

Kepada Yth

**PT. NAGA INDONESIA,
WONOGIRI**

Attn : Bp. Anes
Bp. Dono

Perihal : Laporan Hasil Tes Sample Trial Plywood 12 mm

No Laporan : 830 / NI / TEST / XII / 25

Dengan hormat,

Sebelumnya kami mengucapkan terima kasih atas kepercayaannya menggunakan produk dari PT.ARUKI. Semoga kerjasama yang telah terbina dengan baik selama ini, dimasa mendatang bisa lebih ditingkatkan lagi.

Sehubungan dengan tes sample trial plywood pada :

- Tanggal : 10 Desember 2025
- Type : WBP

Rincian hasilnya sebagai berikut :

- | | | |
|-----------------------------|-----------------------|-------------------------------|
| ➤ Delaminasi Type WBP | : Hasil Uji Terlampir | } Tes menurut Metode JAS 2018 |
| ➤ Bonding Strength Type WBP | : Hasil Uji Terlampir | |
| ➤ Moisture Content (M.C) | : Hasil Uji Terlampir | |
| ➤ Formaldehyde Emission | : Hasil Uji Terlampir | |

Kami sampaikan lagi bahwa tes sample yang dilakukan di PT. ARUKI hanya dimaksudkan untuk mengetahui kualitas sample produk yang dikirim oleh customer ARUKI dengan prosedur tes sesuai dengan permintaan customer. Dan PT. ARUKI tidak berwenang menjustifikasi kualitas produk dari sample yang dikirim ke PT. ARUKI. Oleh karena itu kami menyarankan agar produk tersebut diujikan kepada lembaga yang kompeten, independen dan berwenang untuk menjustifikasi serta mengeluarkan sertifikat kualitas produk dari pabrik Bapak.

Demikian yang dapat disampaikan, atas kerjasama yang baik, kami mengucapkan banyak terima kasih.

Surabaya, 16 Desember 2025
Hormat kami,


Yun Sunarto
Senior Manager



LAPORAN HASIL TES SAMPLE (TRIAL)

Tanggal laporan : 16 Desember 2025

Jenis Produk : Plywood 5 ply Type WBP

Tgl produksi : 10 Desember 2025

Tgl terima sample : 12 Desember 2025

Tgl test : 12 ~ 16 Desember 2025

Customer : PT. Naga Indonesia – Wonogiri

U.P. : Bp. Anes, Bp. Dono

Jenis Test : 1. Delaminasi Test Type WBP

2. Bonding Strength Test Type WBP

3. M.C (Moisture Content)

4. Formaldehyde Emission

Kesimpulan : ~ Delaminasi : ~ PASS Type WBP

~ Bonding Strength : ~ PASS Type WBP

~ Formaldehyde Emission : ~ Grade F*4

I. DETAIL SAMPLE

Kode tes	Tgl Produksi	Dimensi sample, mm	Komposisi	Jml ply	Jml sample, pcs	Keterangan
60	10 Desember 2025	12 x 400 x 400	S / S / S / S / S / S / S	7	3	Trial Plywood Phenol Full Sengon

Note : S = Sengon

Formula :

~ PL-60 : 100 Kg

~ F-5B : 12 Kg

~ Tp. Ayaka : 12 Kg

~ Komposisi kayu : (2.0 + 1.5 + 2.0 + 1.5 + 2.0 + 1.5 + 2.0) mm

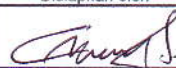
II. METODE TES

1. Delaminasi Test Type WBP
 2. Bonding Strength Test Type WBP
 3. M.C (Moisture Content)
 4. Formaldehyde Emission
- Menurut metode JAS 2018

III. HASIL TES

Kode tes	Delaminasi		Bonding Strength								M.C, %	Formaldehyde Emission (mg/L)	
	% pass	JUDGE MENT	Max		Min		Ave		% Pass	JUDGE MENT		Value	JUDGEMENT
			N/mm²	WF, %	N/mm²	WF, %	N/mm²	WF, %					
60	100%	PASS	0.94	10	0.70	10	0.83	15	100	PASS	12.7	0.30	F*4

Note : ~ Hasil tes diatas tidak dimaksudkan untuk menjustifikasi dalam sebuah lot produksi, tetapi hanya dimaksudkan untuk mengetahui kualitas sample sesuai dengan permintaan customer.
~ Hasil tes ini dilakukan di laboratorium PT. ARUKI.

