

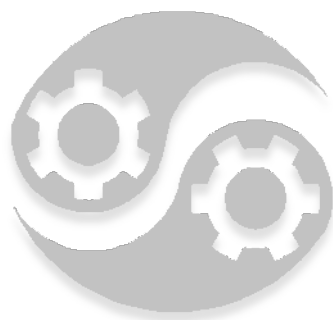
# TECHNICAL SPECIFICATION DOCUMENT

EMPLOYER:

IRAN ALLOY STEEL CO.

CONTRACTOR:

ISATIS MATIN TARH CO.

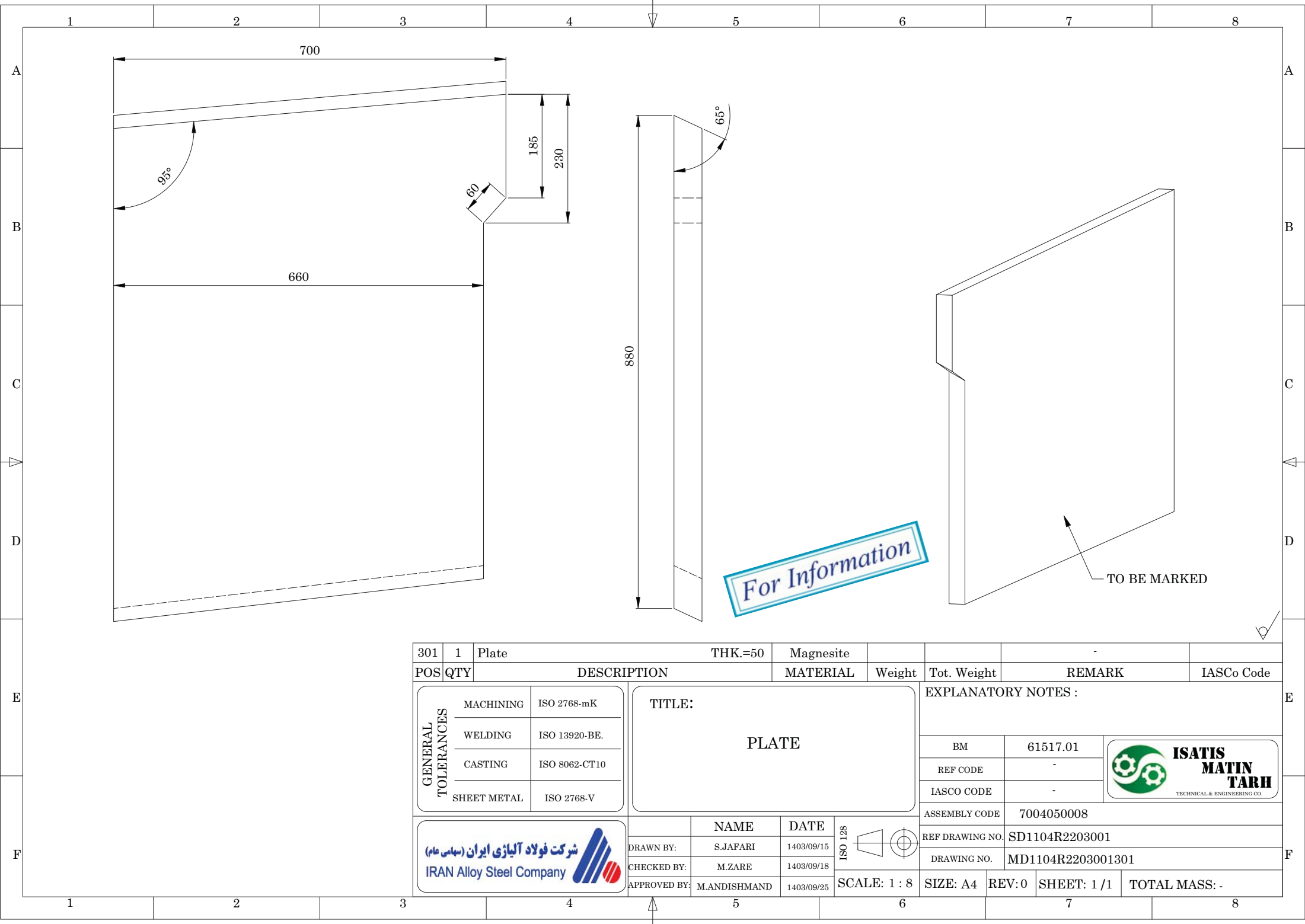



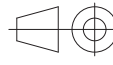

*BM : 61517*

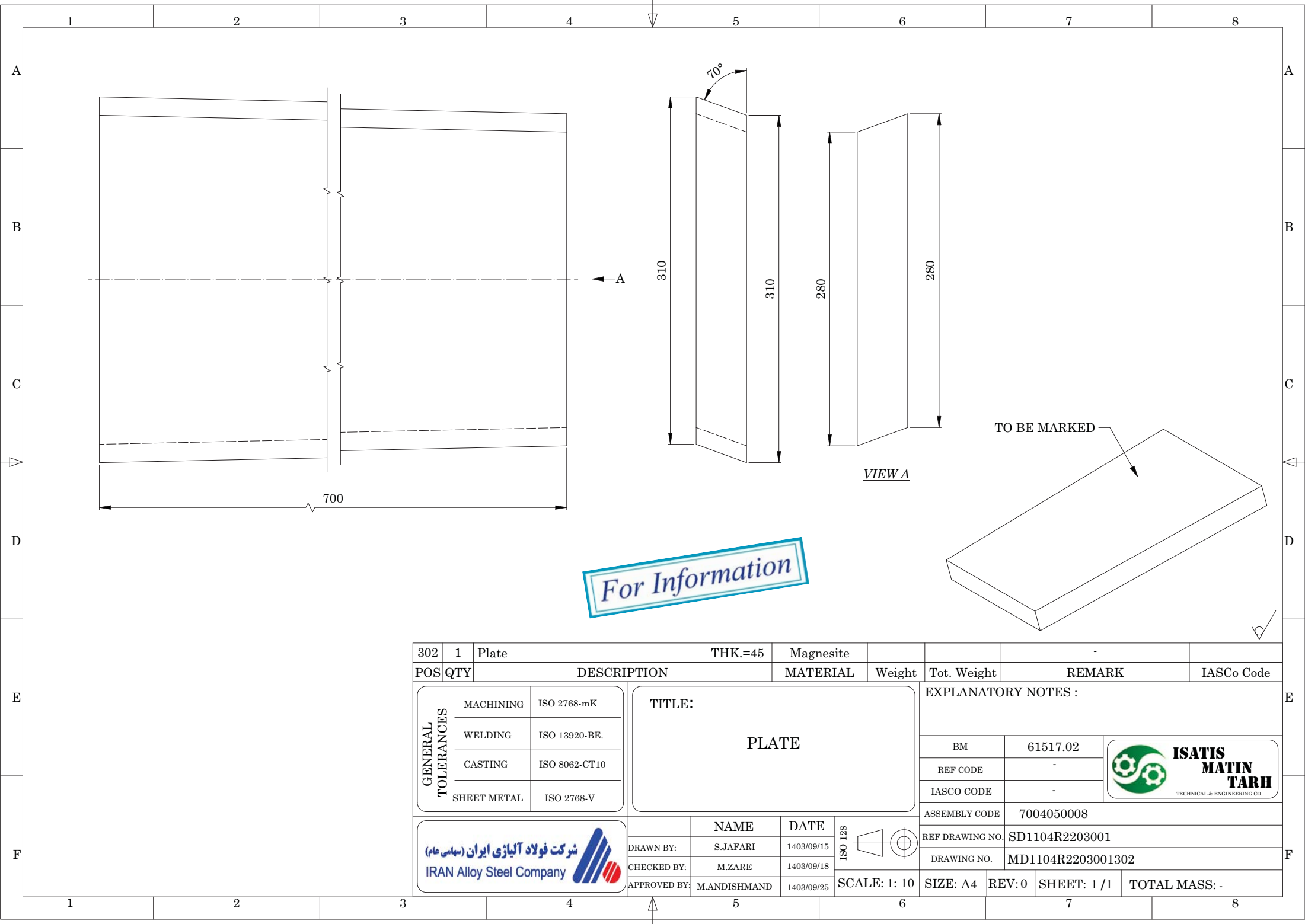
*TITLE : TUNDISH BOARD  
(GARNEX )*


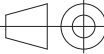
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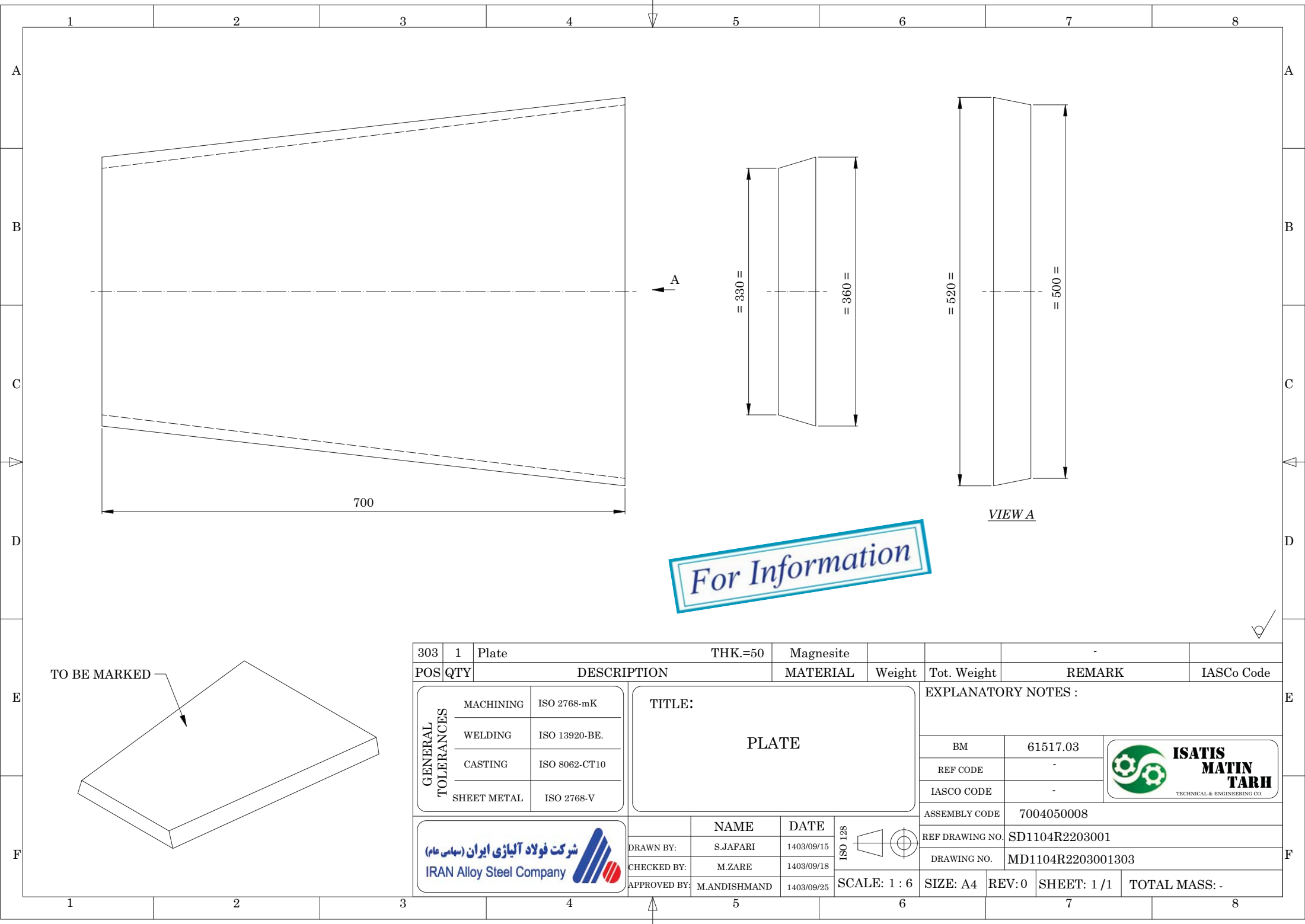
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301	1	Plate	THK.=50	Magnesite				-		
POS	QTY	DESCRIPTION			MATERIAL	Weight	Tot. Weight	REMARK	IASCo Code	
GENERAL TOLERANCES	MACHINING	ISO 2768-mK		TITLE:  PLATE			EXPLANATORY NOTES :			
	WELDING	ISO 13920-BE.								
	CASTING	ISO 8062-CT10								
	SHEET METAL	ISO 2768-V								
<div>شرکت فولاد آلیاژی ایران (سهامی عام)</div> <div>IRAN Alloy Steel Company</div> <div></div>					NAME	DATE	ISO 128			
				DRAWN BY:	S.JAFARI	1403/09/15				
				CHECKED BY:	M.ZARE	1403/09/18				
				APPROVED BY:	M.ANDISHMAND	1403/09/25				
