatzanforderung Lieferzustand des Erzeugnisses B04 Etat de produit au moment de livraison Stav výrobku při dodán Referenzbehandlung (Wärmebehandlung) von Referenční (tepelné) zpracování vzorků B05 Traitement (thermique) de référence des échantillons B06 Značení výrobků Erzeugnismarkierung Marquage des produits Číslo tavby Schmelz-Nr. B07 Numéro de la coulée Stücke, Bunde B08 Nombre de piéces, faisceaux Kusy, svazky B09 Dimensions du produit Rozměry výrobku Erzeugnismaße Masse théorique Teoretická hmotnos Theoretisches Gewich B12 Masse réelle Skutečná hmotnost B13 Ist-Gewich: Probe-Nr C00 Identification de l'échantillon Číslo vzorku Orientation des échantillons (0-longitudinal, 1 Směr zkušebních vzorků, těles (0 -podélný, 1 Probenrichtung (0 - länglich, 1 - querdurch) -transversal) C03 Température d'essai(*C) Zkušební teplota (°C) Prüftemperatur (°C) Předpis C04 Prescription Vorschrift Ausgeprägte oder vertragliche Dehngrenze C11 Limite apparente ou limite élastique Výrazná nebo smluvní mez kluzu conventionnelle Pevnost v tahu C12 Résistance à la traction Zugfestigkeit Bruchdehnung Allongement Tažnost Agt[%] Agt[% Zkušební postup Prüfverfahren C30 Méthode d'essai Jednotlivé hodnot Valeurs individuelles Průměrná hodnota Mittelwert Valuers moyenne Tvar zkušebního tělesa Probekörperform C40 Forme de l'échantillor Probekörperbreite Šírka zkušebního tělesa C41 Largeur de l'échantillon Jednotlivé hodnoty C42 Valeurs individuelles Einzelwerte Průměrná hodnota Mittelwert Valeur movenne C43 C50 Einschnürung Contraction Kontrakce Rapport Rm/Re Poměr Rm/Re Verhältnis Rm/Re C51 Zkouška ohybem (X-vyhověla, O-nevyhověla) Bruchprobe (X-Konformität, O-Nicht-konformität) C52 Essai de pliage (X-satisfaisante, O-non satisfaisante) Rückbiegeversuch Zpětný ohyb Essai de pliage- dépliage C54 Surface relative de nervure fr Vztažná plocha žebra fr Bezogene Rippenfläche fr AHTEN Re ist/Re nenn C56 Re act/Re nom Re act/Re nom Stahlherstellungsverfahren (Ö Sauerstoffverfahren-kontinuierlich gegossenes Stranggvss) Způsob výroby ocelí (0 -kys proces-kontislitek) OHPRE Mode de production de l'acier (0 -Convertisseur á oxygéne-coulée continue) Knucht Analyse chimique de la coulée (%) Schmelzanalyse (%): C71 Tavební chemická analýzá (% Massenaktivitatswert öertionisierenden Strahlung in der Schmelzanalyse übersteigt nicht 100 Bg/kg. Hodnota hmotnostní aktivitý jonizujícího záření v tavební analýze nepřesahuje 100 Bo/kg. L V Ko Valeur de l'activité de masse du rayonnement ionisant dans l'analyse de la coulée ne dépasse 0.93 pas 100 Bq/kg. Kontrolle und Prüfungen wurden am gelieferten Produkt oder an der Produktionsprüfeinheit Kontrola a zkoušky byly provedeny na dodávaném výrobku nebo výrobní zkušební D01 Le contrôle et les essais ont été réalisés sur le produit fourni ou sur l'unité d'essai du fabricant. durchgeführt Der Hersteller bestätigt, daß dieses Produkt mit Z01 Le fabricant confirme que ce produit est Výrobce potvrzuje, že tento výrobek je v souladu conforme aux exigences de la commande, du contrat d'achat et qu'il a été soumis aux essais s požadavkem objednávky, kupni smlouvy a byl zkoušen, kontrolován v souladu s technickými den Anforderungen der Bestellung und des Kaufvertrages konform ist und dass es in selon les exigences techniques de la požadavky objednávky. Übereinstimmung mit den technischer Anforderungen der Bestellung geprüft und commande. kontrolliert wurde. Datum der Ausstellung und der Date d'émission et validation Datum vydání a ověření platnosti Bestätigungsbeglaubigung Razítko zástupce kontroly Stempel des (der) Abnahmebeauftragten Timbre du contrôleur Marquage CE Označení CE Z05 Représentant autorisé du client Pověřený zástupce odběratele Beauftragter Vertreter des Abnehmers