Disiapkan oleh	Dicek oleh	Disetujui oleh
		
Nama : Cahyo	Nama : M. Taufichur	Nama : Tri Budi
Tgl : 16-12-26	Tgl : 16-12-25	Tgl : 16-12-25

DETAIL HASIL TES BONDING STRENGTH

Tanggal prod		10 Desember 2025	
Type Test		WBP	
Kode test		60	
Kriteria		BS(N/mm ²)	WF(%)
Core 1	1	0.83	30
	2	0.75	20
	3	0.90	10
	4	0.85	10
Core 2	1	0.80	20
	2	0.74	10
	3	0.93	20
	4	0.70	10
Core 3	1	0.94	10
	2	0.85	10
	3	0.88	20
	4	0.74	10
Max		0.94	10
Min		0.70	10
Ave		0.83	15
% pass		100	
Judgement		PASS	

DETIL HASIL UJI DELAMINASI PLYWOOD

No. Dokumen : QR-7.3/01-TEC-009

Revisi	:	0
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Tgl Eff.	2-Apr-07
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Tanggal Uji : 12 ~ 16 Desember 2025

Customer : PT. Naga Indonesia – Wonogiri

Kesimpulan : PASS

Tanggal Produksi : 10 Desember 2025

Ukuran Sample, mm

Type Delaminasi

Subyek / Variable

12 x 400 x 400

1000

sample test

Kode tes : 60

WBP

101

Saturant : mm DEL

Nomer Sample		1				2				3				4				5				6				7				8				9				10			
Glue Line / Side		a	b	c	d	a	b	c	d	a	b	c	d	a	b	c	d	a	b	c	d	a	b	c	d	a	b	c	d	a	b	c	d								
1		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0									
2		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0									
3		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0									
4		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0									
5		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0									
6		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0									
7																																									
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14																																									
Hasil		passed				passed				passed				passed				passed				passed				passed				passed				passed				passed			
Sebab Delainnass																																									

09

% Passed

JUDGEMENT

100%

PASS

[illegible]