				SCALE: 1 : 8		SIZE: A4			REV: 0	SHEET: 1 / 1
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				DRAWING NO.	MD1104R2203001301					
				BM	61517.01		<div></div> <div>ISATIS MATIN TARH</div> <div>TECHNICAL &amp; ENGINEERING CO.</div>			
				REF CODE	-					
				IASCO CODE	-					
				ASSEMBLY CODE		7004050008				


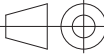



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GENERAL TOLERANCES	MACHINING	ISO 2768-mK		TITLE:  PLATE		EXPLANATORY NOTES :					
	WELDING	ISO 13920-BE.									
	CASTING	ISO 8062-CT10									
	SHEET METAL	ISO 2768-V									
<div>شرکت فولاد آلیاژی ایران (سهامی عام)</div> <div>IRAN Alloy Steel Company</div> 					NAME	DATE	ISO 128 				
				DRAWN BY:	S.JAFARI	1403/09/15		ASSEMBLY CODE		7004050008	
				CHECKED BY:	M.ZARE	1403/09/18		REF DRAWING NO.		SD1104R2203001	
				APPROVED BY:	M.ANDISHMAND	1403/09/25		DRAWING NO.		MD1104R2203001302	
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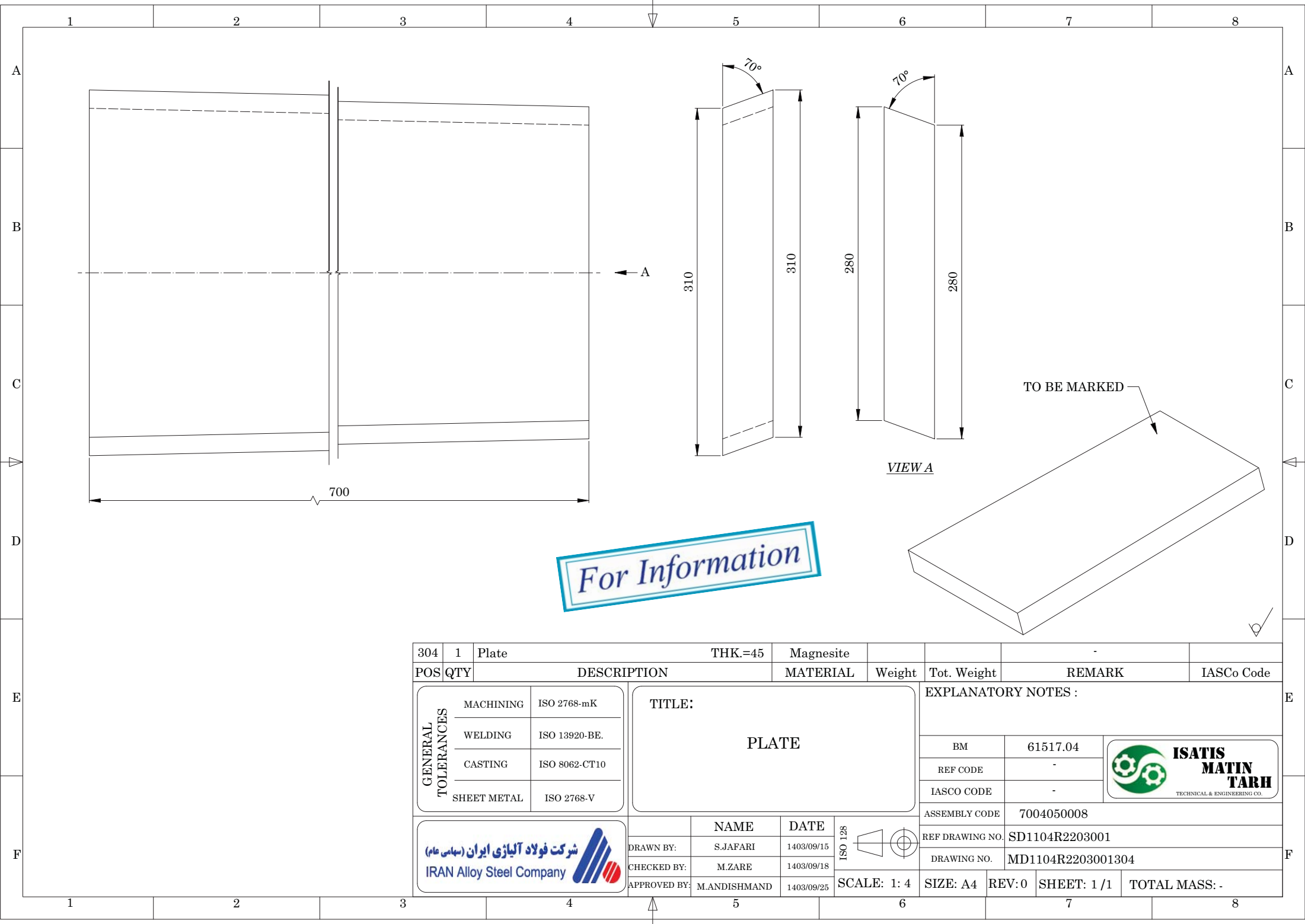