A01 ArcelorMittal Ostrava a.s. Vratimovská 689 707 02 Ostrava-Kunčice Česká republika TEL.: +420-595682303 FAX.: +420-595682114

INSPECTION CERTIFICATE
"3.1"
EN 10204:2004

Z02 Ostrava,17.05.2013

A03 A04

Document No. 1000101420



B07 Heat No. B07 Heat No. ID B07 Heat No 44023Y 3041225089 "АНГЕЛ СТОИЛОВ 96" АЛ ВЯРНО С ОРИГИНАЛА Клиент по поръчка Ме

Z02, Z03,A05

ArcelorMittal

ArcelorMillal Ostrava a.s.

Vrallmovská 589. 707 02 Ostrava-Kunčice
Issuelostataszabn document

Fisher Issue 017

WORKS INSPEKTOR IDENTIFICATION No. 14 Ing. Radim Srubar PHONE: +420 595682303

replaces seal and signature Issued by: Ilona Filipková



ЛАТИНКА ЕООД

Пловдив София ул.Пиротска 132, тел.:02/8220 655 Факс; 9200 457

ДЕКЛАРАЦИЯ ЗА СЪОТВЕТСТВИЕ

Латинка ЕООД, представлявано от Йордан Ангелов Ризов в качеството си на управител на дружеството с Булстат 115 333 855 и адрес на регистрация гр.Пловдив ул. "Иван Гешев" 33

Наименование: ДИН 933/м12х45-машинен болт цинк ДИН 934/м12-гайка цинк

Удостоверявам, на базата на съответните сертификати за качество и съответствие от производителите и нашите доставчици, че стоките посочени в тази деклариция са произведени В съответствие с посочените по-долу стандарти:

- ISO 9001:2000

При промени в конструкцията и предназначението на продукта, настоящата декларация става невалидна.

София, 15.05.2014

Управител:Йодан Ризов



EUROPOLVERI S.p.A. Sede e stabilimento: Via Galvani, 69 36066 Sandrigo (Vicenza) Italy

Telefono: +39.0444.750643 Telefax: +39.0444.750653 www.europolveri.it info@europolveri.it

TECHNICAL DATA SHEET

PURAL PES 5L2311113T000 (EX 5023A1011) BEIGE SM HG TS TF HMF

X 1011CA - QUALICOAT P-0238

Composition

Powder based on polyester saturated carboxylated resins and hardeners alternative to TGIC chosen for their characteristics of outdoor resistance. Formulated with pigments and additives specifically selected for the high resistance to UV rays and weathering agents

Recommended uses

Powder dedicated to outdoor exposition where expresses its remarkable qualities of resistance to chalking and color variation at the best.It is indicated for coating of aluminium and iron windows in building, lighting elements, bodies for agricultural and industrial machinery.

Substrate pre-treatment

Powders adhere to most metal surfaces provided these are dry, clean and degreased. A chemical pre-treatment of the surface is required in order to improve the resistance against the corrosion, based on the kind of metallic support.

Application

This powder is suitable for use with electrostatic spraying equipments whose voltage is between 40 and 90 KV. Where acronym "TS" is present, our products are working also with triboelectical guns.

A difference of thickness of applied coating can generate modification of the appearance of hardened coating. In case of products having special effects, the use of overspray is not advised except for bonded products.

