

Lampiran 4
Sertifikat Bahan



MILL TEST CERTIFICATE

COMMODITY: STAINLESS STEEL HOT ROLLED PLATES NO.1 FINISH, AS PER AISI 304
PRIME QUALITY, SLITTING EDGE.
SPEC/GRADE: AISI 304
CUSTOMER:

CERTIFICATE NO.: PTTW650301T07-2
Date:
Invoice No. STID090301T07

PRODUCT ID	Chemical Composition (%)										Mechanical Properties				
	C	Si	Mn	P	S	Ni	Cr	N	Mo	Cu	TS (N/mm ²)	YS (0.2%) (N/mm ²)	EL (%)	HRB	HV
A12936000000	0.046	0.33	1.01	0.025	0.004	8.10	18.17	-	-	-	700	281	53	84	
A12936000000	0.046	0.33	1.01	0.025	0.004	8.10	18.17	-	-	-	700	281	53	84	
A12936000000	0.046	0.33	1.01	0.025	0.004	8.10	18.17	-	-	-	700	281	53	84	
A12936000000	0.046	0.33	1.01	0.025	0.004	8.10	18.17	-	-	-	700	281	53	84	
A12936000000	0.046	0.33	1.01	0.025	0.004	8.10	18.17	-	-	-	700	281	53	84	
15104643	0.052	0.49	1.08	0.026	0.003	8.02	18.14	0.059	0.11	0.28	646	282	54	83	
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PRODUCT ID	HEAT NO.	SIZE					PIECES	QUANTITY(MT)		Remarks					
A12936000000	CN001	4mm X 4' X 8'					24	2.186		Manager of Quality Assurance Department YIEH CORPORATION LIMITED C.K. Wang					
A12936000000	CN001	4mm X 4' X 8'					24	2.196							
A12936000000	CN001	4mm X 4' X 8'					24	2.210							
A12936000000	CN001	4mm X 4' X 8'					24	2.236							
A12936000000	CN001	4mm X 4' X 8'					24	2.252							
15104643	3F746	10mm X 4' X 8'					20	2.320							
15104643	3F746	10mm X 4' X 8'					20	2.322							
15104643	3F746	10mm X 4' X 8'					20	2.322							
15104643	3F746	10mm X 4' X 8'					20	2.328							
15104643	3F746	10mm X 4' X 8'					20	2.342							
TOTAL :						220	22.714								

We hereby certify that material described herein has been manufactured and tested with satisfactory result in accordance with the requirement of the above material specification.

Manager of Quality Assurance Department
YIEH CORPORATION LIMITED

C.K. Wang



Lampiran 3

Foto Alat Penelitian

1. Mesin Las SMAW



2. Gerinda Mesin



2. Mesin Frais



4. Alat Uji Impact Charpy



5. Mesin Las SMAW



Lampiran 2

Foto Spesimen Pengujian *Impact*

1. Foto Spesimen Sebelum Dilakukan Pengujian *Impact*



2. Foto Patahan Spesimen 90 A



3. Foto Patahan Spesimen 100 A



4. Foto Patahan Spesimen 110 A



5. Foto Patahan Spesimen 120 A



Lampiran 1

Keterangan Hasil Pengujian



LABORATORIUM UJI LOGAM
JURUSAN TEKNIK MESIN FAKULTAS TEKNIK
UNIVERSITAS MERDEKA MALANG

LEMBAR DATA UJI KETAHANAN IMPAK

Nama	: Ikhsan Harry Susandi	Jenis Mesin	: Impact Testing Machine
NIM	: 105060200111029	Jenis bahan	: Stainless Steel A304
Hari/tanggal	: Jumat, 9 Desember 2014	Jenis Pengujian	: Charpy
Pukul	: 12.00	Bentuk Takikan	: V
Standar Uji	: ASTM E23		

Arus (Ampere)	Pengujian	p (mm)	l (mm)	t (mm)	h (mm)	A (mm ²)	Sudut Awal (α)	Sudut Akhir (β)	Nilai Impact (J/mm ²)
90	1	55	10	10	8	80	120	73	1,37
	2	55	10	10	8	80	120	53	2,13
	3	55	10	10	8	80	120	83	0,95
100	1	55	10	10	8	80	120	63	1,76
	2	55	10	10	8	80	120	57	1,99
	3	55	10	10	8	80	120	66	1,64
110	1	55	10	10	8	80	120	61	1,84
	2	55	10	10	8	80	120	58	1,94
	3	55	10	10	8	80	120	64	1,71
120	1	55	10	10	8	80	120	72	1,4
	2	55	10	10	8	80	120	63	1,76
	3	55	10	10	8	80	120	72	1,4

Sudut Simpangan Tanpa Beban	
Sudut α	Sudut β
120°	106°

Instruktur

Dr. Ir. R. Djoko Andrijono, M.T.

Malang, 9 Desember 2014
Peneliti,

Ikhsan Harry Susandi

Mengetahui,
Kepala Laboratorium Uji Logam