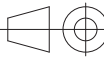

For Information

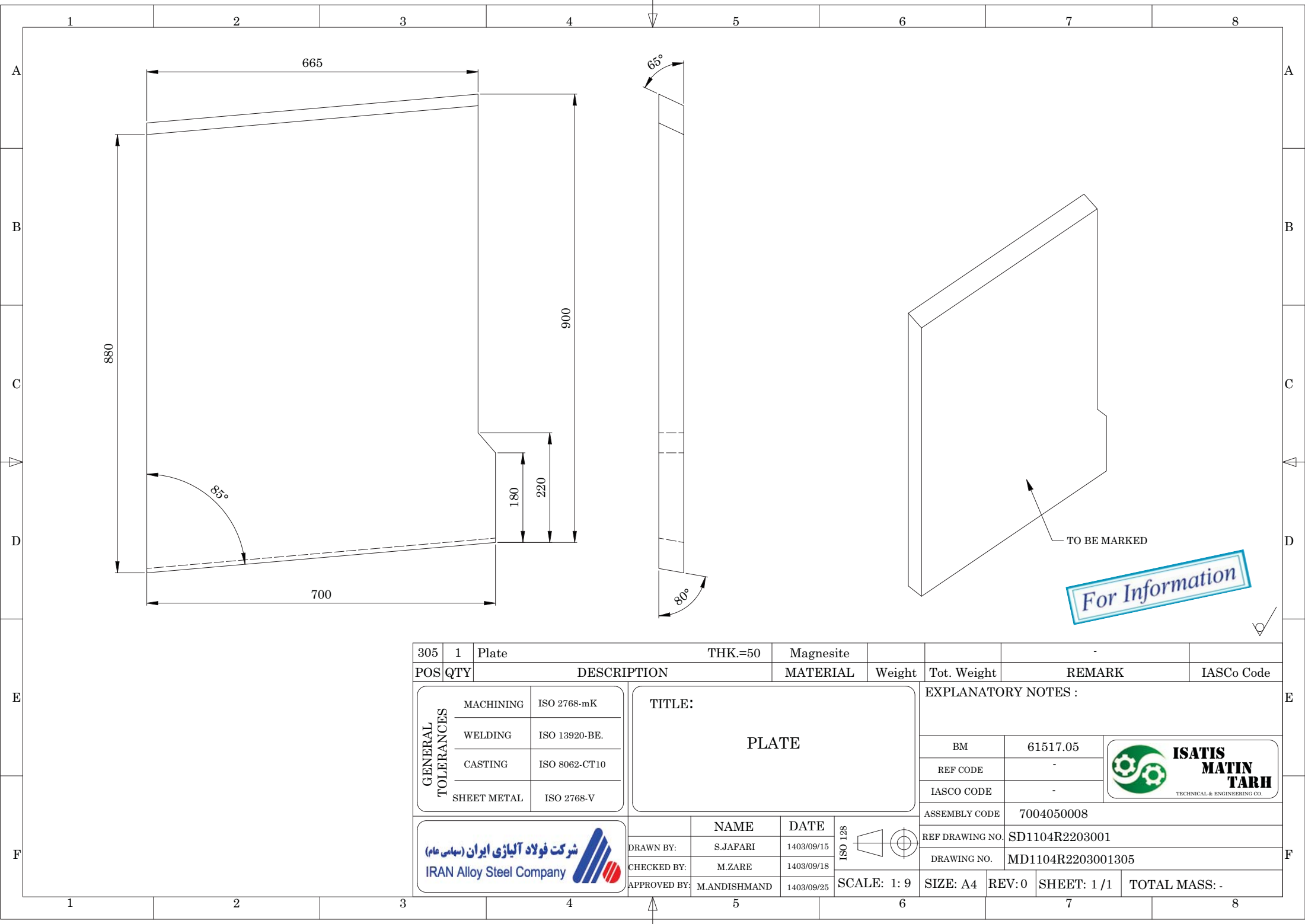
TO BE MARKED

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	WELDING	ISO 13920-BE.										
	CASTING	ISO 8062-CT10										
	SHEET METAL	ISO 2768-V										
<div>شرکت فولاد آلیاژی ایران (سهامی عام)</div> <div>IRAN Alloy Steel Company</div> 						NAME	DATE	ISO 128 	BM		61517.03	 <div>ISATIS MATIN TARH</div> <small>TECHNICAL &amp; ENGINEERING CO.</small>
									REF CODE	-		
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APPROVED BY:		M.ANDISHMAND	1403/09/25	SCALE: 1 : 6	SIZE: A4	REV: 0	SHEET: 1 / 1	TOTAL MASS: -				


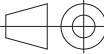


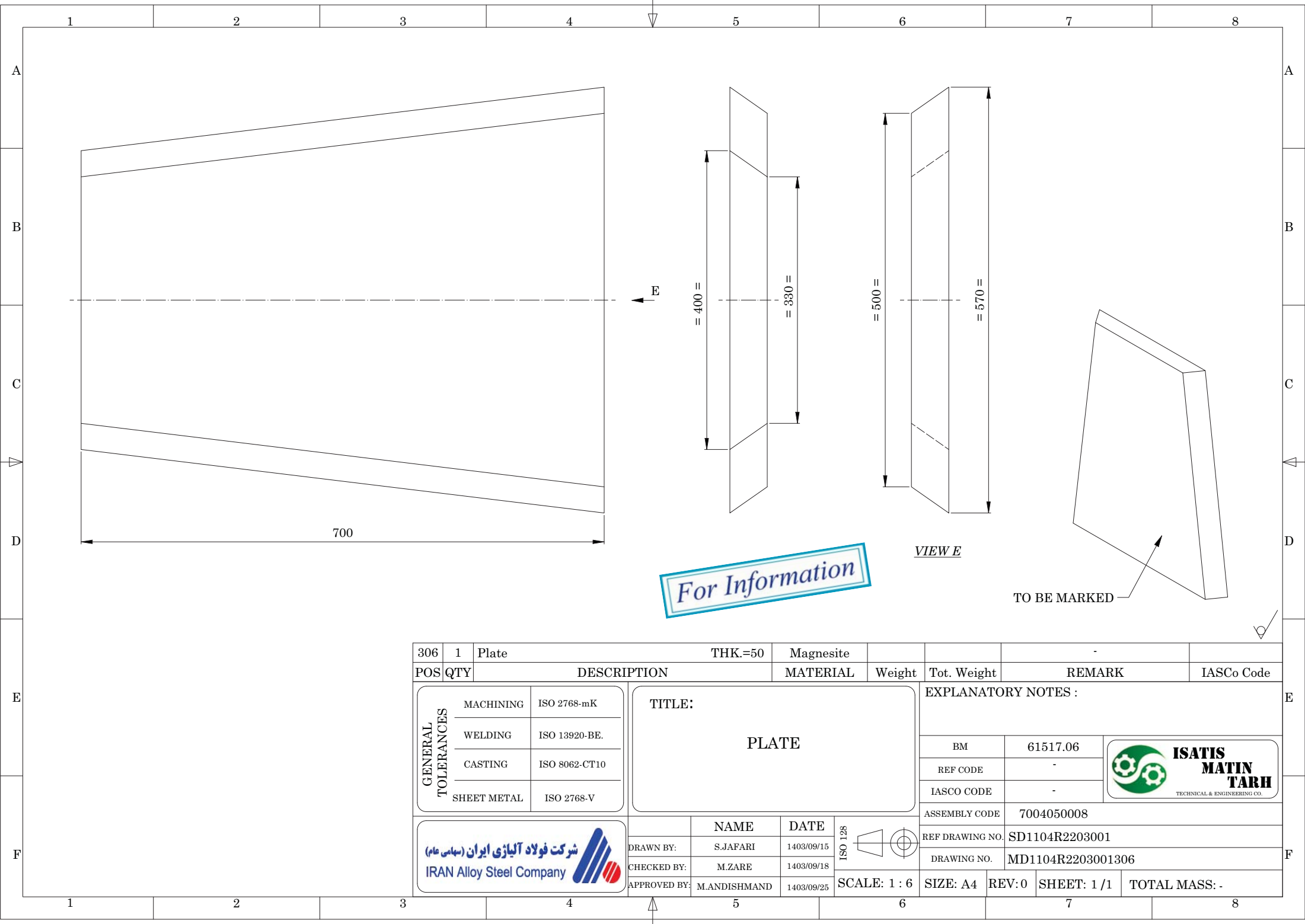


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	WELDING	ISO 13920-BE.									
	CASTING	ISO 8062-CT10									
	SHEET METAL	ISO 2768-V									
<div>شرکت فولاد آلیاژی ایران (سهامی عام)</div> <div>IRAN Alloy Steel Company</div> <div></div>					NAME	DATE	ISO 128		EXPLANATORY NOTES :		
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				APPROVED BY:	M.ANDISHMAND	1403/09/25			IASCO CODE	-	
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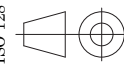
For Information