Test	Score	% Passed
1. The following are the names of the three main branches of the federal government: Executive, Legislative, and Judicial.	100%	100%
2. The President of the United States is the head of the Executive branch.	100%	100%
3. The Congress is the name of the Legislative branch.	100%	100%
4. The Supreme Court is the highest court in the Judicial branch.	100%	100%
5. The President of the United States is elected for a term of four years.	100%	100%
6. The Congress is made up of the House of Representatives and the Senate.	100%	100%
7. The Supreme Court is made up of nine Justices.	100%	100%
8. The President of the United States has the power to appoint and remove federal judges.	100%	100%
9. The Congress has the power to pass laws.	100%	100%
10. The Supreme Court has the power to interpret the Constitution.	100%	100%
11. The President of the United States is the commander in chief of the armed forces.	100%	100%
12. The Congress has the power to declare war.	100%	100%
13. The Supreme Court has the power to review laws and executive actions to see if they are constitutional.	100%	100%
14. The President of the United States has the power to grant pardons.	100%	100%
15. The Congress has the power to regulate interstate commerce.	100%	100%
16. The Supreme Court has the power to hear appeals from state supreme courts.	100%	100%
17. The President of the United States has the power to appoint and remove federal judges.	100%	100%
18. The Congress has the power to pass laws.	100%	100%
19. The Supreme Court has the power to interpret the Constitution.	100%	100%
20. The President of the United States is the commander in chief of the armed forces.	100%	100%
21. The Congress has the power to declare war.	100%	100%
22. The Supreme Court has the power to review laws and executive actions to see if they are constitutional.	100%	100%
23. The President of the United States has the power to grant pardons.	100%	100%
24. The Congress has the power to regulate interstate commerce.	100%	100%
25. The Supreme Court has the power to hear appeals from state supreme courts.	100%	100%
26. The President of the United States has the power to appoint and remove federal judges.	100%	100%
27. The Congress has the power to pass laws.	100%	100%
28. The Supreme Court has the power to interpret the Constitution.	100%	100%
29. The President of the United States is the commander in chief of the armed forces.	100%	100%
30. The Congress has the power to declare war.	100%	100%
31. The Supreme Court has the power to review laws and executive actions to see if they are constitutional.	100%	100%
32. The President of the United States has the power to grant pardons.	100%	100%
33. The Congress has the power to regulate interstate commerce.	100%	100%
34. The Supreme Court has the power to hear appeals from state supreme courts.	100%	100%
35. The President of the United States has the power to appoint and remove federal judges.	100%	100%
36. The Congress has the power to pass laws.	100%	100%
37. The Supreme Court has the power to interpret the Constitution.	100%	100%
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39. The Congress has the power to declare war.	100%	100%
40. The Supreme Court has the power to review laws and executive actions to see if they are constitutional.	100%	100%
41. The President of the United States has the power to grant pardons.	100%	100%
42. The Congress has the power to regulate interstate commerce.	100%	100%
43. The Supreme Court has the power to hear appeals from state supreme courts.	100%	100%
44. The President of the United States has the power to appoint and remove federal judges.	100%	100%
45. The Congress has the power to pass laws.	100%	100%
46. The Supreme Court has the power to interpret the Constitution.	100%	100%
47. The President of the United States is the commander in chief of the armed forces.	100%	100%
48. The Congress has the power to declare war.	100%	100%
49. The Supreme Court has the power to review laws and executive actions to see if they are constitutional.	100%	100%
50. The President of the United States has the power to grant pardons.	100%	100%
51. The Congress has the power to regulate interstate commerce.	100%	100%
52. The Supreme Court has the power to hear appeals from state supreme courts.	100%	100%
53. The President of the United States has the power to appoint and remove federal judges.	100%	100%
54. The Congress has the power to pass laws.	100%	100%
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56. The President of the United States is the commander in chief of the armed forces.	100%	100%
57. The Congress has the power to declare war.	100%	100%
58. The Supreme Court has the power to review laws and executive actions to see if they are constitutional.	100%	100%
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80. The President of the United States has the power to appoint and remove federal judges.	100%	100%
81. The Congress has the power to pass laws.	100%	100%
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86. The President of the United States has the power to grant pardons.	100%	100%
87. The Congress has the power to regulate interstate commerce.	100%	100%
88. The Supreme Court has the power to hear appeals from state supreme courts.	100%	100%

JUDGEMENT

[illegible]

JUDGEMENT

Standard : Del

% Pass Delimited

6/6/85 <

70-89

< 70 %

PASS

RETEST

REJECT

Diwi oleh:

Diperiksa oleh:

**PT DOVER CHEMICAL**

Jalan Raya Merak Km.117, Merak, Banten – Indonesia

Tel: +62 254 571064 Fax: +62 254 571224

Our reference: -

Date: January 05, 2026

PT. Naga Indonesia Plywood

Jl. Songgorunggi Jatipuro Km 14

Desa Munjung Kec. Wonogiri Kab. Wonogiri

Attn :Bp. Anes

Dear Sir,

With reference to the above, enclosed is the test result for **Platform Type Special All Sengon and All Karet**, according to MAFF notification No.0233, 2024 (JAS 2024 for Plywood)

Formaldehyde emission classification according to JAS 2024 for Plywood:

Class of performance	Average value (mg/L)	Maximum value (mg/L)
F****	0.3	0.4
F***	0.5	0.7
F**	1.5	2.1
F*	5.0	7.0

Bonding Strength test method according to JAS 2024 for Plywood:

Classification	Bonding Strength Test Method
Continuous Boiling Test (Type Special)	Test pieces are immersed in hot water of $100 \pm 2^\circ\text{C}$ for 72 hours then immersed in water at room temperature until get cool, and tested in wet condition.