Polymer	ization	conditions

180°C x 20 min.	(pie	ce temperature)
-----------------	------	-----------------

Characteristics after polymerization (application on steel panel)

Erichsen Drawing:	>= 5 mm	ISO 1520
Mandrel Bend Test:	>= 4 mm	ISO 1519
Impact Resistance:	>= 2,5 Nm	ASTM D2794
Buchholz Hardness:	>= 80	ISO 2815
Cross Cut Test:	Gt0	ISO 2409
Gloss 60°:	L=80-100 gloss; SL=60-80 gloss; SO=30-60 gloss; O=10-30 gloss; OO=0-10 gloss	ISO 2813

Chemical resistance

The product has good resistance to most 10% acids and to ethylalcohol at room temperature (25°C).

For specific requests we invite you to contact our technical assistance.

Corrosion resistance (application on iron-phosphate bonder)

Humidity Chamber:	After 500 hours no change.		
Kesternich:	After 10 cycles no loss of adhesion.	ISO 3231	
Salt Spray:	After 1000 hours < 1 mm penetration.	ISO 9227	

Accelerated ageing (QUV-B) (313 nm) with QUV/SE cycle 4 hours, condensation at 40°C/4 h irradiation 50°C (0,75 W/m²/nm. Application on aluminium panel)

Test:	OUV-B (313 nm) after 300 hours loss gloss <= 50%.

Storage

A storage life of at least 6 months from date of loading can be expected provided the boxes remain sealed and stored in a cool dry area below 30°C.

Notes:

- * The above data are the results of careful researches and our long experience, nevertheless considering the large number of factors concurring to determine the values in the present technical data sheet, the utilizer will have the duty to effect the best conditions so as to get the best result.
- * This product is destined only to professional applicators working in an industrial installation. The manipulation of the product from the utilizer must be conform to laws concerning the use of powder coatings and to information described in our technical data sheet sent together with the product itself.

Revision 1/January. 2010

EUROPOLVERI S.p.A.



EUROPOLVERI S.p.A. Sede e stabilimento: Via Galvani, 69 36066 Sandrigo (Vicenza) Italy

Telefono: +39.0444.750643 Telefax: +39.0444.750653 www.europolveri.it info@europolveri.it

TECHNICAL DATA SHEET

DURPOL EE 9L1870353T000 (EX 9088A6361) GREY SM GL TS HMF

X R7035

Composition

Powder based on polyester saturated carboxylated resins hardened in stoichiometrically relation with epoxy resins and formulated with pigments and inert fillers appropriate to guarantee good resistances in places do not exposed to direct weathering agents.

Recommended uses

Powder indicated for a wide range of artefacts having excellent aesthetic finishing level and good resistance to yellowing such as: radiators, domestic appliances, tools, metallic furniture, scaffolding, indoor lighting, electric cabinets, office equipment. In order to obtain a good protection, it is necessary to spray an average thickness of 70-80 micron.

Substrate pre-treatment

Powders adhere to most metal surfaces provided these are dry, clean and degreased. A chemical pre-treatment of the surface is required in order to improve the resistance against the corrosion, based on the kind of metallic support.

Application

This powder is suitable for use with electrostatic spraying equipments whose voltage is between 40 and 90 KV. Where acronym "TS" is present, our products are working also with triboelectical guns.

A difference of thickness of applied coating can generate modification of the appearance of hardened coating. In case of products having special effects, the use of overspray is not advised except for bonded products.

Po	lymerizat	tion co	nditio	ns

180°C x 15 min. (piece t	emperature)
--------------------------	-------------

Characteristics after polymerization (application on steel panel)

Characteristics after polymerization (application on steel panel)					
Erichsen Drawing:	>= 5 mm	ISO 1520			
Mandrel Bend Test:	>= 4 mm	ISO 1519			
Impact Resistance:	>= 2.5 Nm	ASTM D2794			
Buchholz Hardness:	>= 80	ISO 2815			
Cross Cut Test:	GtO	ISO 2409			
Gloss 60°:	80 - 100 gloss	ISO 2813			

Chemical resistance

The product has good resistance to most 10% acids and to ethylalcohol at room temperature (25° C).