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	WELDING	ISO 13920-BE.									
	CASTING	ISO 8062-CT10									
	SHEET METAL	ISO 2768-V									
<div>شرکت فولاد آلیاژی ایران (سهامی عام)</div> <div>IRAN Alloy Steel Company</div> 					NAME	DATE	ISO 128 				
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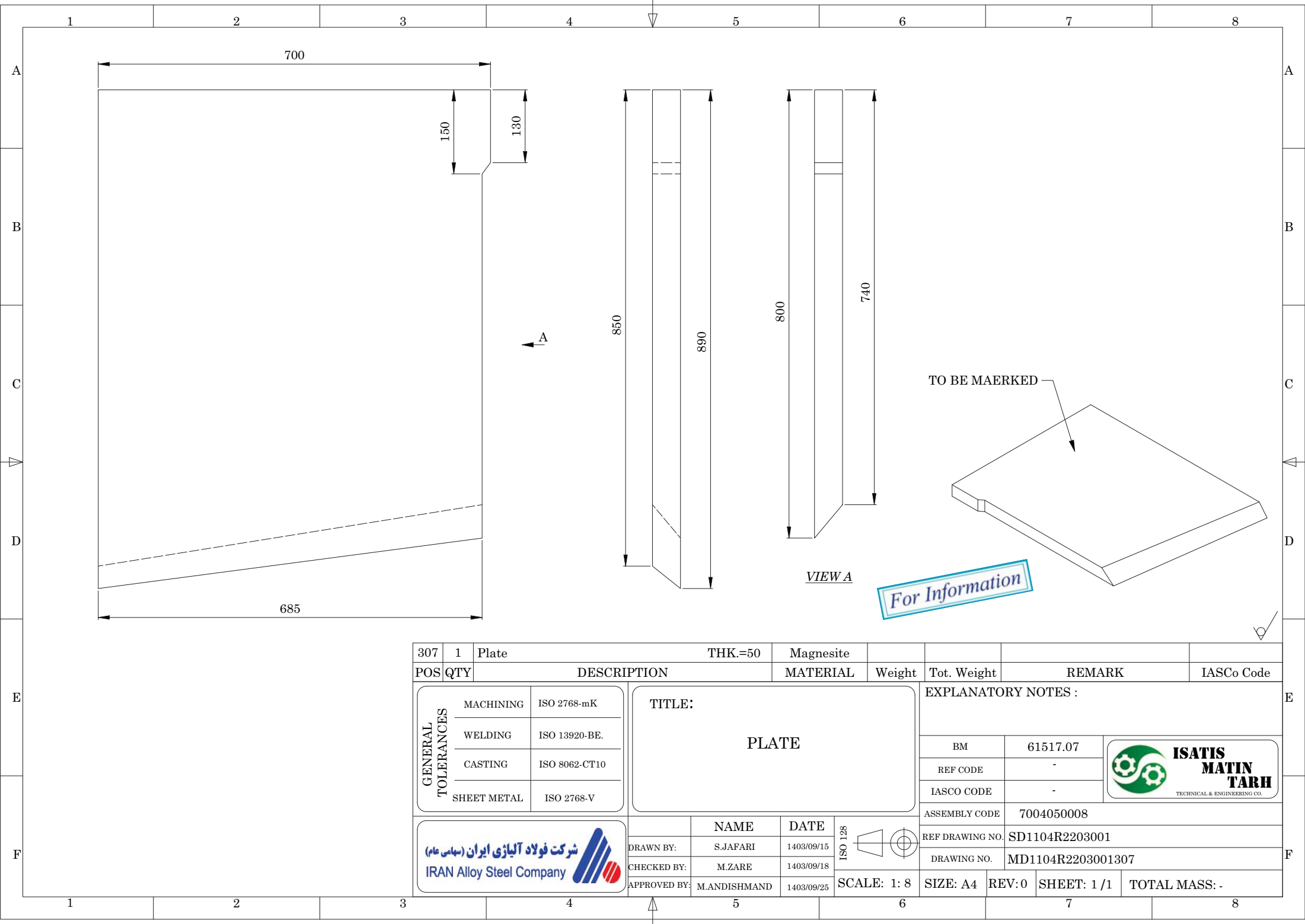



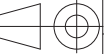

For Information

TO BE MARKED

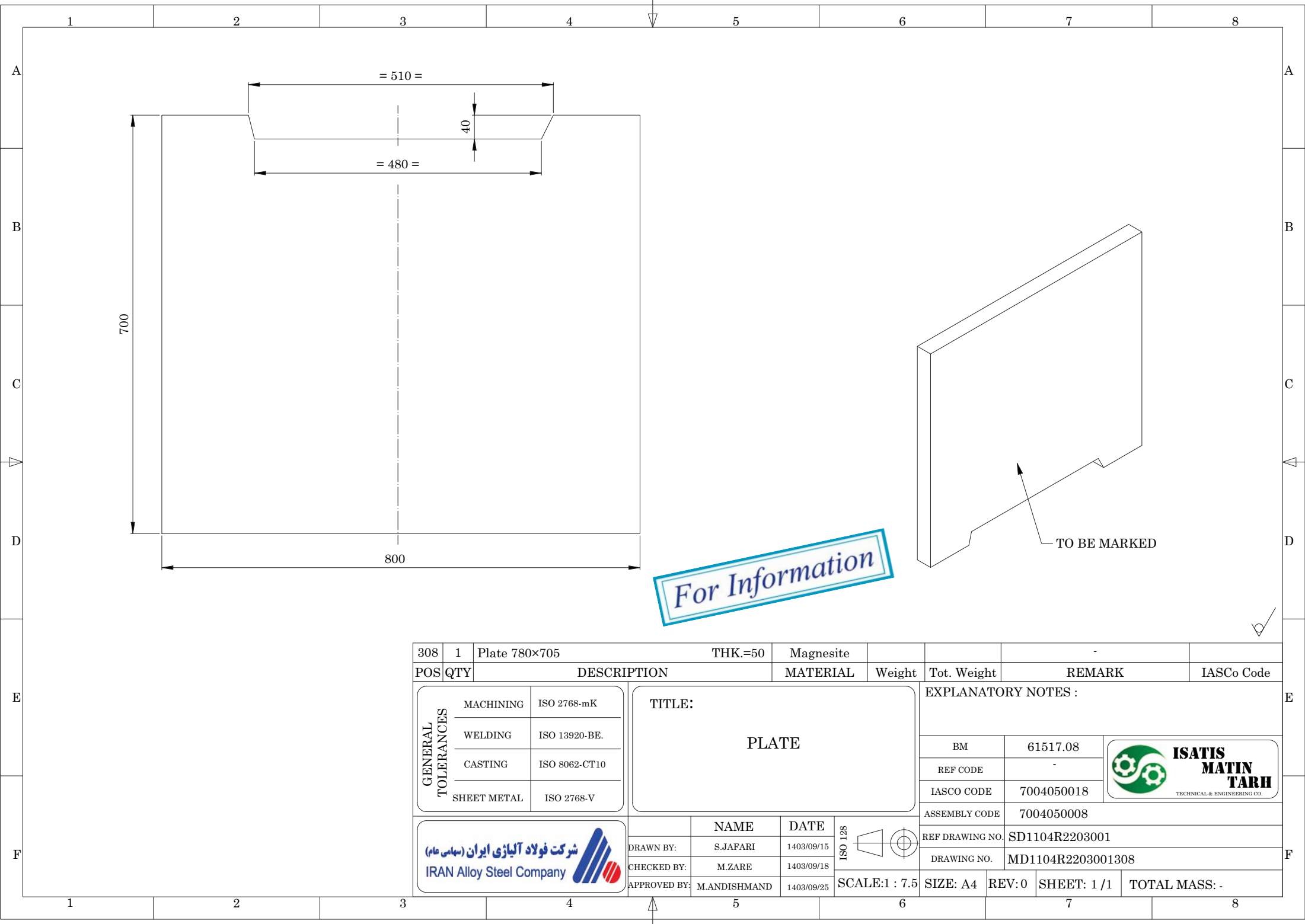
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	WELDING	ISO 13920-BE.												
	CASTING	ISO 8062-CT10												
	SHEET METAL	ISO 2768-V												
				NAME	DATE		ASSEMBLY CODE			7004050008				
			DRAWN BY:	S.JAFARI	1403/09/15		REF DRAWING NO.			SD1104R2203001				
			CHECKED BY:	M.ZARE	1403/09/18		DRAWING NO.			MD1104R2203001306				
			APPROVED BY:	M.MANDISHMAND	1403/09/25		SCALE: 1 : 6			SIZE: A4	REV: 0	SHEET: 1 / 1	TOTAL MASS: -	












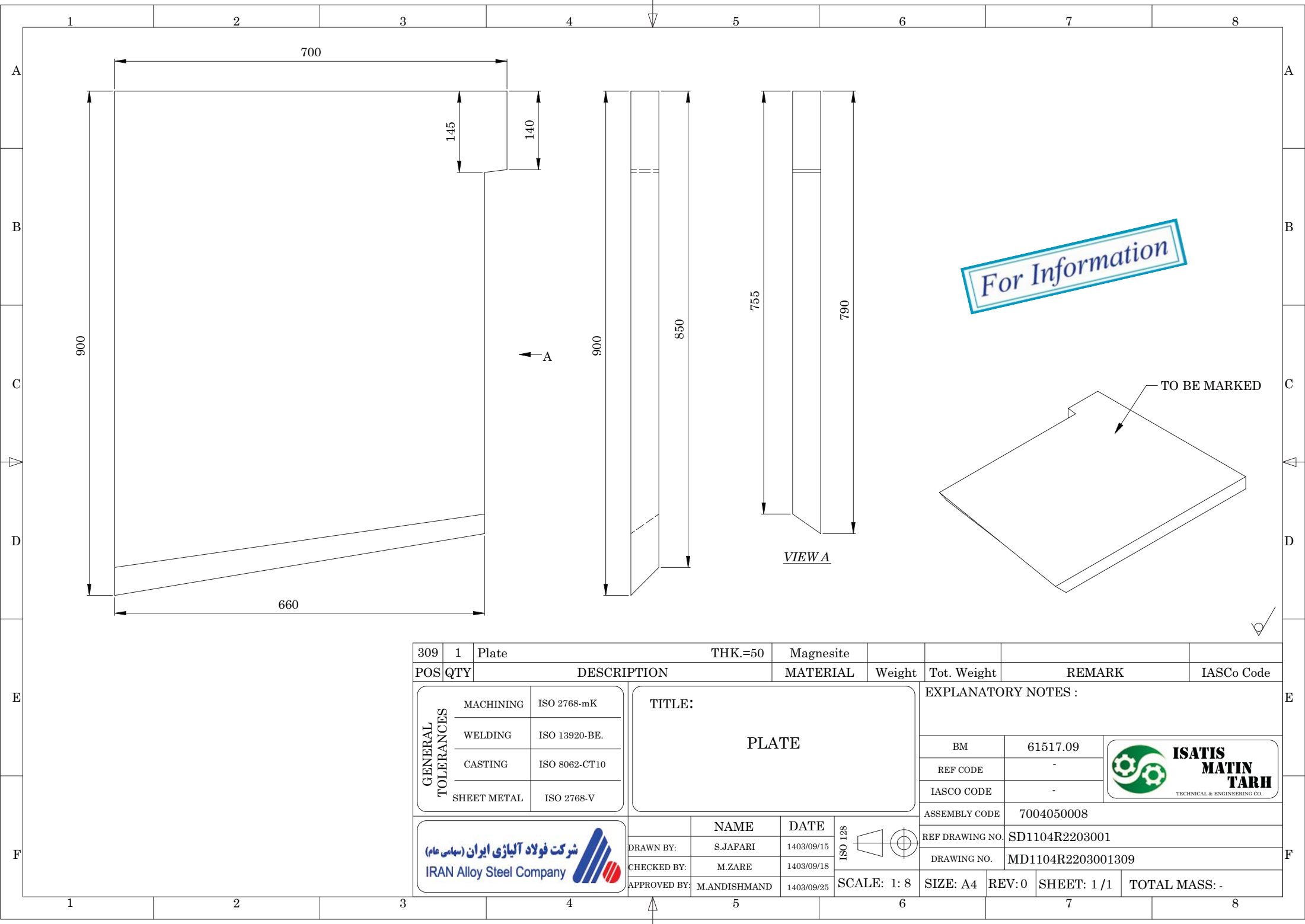
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GENERAL TOLERANCES	MACHINING	ISO 2768-mK		TITLE:  PLATE			EXPLANATORY NOTES :					
	WELDING	ISO 13920-BE.										
	CASTING	ISO 8062-CT10										
	SHEET METAL	ISO 2768-V										
<div>شرکت فولاد آلیاژی ایران (سهامی عام)</div> <div>IRAN Alloy Steel Company</div> 					NAME	DATE	ISO 128		BM		61517.07	 <div>ISATIS MATIN TARH</div> <small>TECHNICAL &amp; ENGINEERING CO.</small>
									REF CODE		-	
									IASCO CODE		-	
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DRAWING NO.		MD1104R2203001307										
DRAWN BY:		S.JAFARI	1403/09/15	SCALE: 1: 8	SIZE: A4	REV: 0	SHEET: 1 / 1	TOTAL MASS: -				
CHECKED BY:		M.ZARE	1403/09/18									
APPROVED BY:		M.ANDISHMAND	1403/09/25									