Delamination test method according to Continuous Boiling Test (JAS 2024 For Plywood):

Classification	Delamination Test Method
Continuous Boiling Test	Test pieces are immersed in hot water of $100 \pm 2^\circ\text{C}$ for 72 hours, and then dried at the room temperature. A length of the part which is not delaminated in the same bonding layer of test piece shall be not less than 50 mm at each side.

Moisture content according to JAS 2024 for Plywood:

Standard	Moisture Content Test Method
Maximum 14 %	Measure mass of test piece and dry them in a dryer at temperature of $103 \pm 2^\circ\text{C}$, until its weight constant (mass different between two measurement not more than 0.1 %).

Comment:

- All sample **complied with F****** according to JAS 2024 for Plywood.
- All sample **complied with Type Special Bonding Strength** according to JAS 2024 for Plywood.
- All sample **complied with Continuous Boiling (JAS 2024 for Plywood)** for Delamination Test.
- All sample **complied with Moisture Content test** according to JAS 2024 for Plywood.

Thank you.

Yours sincerely,

SAID AFFIF

PT. Dover Chemical

Production Development Unit Laboratory

PT. Dover Chemical

(Tel: +62 254 571 064, Fax: +62 254 571 224, E-mail : development@dovechem.co.id)

**PT DOVER CHEMICAL**

Jalan Raya Merak Km.117, Merak, Banten – Indonesia

Tel: +62 254 571064 Fax: +62 254 571224

Our reference: -

Date: January 05, 2026

TEST REPORT

Report No. -	Job No. DC/001/I/2026
This report consists of 2 pages	Page 1 of 2
This report is not a certificate of quality and not an approval certificate. This report covers only to the sample supplied by clients to be tested at PT Dover Chemical. PT Dover Chemical was not responsible in selection of sample for testing. This testing is subject only to the sample supplied by the clients. This report or any part of it cannot be published or being use for any other purpose except with the permission from PT. Dover Chemical.	

CUSTOMER

Name and Address:

PT. Naga Indonesia Plywood

Jl. Songgorunghi Jatipuro Km 14

Desa Munjung Kec. Wonogiri Kab. Wonogiri

SAMPLE DESCRIPTION

Material Identity:

Platform Type Special All Sengon and All karet (PF 405)

Production 15 December 2025

Date of Receipt:

December 26, 2025

Dimension and Quantity:

4 Pcs *Platform* with dimension 6 (mm) x 400 (mm) x 400 (mm).

“ All Karet”

4 Pcs *Platform* with dimension 12.5 (mm) x 400 (mm) x 400 (mm).

“ All Sengon”

TEST METHOD

Purpose of test:

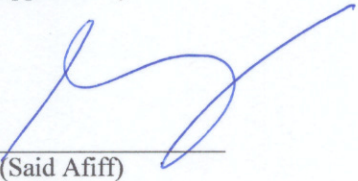
To determine Formaldehyde Emission, Bonding Strength, and Moisture Content according to JAS 2024 for plywood, and Delamination according to Continues Boiling Test (JAS 2024 for Plywood).

Sampling and testing Method:

Upon arrival, the samples were tested according to specified standards.

Days of conditioning: 5 days

Date of testing : December 29, 2025 – January 02, 2026.

