

ArcelorMittal Gipuzkoa, S.L.U.  
**ArcelorMittal Europe – Long Products**  
 CARRETERA MADRID - IRUN, KM. 419  
 20212 OLABERRIA (Guipúzcoa)  
 TELEF. (943) 80.50.00 - FAX (943) 88.04.04



## MILL TEST CERTIFICATE

## OLA P-41327

DISCHARGE ADDRESS		CUSTOMER		
MEXICO		MEXICO		
SHIPPED AND CERTIFIED BY		CREDIT NUMBER	PORT OF LOADING	
ARCELORMITTAL OLABERRIA CARRETERA MADRID - IRUN, KM. 419 20212 OLABERRIA (Guipúzcoa) TELEF. (943) 80.50.00 - FAX (943) 88.04.04			BILBAO, SPAIN	
		PORT OF DISCHARGE		VESSEL
		ALTAMIRA		AMURBORG
OUR REFERENCE	CONTRACT NUMBER	ORDER NUMBER	DATE	
P1704509	01-E-48344 / 17000188	011455	06/09/2014	

### WIDE FLANGE BEAMS

SIZE	LENGTH	BUNDLES	PIECES BUNDLES	TOTAL PIECES	WEIGHT BUNDLES	TOTAL WEIGHT	HEAT
+ / YELLOW							
WF BEAMS 24x68	40'	18	4	72	4935	88.830	153042,153043,153062,153091,153093,153094
WF BEAMS 24x103	40'	11	2	22	3738	41.118	153037,153038,153039

TOTAL BUNDLES 29 TOTAL WEIGHT 129.948 Kg.

A02 EN 10204/3.1

CSA G40.21 50W/ASTM A572 G50/A992/A6

(B01/B02/B03) A03

COLADA HEAT	COMPOSICION QUIMICA (%) CHEMICAL COMPOSITION (%)																	
	C	Mn	Si	P	S	V	Cr	Ni	Mo	Cu	Nb	Sn	Al	CEV				
<sup>B09</sup> 153037	,094	,720	,180	,025	,019	,047	,120	,140	,022	,350	,003	,026	,002	,28				
153038	,092	,710	,220	,027	,018	,046	,150	,170	,025	,360	,003	,029	,001	,29				
153039	,094	,680	,200	,023	,021	,047	,120	,170	,025	,370	,003	,038	,002	,28				
153042	,107	,770	,220	,018	,021	,047	,170	,170	,025	,400	,003	,026	,002	,32				
153043	,097	,740	,200	,022	,017	,047	,150	,150	,026	,390	,003	,025	,003	,30				
153062	,107	,740	,190	,016	,020	,044	,070	,170	,030	,350	,003	,032	,002	,29				
153091	,090	,720	,210	,030	,018	,047	,200	,170	,043	,500	,003	,028	,003	,31				
153093	,104	,730	,180	,023	,020	,044	,180	,200	,045	,470	,003	,026	,002	,32				
153094	,113	,740	,190	,021	,020	,046	,210	,220	,050	,430	,003	,025	,001	,34				

MATERIAL SIZE	COLADA HEAT	PROPIEDADES MECANICAS MECHANICAL PROPERTIES					
		ReH MPa		Rm MPa		A% LO=8"	
<sup>B11</sup>	<sup>B09</sup>	<sup>C11</sup>		<sup>C12</sup>		<sup>C13</sup>	
W-24x103	153037	385	384	517	499	24,7	24,1
W-24x103	153038	383	375	505	483	24,3	23,7
W-24x103	153039	372	370	490	498	23,7	24,7
W-24x68	153042	384	374	510	492	24,9	24,4
W-24x68	153043	402	398	535	521	24,8	24,
W-24x68	153062	411	401	535	519	22,6	22,
W-24x68	153091	417	401	523	521	22,5	21,7

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MATERIAL SIZE	COLADA HEAT	PROPIEDADES MECANICAS MECHANICAL PROPERTIES					
		ReH MPa		Rm MPa		A% L0=8"	
<small>B11</small>	<small>B05</small>	<small>C11</small>		<small>C12</small>		<small>C13</small>	
W-24x68	153093	394	390	520	510	22,6	22,1
W-24x68	153094	457	441	604	590	23,3	22,7

### 9 análisis

D01: Certificamos que los aceros arriba indicados han sido satisfactoriamente probados de acuerdo con la especificación.  
 B06: Marca AMO

Responsable del Departamento de Calidad Z01

Lorenzo Zabala