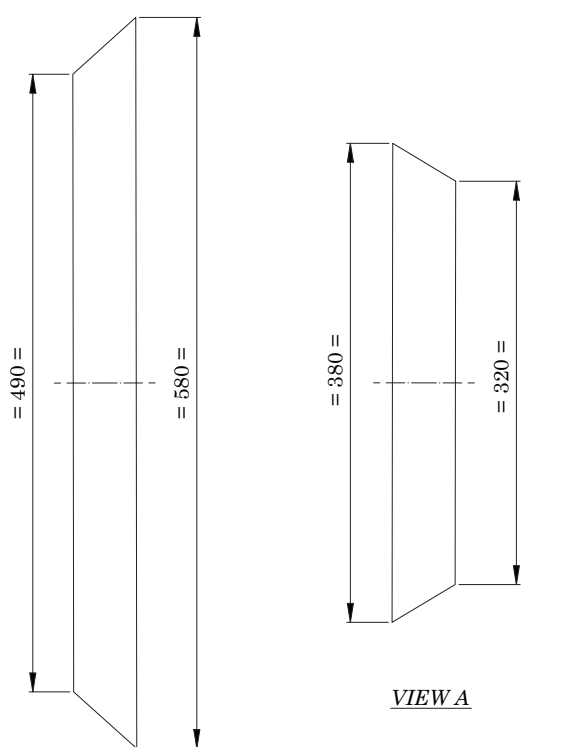
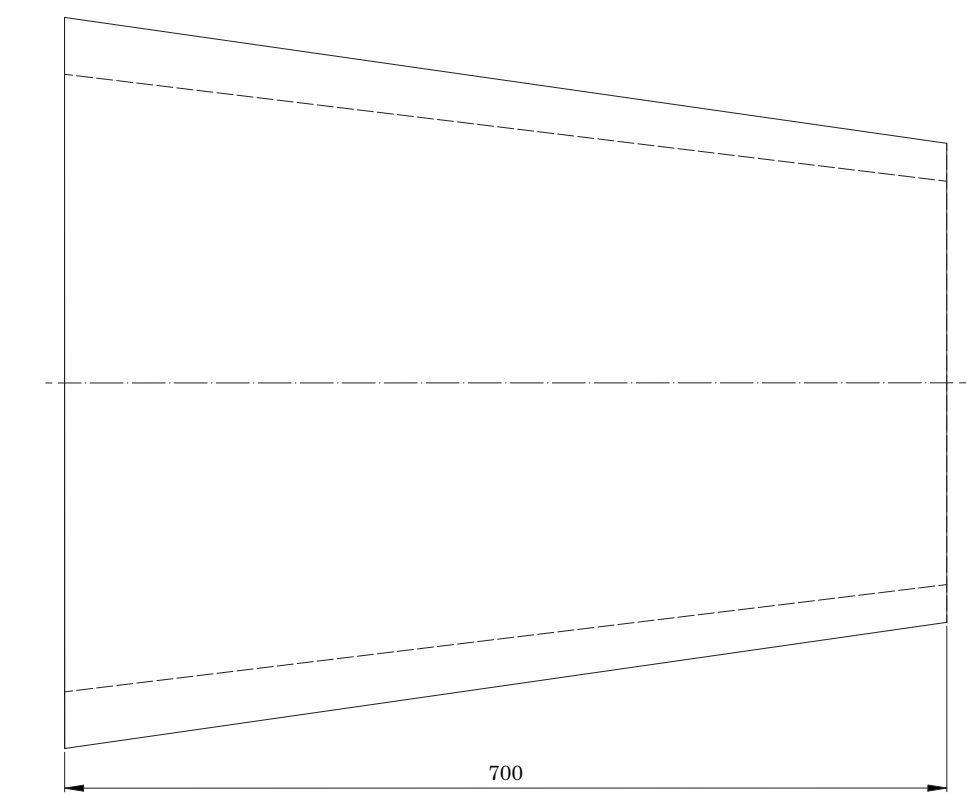
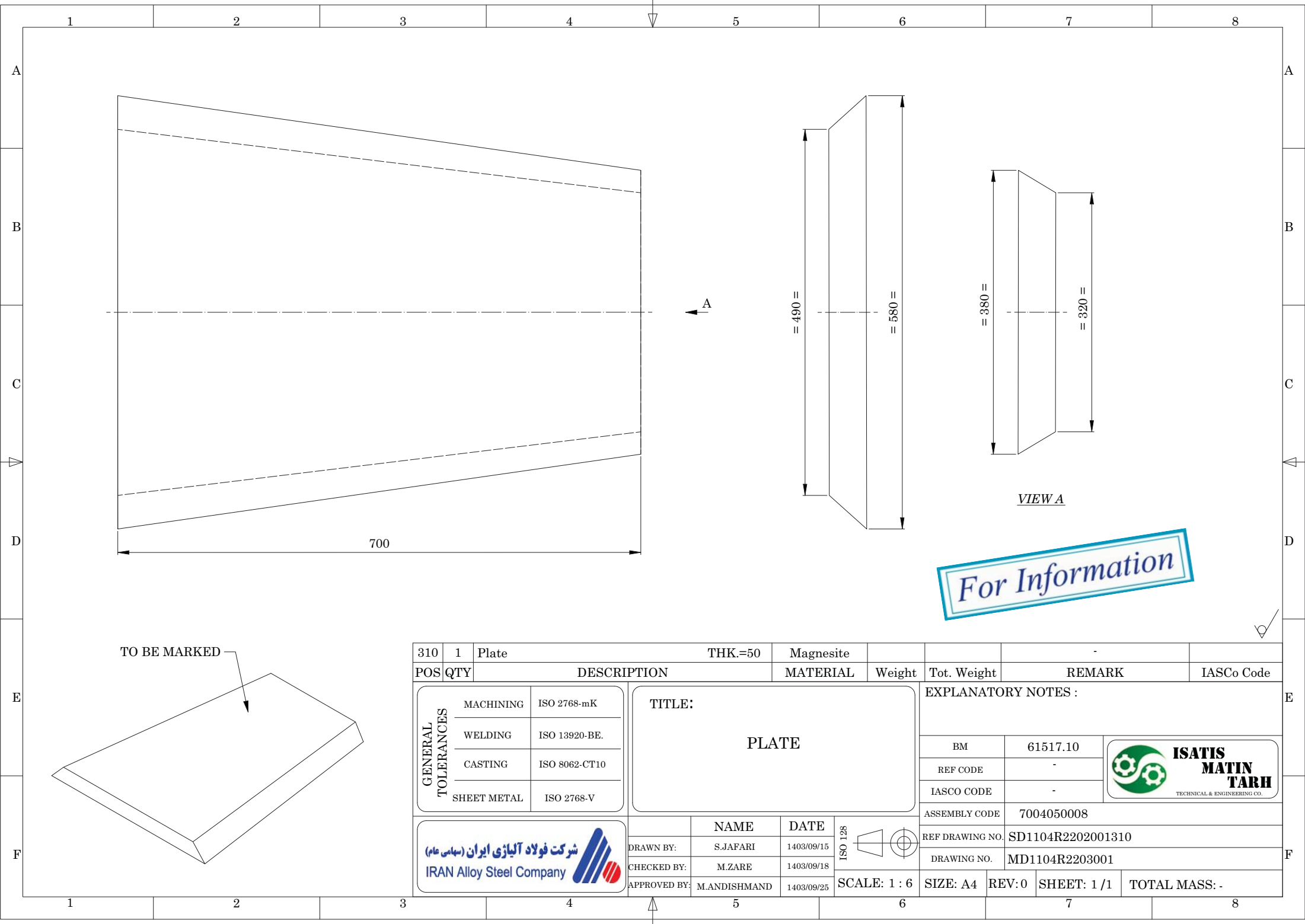