Prepared by:	Checked by:	Approved by:
		
(Desi Usmanizar) Supervisor	(Adia Syatri) Asst. Manager	(Said Afiff) Manager

Production Development Unit Laboratory

PT. Dover Chemical

(Tel: +62 254 571 064, Fax: +62 254 571 224, E-mail : development@dovechem.co.id)

**PT DOVER CHEMICAL**

Jalan Raya Merak Km.117, Merak, Banten – Indonesia

Tel: +62 254 571064 Fax: +62 254 571224

Our reference: -

Date: January 05, 2026

TEST REPORT

Report No. -	Job No. DC/001/I/2026
This report consists of 2 pages	Page 2 of 2
This report is not a certificate of quality and not an approval certificate. This report covers only to the sample supplied by clients to be tested at PT Dover Chemical. PT Dover Chemical was not responsible in selection of sample for testing. This testing is subject only to the sample supplied by the clients. This report or any part of it cannot be published or being use for any other purpose except with the permission from PT. Dover Chemical.	

TEST RESULT**Formaldehyde Emission:**

Sample	Formaldehyde Emission (mg/L)		Class
	Max	Ave	
Platform Type Special 6 (mm) " All Karet"	0.3	0.3	F****
Platform Type Special 12.5 (mm) " All Sengon"	0.3	0.2	F****

Bonding Strength Type Special test:

Sample	Bonding strength (N/mm ²)			Judgement (Pass)
	Ave	Max	Min	
Platform Type Special 6 (mm) " All Karet"	1.6	1.6	1.5	Pass
Platform Type Special 12.5 (mm) " All Sengon"	1.3	1.5	1.1	Pass

Continuous Boiling Delamination test:

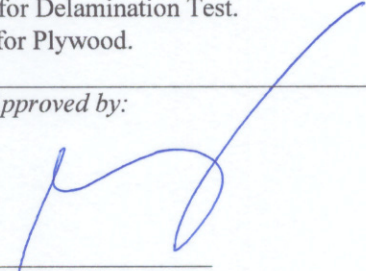
Sample	Delamination (% Pass)	Judgement
Platform Type Special 6 (mm) " All Karet"	100	Pass
Platform Type Special 12.5 (mm) " All Sengon"	100	Pass

Moisture Content:

Sample	Moisture Content (%)	Judgement
Platform Type Special 6 (mm) " All Karet"	10.1	Pass
Platform Type Special 12.5 (mm) " All Sengon"	9.9	Pass

Comment:

- All sample **complied with F****** according to JAS 2024 for Plywood.
- All sample **complied with** Type Special Bonding Strength according to JAS 2024 for Plywood.
- All sample **complied with** Continuous Boiling (JAS 2024 for Plywood) for Delamination Test.
- All sample **complied with** Moisture Content test according to JAS 2024 for Plywood.

Prepared by:  (Desi Usmanizar) Supervisor	Checked by:  (Adia Syatri) Asst. Manager	Approved by:  (Said Afiff) Manager
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Production Development Unit Laboratory

PT. Dover Chemical

(Tel: +62 254 571 064, Fax: +62 254 571 224, E-mail : development@dovechem.co.id)



PT. GELORA CITRA KIMIA ABADI

JL. Raya Kranggan Pringsurat Km. 2
Ds. Nguwet - Kranggan - Temanggung
Email : ptgcka.tmg@gmail.com

FORMALDEHYDE EMMISION REPORT

Serial No. 05 / QCLAB / I / 26

Supplier Sample : **PT. Naga Indonesia**
Thickness / Size : 3,0 x 400 x 400 mm (3 ply)
Types of Glue : T2 E0
Test Method : JAS for PLYWOOD, 2018
Production Date : January 6, 2026
Date of Test : January 09 – 10 2026
Code :

Sample	Wood Species			Absorbance		Concentration (mg/L)				Class
	F / B	S / C	-	Blanko	Sample	Concent	Max	Min	Average	
1	All Alba			0,006	0,058	0,42	0,42	0,42	0,42	E0

Glue Formulation		
GUF 2016	80	kg
GMF 330	20	kg
HU 50	19	kg
Tepung	20	kg
H 100	0,5	kg
H 103	4,2	kg