For specific requests we invite you to contact our technical assistance.

Corrosion resistance (application on iron-phosphate bonder)

Humidity Chamber:	After 500 hours no change.	
Kesternich:	After 10 cycles no loss of adhesion.	ISO 3231
Salt Spray:	After 1000 hours < 1 mm penetration.	ISO 9227

Accelerated ageing (QUV-B) (313 nm) with QUV/SE cycle 4 hours, condensation at 40°C/4 h irradiation 50°C (0,75 W/m²/nm. Application on aluminium panel)

Test:	Not annil achia
Test:	Not applicable.

Storage

A storage life of at least 6 months from date of loading can be expected provided the boxes remain sealed and stored in a cool dry area below 30°C.

Notes:

- * The above data are the results of careful researches and our long experience, nevertheless considering the large number of factors concurring to determine the values in the present technical data sheet, the utilizer will have the duty to effect the best conditions so as to get the best result.
- * This product is destined only to professional applicators working in an industrial installation. The manipulation of the product from the utilizer must be conform to laws concerning the use of powder coatings and to information described in our technical data sheet sent together with the product itself.

Revision 2/September. 2013

EUROPOLVERI S.p.A.



Quality Certificate

№ A180-02/13.05.2014

Client	Supplier			
Braiko Ltd.	Galco JSC			
Zaichar 117	Garata Str. 1			
Sofia, Bulgaria	BG-2400 Radomir			
	Bulgaria			
Hot-dip Galvanizing:	Braiko Ltd.			
	Your Ref. #140099			
	Project: Rillenstandard\Test			

#140099

Zeichnung	eichnung Material	Referenz wert Bezugswert			Deta	Vertrau				
Position	Stück	Norm	Stah 1	Güte	der Bauteilhö he	der Erzeugnisd icke	Verweil zeit	Konstrukti ons klasse	il klas se	ens zone*1
101	10	EN 10025-2	S35 5	J 2	60 mm	10 mm	-	Ia	С	1
102	10	EN 10025-2	S35 5	J 2	50 mm	6 mm	-	Ia	С	1

we hereby confirm that the products delivered to our client:

BRIKO Ltd.

Are Hot-dip galvanized according to the EN ISO 1461 and fulfill the requirement for zinc layer thickness as required.

All final test and inspections are conducted according to our QMS as implemented to

EN ISO 9001:2008

The items are ready for shipment.

Accompanying papers: Declaration of conformity, Zinc coating measurement Protocol

dipl.-Eng. D. Dimitrov Galco JSC

A Company of the BERG-GROUP Cologne/Germany

GALCO JSC 1 Garata str. 2400 Radomir Bulgaria Telephone: 00359 777 80210 Fax: 00359 777 80339 e-mail: info@galco-ad.com

EI Bank Radomir BIC: BUIB BG SF IBAN: BG74BUIB7837 1450084909 Chairman:

Dipl.-Eng. Dimitar Dimitrov Comm. Reg. Pernik 371/96 VAT-ID: BG 113032757



Declaration of Conformity

The undersigned, Dimitar Dimitrov, CEO of Galco JSC, company located in Garata Street No. 1, BG-2400 Radomir, declare with all responsibilities, that the products:

Your Ref. #140099

Project: Rillenstandard\Test

Made/delivered by our customer:

BRAIKO Ltd., Zaichar Str. 117, Sofia, Bulgaria

were Hot-Dip Galvanized according to the European Standard for Hot dip galvanized coatings on fabricated iron steel articles BDS EN ISO 1461 as well as with the regulation for main requirements and estimation of building products, security regulation and other regulations for estimation of compliance.

This declaration is a part of the Certificate for Quality № A180-02/13.05.2014.