308	1	Plate 780×705		THK.=50	Magnesite				-																																	
POS	QTY	DESCRIPTION			MATERIAL	Weight	Tot. Weight	REMARK		IASCo Code																																
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	REF CODE	-																																								
	IASCO CODE	7004050018																																								
ASSEMBLY CODE		7004050008																																								
REF DRAWING NO.		SD1104R2203001																																								
DRAWING NO.		MD1104R2203001308																																								
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WELDING		ISO 13920-BE.																																								
CASTING		ISO 8062-CT10																																								
SHEET METAL		ISO 2768-V																																								
<div> شرکت فولاد آلیاژی ایران (سهامی عام) IRAN Alloy Steel Company</div>							NAME	DATE	ISO 128 																																	
DRAWN BY:		S.JAFARI	1403/09/15																																							
CHECKED BY:		M.ZARE	1403/09/18																																							
APPROVED BY:		M.ANDISHMAND	1403/09/25																																							

<b>Date:</b> 03/10/09 <b>Rev.:</b> 00		<b>Material Specification for</b> <b>Tundish Magnesia Board Part No.8</b>		 IRAN ALLOY STEEL CO.															
<b>ID code:</b> 7004050018		<b>Area:</b> Tundish		<b>Storage site:</b> PU 46															
<b>General properties</b>																			
<b>Basic Components:</b> Magnesia - Forsterite			<b>Bonding System:</b> Chemical-Ceramic Bond																
<b>Classification:</b> Board																			
<b>Chemical composition (wt. %):</b> <table border="0"> <tr><td>MgO</td><td>Min 75.0</td></tr> <tr><td>CaO</td><td>1.0-3.0</td></tr> <tr><td>SiO<sub>2</sub></td><td>Max 21.0</td></tr> <tr><td>Al<sub>2</sub>O<sub>3</sub></td><td>&lt;1.0</td></tr> <tr><td>Fe<sub>2</sub>O<sub>3</sub></td><td>2.0-3.0</td></tr> <tr><td>K<sub>2</sub>O (Na<sub>2</sub>O)</td><td>&lt;1.5</td></tr> <tr><td>L.O.I</td><td>&lt;2.0</td></tr> </table>			MgO	Min 75.0	CaO	1.0-3.0	SiO <sub>2</sub>	Max 21.0	Al <sub>2</sub> O <sub>3</sub>	<1.0	Fe <sub>2</sub> O <sub>3</sub>	2.0-3.0	K <sub>2</sub> O (Na <sub>2</sub> O)	<1.5	L.O.I	<2.0	<b>Fig.</b> 		
MgO	Min 75.0																		
CaO	1.0-3.0																		
SiO <sub>2</sub>	Max 21.0																		
Al <sub>2</sub> O <sub>3</sub>	<1.0																		
Fe <sub>2</sub> O <sub>3</sub>	2.0-3.0																		
K <sub>2</sub> O (Na <sub>2</sub> O)	<1.5																		
L.O.I	<2.0																		
			<b>Map No.:</b> SD1104R2203001																
<b>Sieve analysis /Dimension:</b> Max 1 mm																			
<b>Physical properties:</b> <table border="0"> <tr> <td>Bulk Density</td> <td>2.75-2.85</td> <td>g/cm<sup>3</sup></td> </tr> </table>						Bulk Density	2.75-2.85	g/cm <sup>3</sup>											
Bulk Density	2.75-2.85	g/cm <sup>3</sup>																	
<b>Mechanical/Thermal properties:</b> <table border="0"> <tr> <td>Cold Crushing Strength</td> <td>450-750</td> <td>kg/cm<sup>2</sup> at 110 °C</td> </tr> <tr> <td>Max Service Point</td> <td>1750</td> <td>° C</td> </tr> </table>						Cold Crushing Strength	450-750	kg/cm <sup>2</sup> at 110 °C	Max Service Point	1750	° C								
Cold Crushing Strength	450-750	kg/cm <sup>2</sup> at 110 °C																	
Max Service Point	1750	° C																	
<b>Remark:</b> Keep in dry place																			
<b>Packing:</b> On The Wooden Pallet																			
<b>Shelf life:</b> <input checked="" type="checkbox"/> 1 Year      NA <input type="checkbox"/>																			
<b>Life time:</b> It is necessary for this part to perform properly in continuous casting for at least 10 hours																			
<b>Quality Check:</b> Certificate from supplier and laboratory test																			
<b>Edited:</b> Ehsan Zarezadeh		<b>Checked:</b> Mehdi Eslampour		<b>Approved:</b> Vahid Saffarzadeh															

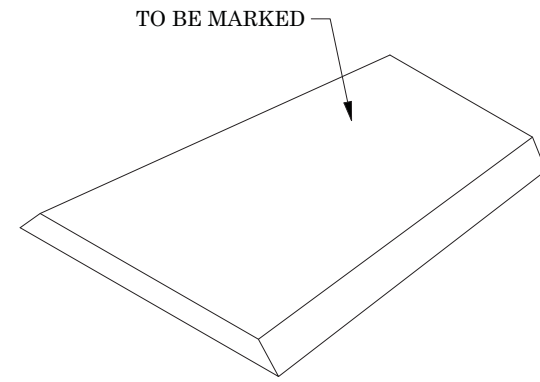



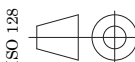
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POS	QTY	DESCRIPTION		MATERIAL	Weight	Tot. Weight	REMARK	IASCo Code																										
GENERAL TOLERANCES	MACHINING	ISO 2768-mK		TITLE:  PLATE		EXPLANATORY NOTES :  <table><tr><td>BM</td><td>61517.09</td><td rowspan="3"></td></tr><tr><td>REF CODE</td><td>-</td></tr><tr><td>IASCO CODE</td><td>-</td></tr><tr><td colspan="2">ASSEMBLY CODE</td><td colspan="2">7004050008</td></tr><tr><td colspan="2">REF DRAWING NO.</td><td colspan="2">SD1104R2203001</td></tr><tr><td colspan="2">DRAWING NO.</td><td colspan="2">MD1104R2203001309</td></tr><tr><td colspan="2">SCALE: 1: 8</td><td>SIZE: A4</td><td>REV: 0</td><td>SHEET: 1 / 1</td><td colspan="2">TOTAL MASS: -</td></tr></table>			BM	61517.09		REF CODE	-	IASCO CODE	-	ASSEMBLY CODE		7004050008		REF DRAWING NO.		SD1104R2203001		DRAWING NO.		MD1104R2203001309		SCALE: 1: 8		SIZE: A4	REV: 0	SHEET: 1 / 1	TOTAL MASS: -	
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	REF CODE	-																																
	IASCO CODE	-																																
ASSEMBLY CODE		7004050008																																
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SCALE: 1: 8		SIZE: A4	REV: 0	SHEET: 1 / 1	TOTAL MASS: -																													
WELDING	ISO 13920-BE.																																	
CASTING	ISO 8062-CT10																																	
SHEET METAL	ISO 2768-V																																	
																																		
	NAME	DATE	ISO 128 																															
DRAWN BY:	S.JAFARI	1403/09/15																																
CHECKED BY:	M.ZARE	1403/09/18																																
APPROVED BY:	M.ANDISHMAND	1403/09/25																																