Approved by


Abdul Kadir

Acknowledge by


Asma' Hanifah, S.T

Temanggung, January 10 2026

Reported by



Styfan Intan Kartikasari



PT. GELORA CITRA KIMIA ABADI

Jl. Tembus Kranggan-Pringsurat Km. 2
Ds. Nguwet - Kec. Kranggan - Kab. Temanggung
Email : ptgcka.tmg@gmail.com

BONDING STRENGTH TEST REPORT
Serial No. 05 / QCLAB / I / 26

Supplier Sample : PT. Naga Indonesia
Thickness / Size : 3,0 x 400 x 400 mm (3 ply)
Types of Glue : T2 E0
Test Method : JAS for PLYWOOD, 2018
Production date : January 6, 2026
Date of Test : January 9, 2026
Sample Code : All Alba

Glue Formulation			Composition		Lup		Coefficient				
UF	80	kg			Face	0,70	3,0	1,3			
MF	20	kg			S / C	2,10					
HU 50	19	kg			Back	0,70					
Tp. Ayaka	20	kg									
H 100	0,5	kg									
H 103	4,2	kg									
			Keterangan								



PT. GELORA CITRA KIMIA ABADI, TEMANGGUNG

DELAMINATION TEST REPORT

Serial No. 05 / QCLAB / I / 26

Supplier Sample : PT. Naga Indonesia
Thickness / Size : 3,0 x 400 x 400 mm (3 ply)
Types of Glue : T2 E0
Test Method : JAS for PLYWOOD, 2018

Production Date : January 6, 2026
Test Date : January 9, 2026
Sample Code : All Alba

SPECIMENT	SIZE (mm)	THICKNESS (mm)	PIECES
	75 X 75	3,0	12

Sample Code	Pcs	Side	Length (mm)	Delamination (mm)												Judgement	Percentage of Passed		
				Glue Line															
				1	2														
DL	1	A	75	0	0											Passed	92%		
		B	75	0	0														
		C	75	0	0														
		D	75	0	0														
	2	A	75	0	0											Passed			
		B	75	0	0														
		C	75	0	0														
		D	75	0	0														
	3	A	75	0	0											Passed			
		B	75	0	0														
		C	75	0	0														
		D	75	0	0														
	4	A	75	0	0											Passed			
		B	75	0	0														
		C	75	0	0														
		D	75	0	0														
	5	A	75	0	0											Passed			
		B	75	0	0														
		C	75	0	0														
		D	75	0	0														
	6	A	75	0	0											Passed			
		B	75	0	0														
		C	75	0	0														
		D	75	0	0														
	7	A	75	0	0											Failed			
		B	75	0	40	Precure													
		C	75	0	40														
		D	75	0	0														
	8	A	75	0	0											Passed			
		B	75	0	0														
		C	75	0	0														
		D	75	0	0														
	9	A	75	0	0											Passed			
		B	75	0	0														
		C	75	0	0														
		D	75	0	0														
	10	A	75	0	0											Passed			
		B	75	0	0														
		C	75	0	0														
		D	75	0	0														
	11	A	75	0	0											Passed			
		B	75	0	0														
		C	75	0	0														
		D	75	0	0														
	12	A	75	0	0											Passed			
		B	75	0	0														
		C	75	0	0														
		D	75	0	0														
															PASSED	91,67%			

NOTE : The length of not delaminated part in the same adhered line shall be not less than 2/3 at the respective side

Approved by
Abdul Kadir

Acknowledge by
Asma' Hanifah, S.T

Reported by
Ali Ridho





PT. GELORA CITRA KIMIA ABADI

JL. Raya Kranggan Pringsurat Km. 2
Ds. Nguwet - Kranggan - Temanggung
Email : ptgcka.tmg@gmail.com

FORMALDEHYDE EMMISION REPORT

Serial No. 01 / QCLAB / I / 26

Supplier Sample : **PT. Naga Indonesia**
Thickness / Size : 5,0 x 400 x 400 mm (5 ply)
Types of Glue : T2 E0
Test Method : JAS for PLYWOOD, 2018
Production Date : December 19, 2025
Date of Test : January 07 – 08 2026
Code :