With undersigning this declaration I confirm that I am aware of my responsibilities according the Article 313 of the Penalty Code of Bulgaria.

dipl.-Eng. D. Dimitrov

A Company of the BERG-GROUP Cologne/Germany

1 Garata str. 2400 Radomir Bulgaria

Telephone: 00359 777 80210 00359 777 80339

e-mail: info@galco-ad.com

El Bank Radomir **BIC: BUIB BG SF** IBAN: BG74BUIB7837

1450084909

Chairman:

Dipl.-Eng. Dimitar Dimitrov Comm. Reg. Pernik 371/96 VAT-ID: BG 113032757

Report

This protocol has been made to meet the special requierment of our customer:

"Braiko" Ltd., Sofia

BG203005054

The current protocol has been made on 13.05.2014 in order to summarize the messurment of the zinc coat thickness on the details from Project #140099 that are being Hot-Dip Galvanized according to EN-ISO 1461, 6.2.3, Table 2.

Detail №	Thickness of the material	Values						
		(5 point)						
0101	10mm	89,65	87,41	90,38	97,44	82,14	89,404	
0102	6mm	84,98	81,95	82,45	88,78	83,12	84,256	

The thickness of the Zinc layer was measured according to the electromagnetic method given in БДС EN ISO 1461:2009.

Measured values and present value in μm . Measurement equipment: QuaNix 1500.

The measurement was made by

Controller: J. Dimitrov

Galco JSC

BRAIKO LTD 117 Zaichar St. 1309 Sofia tel. +359 (2) 421 55 00 Fax. +359 (2) 421 11 44

e-mail: office@braiko.com

Bestellspezifikation DAsT 022

page 1/1

#14099

Zeichnung- Position		Ma	Material		Referenzwert	Bezugswert		War and I die	Datail	Victoria
	Stück	Norm	Stahl	Güte	der Bauteilhöhe	der Erzeugnisdicke	Verweilzeit	Konstruktions klasse	Detail klasse	Vertrauen zone*1
101	10	EN 10025-2	S355	J2	60 mm	10 mm	-	Ia	С	1
102	10	EN 10025-2	\$355	J2	50 mm	6 mm	*	Ia	С	1
								1		
							Hard Hard			
		7.								
	ichtdicke (Mindestv									

4180-02/13.05.2014

1 Dimbor 12.01.2014

Das ÜZ-Zeichen ist vor Beginn der Verzinkungsarbeiten dem Auftraggeber zuzusenden. Zinkbadklasse 1

*1 Sichtprüfung und Magnetpulverprüfung sind gemäß DAST 022 zu dokumentieren.

Vertrauenszone 1:

100% Sichtkontrolle

Vertraue



Bestellspezifikation für eine Feuerverzinkung nach DASt-Richtlinie 022 entspr. Abschnitt 4.3 (1) der DASt-Richtlinie 022

- Anlage 1 -

Allgemeine Angaben: Bra	iks Ital						
Datum: 12, 0T. 231	Y						
Auftragsnummer: 47 - 2		Spezifikationsnummer: # 140099					
Auftraggeber (z. B. Stahlbauunterne		Auftragnehmer:					
Braiko Lto 1309 806	d Q	Galko AG Garata Str. 1 BG-2400 Radomir					
Ansprechpartner Auftraggeber:		Ansprechpartner Auftragnehmer:					
Hr. Kopankov		Ivan Dimitrov					
Prüfprotokoll für visuelle F	Prüfung (nach Abschnitt 4.7)						
Tag der Prüfung:	Prüfer:	Bauteil/Prüfpunkt	Befund				
13.65.2014	J. Dimitrov	#140099	i. O.				
			/				
Datum: 13.05.2014		Unterschrift: J. Dinn From					
MT-Prüfung (nach Anlage	3)						
Тур:		magnet. Feldstärke:					
Magnetisierungs- gerät:		Polabstand:					
Prüfmittel:		ggf. Untergrundfarbe:					
Prüfprotokoll für MT-Prüfu	ng (nach Anlage 3)						
Tag der Prüfung:	Prüfer:	Bauteil/Prüfpunkt	5.4				
/	/	Bauten/Pruipunkt	Befund				
Datum:		Unterschrift:					