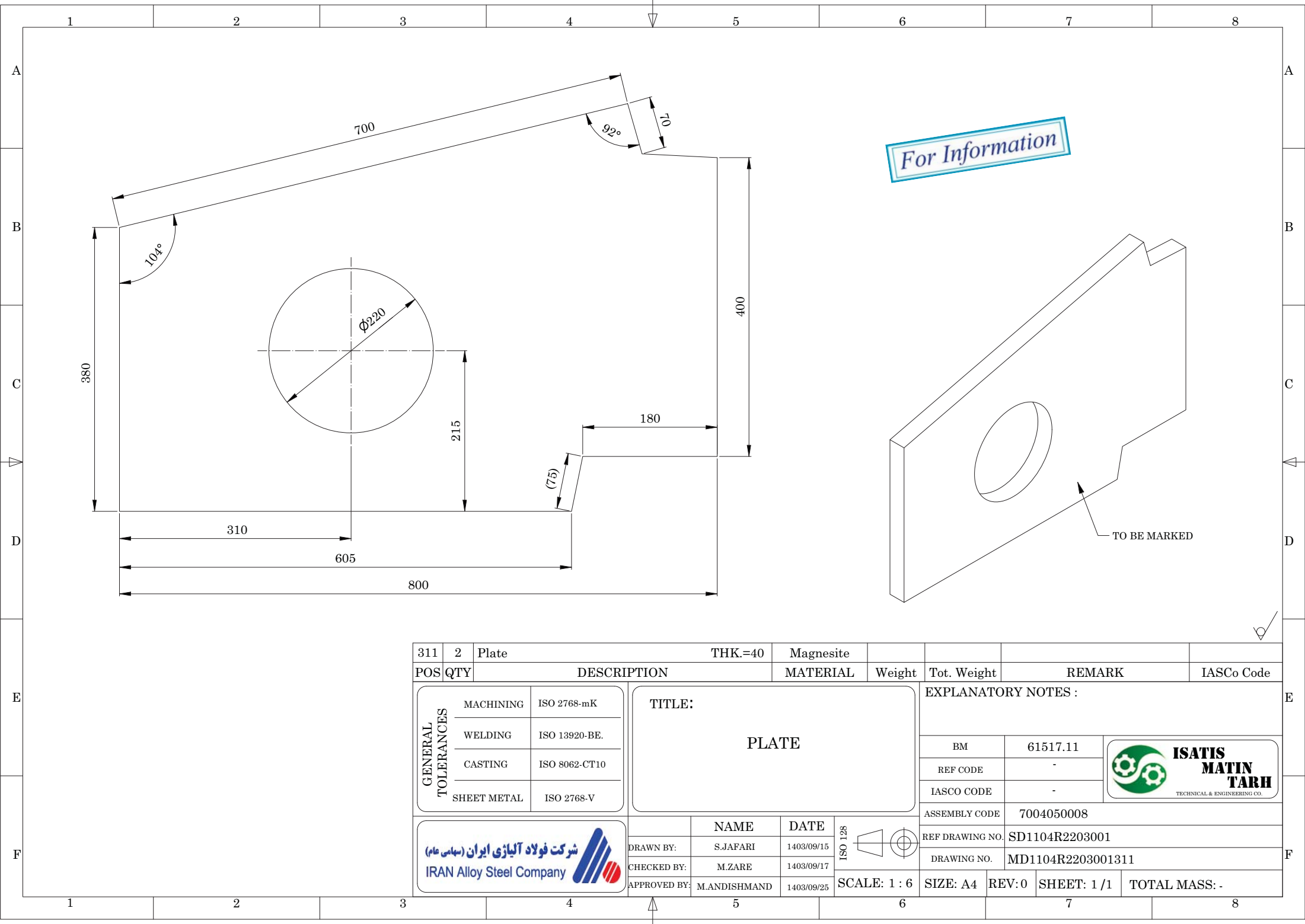


VIEW A





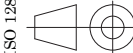
For Information



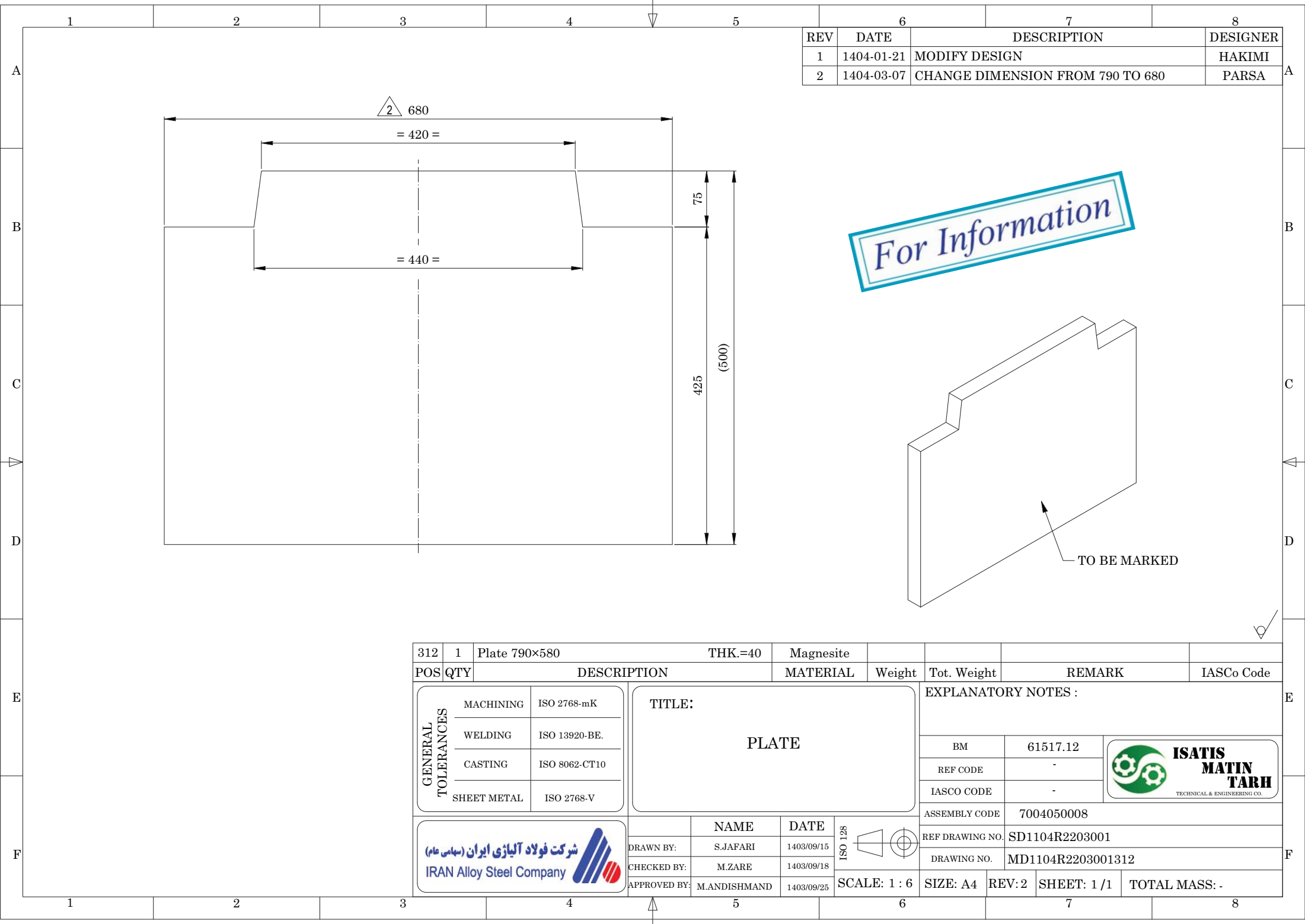
310	1	Plate	THK.=50	Magnesite			-	
POS	QTY	DESCRIPTION		MATERIAL	Weight	Tot. Weight	REMARK	IASCo Code
GENERAL TOLERANCES	MACHINING	ISO 2768-mK		TITLE:  PLATE		EXPLANATORY NOTES :		
	WELDING	ISO 13920-BE.						
	CASTING	ISO 8062-CT10						
	SHEET METAL	ISO 2768-V						
			NAME	DATE		ISATIS MATIN TARH <small>TECHNICAL &amp; ENGINEERING CO.</small>		
		DRAWN BY:	S.JAFARI	1403/09/15				
		CHECKED BY:	M.ZARE	1403/09/18				
		APPROVED BY:	M.ANDISHMAND	1403/09/25				
				SCALE: 1 : 6	SIZE: A4	REV: 0	SHEET: 1 / 1	TOTAL MASS: -








For Information

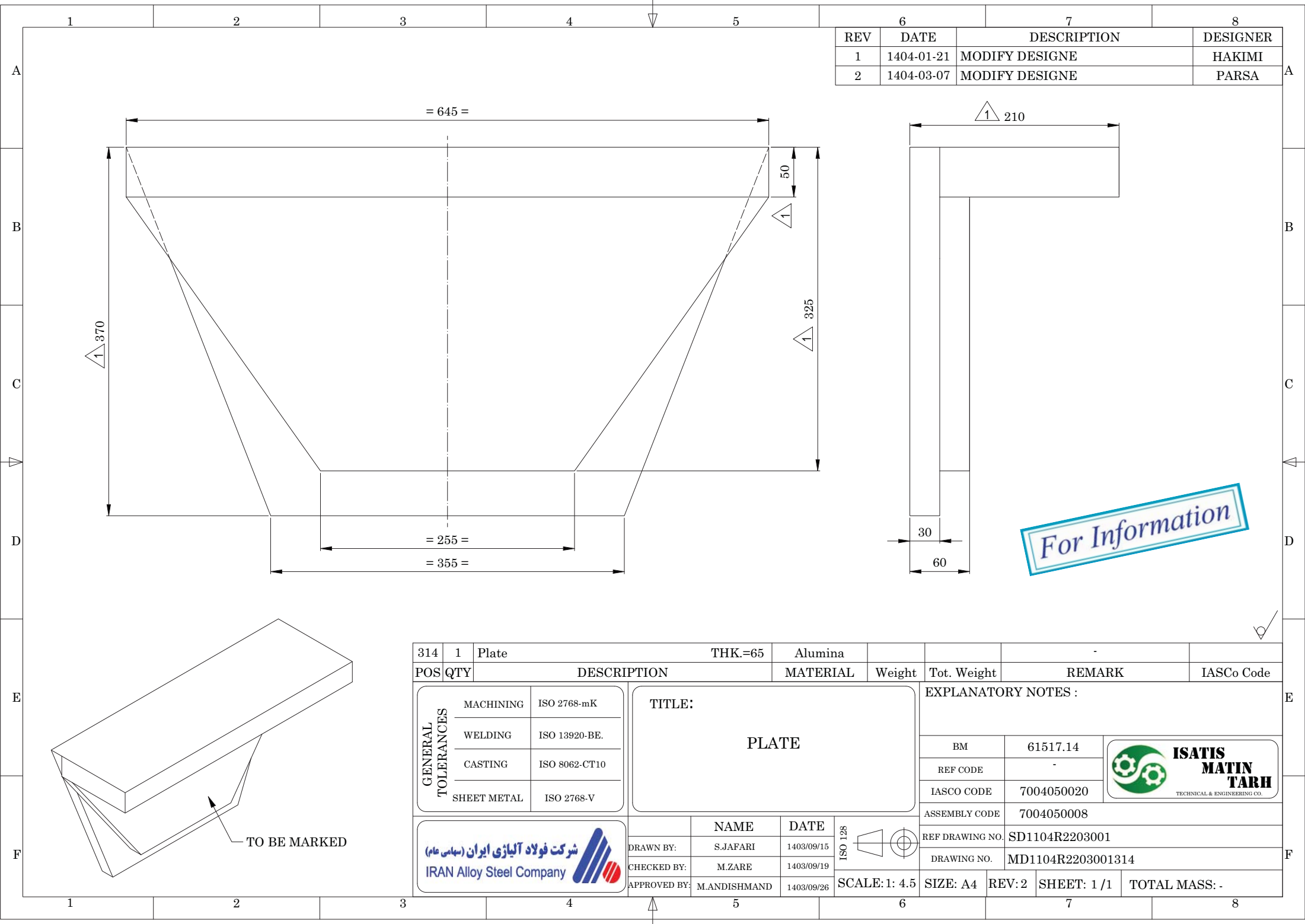
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	BM	61517.11														
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CASTING	ISO 8062-CT10															
	SHEET METAL	ISO 2768-V														
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				DRAWN BY:	S.JAFARI	1403/09/15		REF DRAWING NO.	SD1104R2203001							
				CHECKED BY:	M.ZARE	1403/09/17		DRAWING NO.	MD1104R2203001311							
				APPROVED BY:	M.MANDISHMAND	1403/09/25		SCALE: 1 : 6	SIZE: A4	REV:0	SHEET: 1 / 1	TOTAL MASS: -				