Sample	Wood Species			Absorbance		Concentration (mg/L)				Class
	F / B	S / C	L / C	Blanko	Sample	Concent	Max	Min	Average	
1	All Jabon			0,007	0,084	0,61	0,61	0,61	0,61	E1

Glue Formulation		
GUF 2016	80	kg
GMF 330	20	kg
HU 50	15	kg
Tepung	20	kg
H 100	0,5	kg
H 103	4,2	kg

Approved by

Abdul Kadir

Acknowledge by

Asma' Hanifah, S.T

Temanggung, January 08 2026

Reported by



Styfani Intan Kartikasari

PT. GELORA CITRA KIMIA ABADI

Jl. Raya Kranggan - Pringsurat Km. 2

Ds. Nguwet - Kranggan - Pringsurat

Temanggung - 56271

Email : ptgcka.tmg@gmail.com

MC / KADAR AIR

Serial No. 01 / QCLAB / I / 26

Thickness / Size : 5,0 x 400 x 400 mm (5 ply)
Types of Glue : T2 E0
Test Method : JAS for PLYWOOD, 2018
Supplier Sample : **PT. Naga Indonesia**
Production date : December 19, 2025
Date of Test : January 7, 2026
Sample Code : *All Jabon*

Code	W ₁	W ₂	Konstant	MC
1	24,1080	22,0900	0,0837	9,14%
2	24,8994	22,8603	0,0819	8,92%
Average				9,03%

Approved by

Abdul Kadir

Acknowledge by

Asma' Hanifah, S.T

Reported by

Ali Ridho





PT. GELORA CITRA KIMIA ABADI

Jl. Tembus Kranggan-Pringsurat Km. 2
Ds. Nguwet - Kec. Kranggan - Kab. Temanggung
Email : ptgcka.tmg@gmail.com

BONDING STRENGTH TEST REPORT

Serial No. 01 / QCLAB / I / 26

Supplier Sample : **PT. Naga Indonesia**
Thickness / Size : 5,0 x 400 x 400 mm (5 ply)
Types of Glue : T2 E0
Test Method : JAS for PLYWOOD, 2018

Production date : December 19, 2025
Date of Test : January 7, 2026
Sample Code : *All Jabon*

Glue Formulation			Composition		Lup			Coefficient			
UF	80	kg			Face	0,7	2,9	1,3			
MF	20	kg			S / C	2,0					
HU 50	15	kg			L / C	1,5					
Tepung	20	kg			S / C	2,0					
H 100	0,5	kg			Back	0,7					
H 103	4,2	kg									
			Keterangan								
L				M				R			
No	Kg	N/mm ²	%	No	Kg	N/mm ²	%	No	Kg	N/mm ²	%
1(OP)	72,40	1,48	100	1(OP)	86,60	1,77	100	1(OP)	71,30	1,45	100
2(OP)	75,40	1,54	100	2(OP)	90,50	1,84	100	2(OP)	73,90	1,51	100
3(OP)	64,80	1,32	100	3(OP)	60,60	1,24	100	3(OP)	55,10	1,12	100
4(OP)	69,20	1,41	100	4(OP)	77,80	1,59	100	4(OP)	65,80	1,34	100
5(CL)	59,90	1,22	100	5(CL)	51,30	1,05	100	5(CL)	62,60	1,28	100
6(CL)	72,80	1,48	100	6(CL)	58,10	1,18	100	6(CL)	56,60	1,15	100
7(CL)	47,40	0,97	100	7(CL)	50,10	1,02	100	7(CL)	65,30	1,33	100
8(CL)	53,20	1,08	100	8(CL)	79,00	1,61	100	8(CL)	69,40	1,41	100
Maks	1,54				1,84				1,51		
Min	0,97				1,02				1,12		
Ave	1,31				1,41				1,32		
Maks	1,84										
Min	0,97										
Ave	1,35										
%	100				100				100		
Judg(%)	100,0							PASSED			