REV	DATE	DESCRIPTION	DESIGNER
1	1404-01-21	MODIFY DESIGN	HAKIMI
2	1404-03-07	CHANGE DIMENSION FROM 790 TO 680	PARSA

312	1	Plate 790×580	THK.=40	Magnesite																											
POS	QTY	DESCRIPTION		MATERIAL	Weight	Tot. Weight	REMARK		IASCo Code																						
GENERAL TOLERANCES	MACHINING	ISO 2768-mK		TITLE:  PLATE			EXPLANATORY NOTES :  <table><tr><td>BM</td><td>61517.12</td><td rowspan="3"></td></tr><tr><td>REF CODE</td><td>-</td></tr><tr><td>IASCO CODE</td><td>-</td></tr><tr><td colspan="2">ASSEMBLY CODE</td><td colspan="2">7004050008</td><td></td></tr><tr><td colspan="2">REF DRAWING NO.</td><td colspan="2">SD1104R2203001</td><td></td></tr><tr><td colspan="2">DRAWING NO.</td><td colspan="2">MD1104R2203001312</td><td></td></tr></table>			BM	61517.12		REF CODE	-	IASCO CODE	-	ASSEMBLY CODE		7004050008			REF DRAWING NO.		SD1104R2203001			DRAWING NO.		MD1104R2203001312		
	BM	61517.12																													
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REF DRAWING NO.		SD1104R2203001																													
DRAWING NO.		MD1104R2203001312																													
WELDING	ISO 13920-BE.																														
CASTING	ISO 8062-CT10																														
SHEET METAL	ISO 2768-V																														
					NAME	DATE	ISO 128 																								
				DRAWN BY:	S.JAFARI	1403/09/15																									
				CHECKED BY:	M.ZARE	1403/09/18																									
				APPROVED BY:	M.ANDISHMAND	1403/09/25		SCALE: 1 : 6	SIZE: A4	REV: 2	SHEET: 1 / 1	TOTAL MASS: -																			





REV	DATE	DESCRIPTION	DESIGNER
1	1404-01-21	MODIFY DESIGNE	HAKIMI
2	1404-03-07	MODIFY DESIGNE	PARSA

For Information

314	1	Plate	THK.=65	Alumina				-			
POS	QTY	DESCRIPTION			MATERIAL	Weight	Tot. Weight	REMARK	IASCo Code		
GENERAL TOLERANCES	MACHINING	ISO 2768-mK			TITLE:  PLATE						
	WELDING	ISO 13920-BE.									
	CASTING	ISO 8062-CT10									
	SHEET METAL	ISO 2768-V									
<div>شرکت فولاد آلیاژی ایران (سهامی عام)</div> <div>IRAN Alloy Steel Company</div> 					EXPLANATORY NOTES :						
					BM		61517.14				
					REF CODE		-				
					IASCO CODE		7004050020				
ASSEMBLY CODE		7004050008									
DRAWN BY:		S.JAFARI		1403/09/15		REF DRAWING NO.		SD1104R2203001			
CHECKED BY:		M.ZARE		1403/09/19		DRAWING NO.		MD1104R2203001314			
APPROVED BY:		M.ANDISHMAND		1403/09/26		SCALE: 1: 4.5		SIZE: A4	REV: 2	SHEET: 1 / 1	TOTAL MASS: -



Date: 04/03/12		Material Specification for Turbostop (Impact pad with wall)		 IRAN ALLOY STEEL CO.																
Rev.: 00																				
ID code : 7004050020		Area : Tundish		Storage site : PU 46																
General properties																				
Basic Components: Alumina-Bauxite			Bonding System: Chemical Bond																	
Classification: Precast																				
<b><u>Chemical composition (wt. %) :</u></b>  <table> <tr> <td>Al<sub>2</sub>O<sub>3</sub></td> <td>Min 80.0</td> </tr> <tr> <td>SiO<sub>2</sub></td> <td>Max 16.0</td> </tr> <tr> <td>TiO<sub>2</sub></td> <td>Max 2.5</td> </tr> <tr> <td>Fe<sub>2</sub>O<sub>3</sub></td> <td>Max 2.0</td> </tr> <tr> <td>CaO</td> <td>1.0-2.0</td> </tr> </table>			Al <sub>2</sub> O <sub>3</sub>	Min 80.0	SiO <sub>2</sub>	Max 16.0	TiO <sub>2</sub>	Max 2.5	Fe <sub>2</sub> O <sub>3</sub>	Max 2.0	CaO	1.0-2.0	<b><u>Fig.</u></b> 							
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SiO <sub>2</sub>	Max 16.0																			
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Fe <sub>2</sub> O <sub>3</sub>	Max 2.0																			
CaO	1.0-2.0																			
			<b><u>Map No.:</u></b> -																	
<b><u>Sieve analysis /Dimension:</u></b> - <b><u>Physical properties :</u></b> <table> <tr> <td>Pour Density</td> <td>Min 2.9</td> <td>g/cm<sup>3</sup></td> </tr> <tr> <td>Appearance Porosity</td> <td>-</td> <td>%</td> </tr> </table>						Pour Density	Min 2.9	g/cm <sup>3</sup>	Appearance Porosity	-	%									
Pour Density	Min 2.9	g/cm <sup>3</sup>																		
Appearance Porosity	-	%																		
<b><u>Mechanical/Thermal properties:</u></b> <table> <tr> <td>Permanent Linear Change</td> <td>-</td> <td>%</td> </tr> <tr> <td>Cold Crushing Strength</td> <td>Min 400</td> <td>kg/cm<sup>2</sup> at 1000 °C</td> </tr> <tr> <td>Hot Modulus of Rupture</td> <td>-</td> <td>kg/cm<sup>2</sup> at 1000 °C</td> </tr> <tr> <td>Thermal Conductivity</td> <td>-</td> <td>W/m.k at 1000 °C</td> </tr> <tr> <td>Max Service Point</td> <td>1700</td> <td>°C</td> </tr> </table>						Permanent Linear Change	-	%	Cold Crushing Strength	Min 400	kg/cm <sup>2</sup> at 1000 °C	Hot Modulus of Rupture	-	kg/cm <sup>2</sup> at 1000 °C	Thermal Conductivity	-	W/m.k at 1000 °C	Max Service Point	1700	°C
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Thermal Conductivity	-	W/m.k at 1000 °C																		
Max Service Point	1700	°C																		
<b><u>Remark:</u></b> - <b><u>Packing:</u></b> Pallet <b><u>Shelf life:</u></b> <input checked="" type="checkbox"/> 3 Year      NA <input type="checkbox"/> <b><u>Quality Check:</u></b> Certificate from supplier and laboratory test																				
<b>Edited:</b> Ehsan Zarezadeh		<b>Checked:</b> Mehdi Eslampour		<b>Approved:</b> Vahid Saffarzadeh																



# TECHNICAL SPECIFICATION DOCUMENT

EMPLOYER: IRAN ALLOY STEEL CO.  
CONTRACTOR: ISATIS MATIN TARH CO.

## بسته بندی و انبار داری :

صندوق چوبی	جعبه چوبی	کارتن	پایه یا پالت چوبی	حمل به صورت بانديل	حمل بدون بسته بندی
					
			OK		

### شرایط محافظت از سطوح قطعه :

سطوح ماشین کاری تلماسیافته به روغن یا گریس شوند .	
سطوح ماشین کاری تلماسی با پلاستیک ضربه گیر محافظت شوند .	

### نکات انبارداری :

دور از تابش مستقیم نور باشد .	
نگهداری در انبار رو باز بلا مانع می باشد .	
قطعه شکستنی می باشد .	
دور از رطوبت نگهداری شود .	OK
جهت جابجایی فقط از مکان های مجاز قابل حمل می باشد .	
ورودی و خروجی لوله ها با درپوش بسته باشد .	

توضیحات :