PT. GELORA CITRA KIMIA ABADI, TEMANGGUNG

DELAMINATION TEST REPORT

Serial No. 01 / QCLAB / I / 26

Supplier Sample : PT. Naga Indonesia
Thickness / Size : 5,0 x 400 x 400 mm (5 ply)
Types of Glue : T2 E0
Test Method : JAS for PLYWOOD, 2018

Production Date : December 19, 2025
Test Date : January 7, 2026
Sample Code : All Jabon

SPECIMENT	SIZE (mm)	THICKNESS (mm)	PIECES
	75 X 75	5,0	12

Sample Code	Pcs	Side	Length (mm)	Delamination (mm)												Judgement	Percentage of Passed
				Glue Line													
				1	2	3	4										
DL	1	A	75	0	0	0	0									Passed	92%
		B	75	0	0	0	0										
		C	75	0	0	0	0										
		D	75	0	0	0	0										
	2	A	75	0	0	0	0									Passed	
		B	75	0	0	0	0										
		C	75	0	0	0	0										
		D	75	0	0	0	0										
	3	A	75	0	0	0	0									Passed	
		B	75	0	0	0	0										
		C	75	0	0	0	0										
		D	75	0	0	0	0										
	4	A	75	0	0	0	0									Passed	
		B	75	0	0	0	0										
		C	75	0	0	0	0										
		D	75	0	0	0	0										
	5	A	75	0	0	0	0									Passed	
		B	75	0	0	0	0										
		C	75	0	0	0	0										
		D	75	0	0	0	0										
	6	A	75	0	0	0	0									Passed	
		B	75	0	0	0	0										
		C	75	0	0	0	0										
		D	75	0	0	0	0										
	7	A	75	0	0	0	0									Passed	
		B	75	0	0	0	0										
		C	75	0	0	0	0										
		D	75	0	0	0	0										
	8	A	75	0	0	0	0									Passed	
		B	75	0	0	0	0										
		C	75	0	0	0	0										
		D	75	0	0	0	0										
	9	A	75	0	0	0	0									Passed	
		B	75	0	0	0	0										
		C	75	0	0	0	0										
		D	75	0	0	0	0										
	10	A	75	0	0	0	0									Passed	
		B	75	0	0	0	0										
		C	75	0	0	0	0										
		D	75	0	0	0	0										
	11	A	75	0	0	0	0									Failed	
		B	75	0	0	25	0	Gumetape									
		C	75	0	0	75	0										
		D	75	0	0	30	0										
	12	A	75	0	0	0	0									Passed	
		B	75	0	0	0	0										
		C	75	0	0	0	0										
		D	75	0	0	0	0										
PASSED																91.67%	

NOTE : The length of not delaminated part in the same adhered line shall be not less than 2/3 at the respective side

Approved by
Abdul Kadir

Acknowledge by
Asma' Hanifah, S.T

Reported by
Ali Ridho





PT. GELORA CITRA KIMIA ABADI

JL. Raya Kranggan Pringsurat Km. 2
Ds. Nguwet - Kranggan - Temanggung
Email : ptgcka.tmg@gmail.com

FORMALDEHYDE EMMISION REPORT

Serial No. 02 / QCLAB / I / 26

Supplier Sample : PT. Naga Indonesia
Thickness / Size : 5,0 x 400 x 400 mm (5 ply)
Types of Glue : T2 E0
Test Method : JAS for PLYWOOD, 2018
Production Date : December 19, 2025
Date of Test : January 07 – 08 2026
Code :

Sample	Wood Species			Absorbance		Concentration (mg/L)				Class
	F / B	S / C	L / C	Blanko	Sample	Concent	Max	Min	Average	
1	All Alba			0,007	0,081	0,59	0,59	0,59	0,59	E0

Glue Formulation		
GUF 2016	80	kg
GMF 330	20	kg
HU 50	15	kg
Tepung	20	kg
H 100	0,5	kg
H 103	4,2	kg

Approved by

Abdul Kadir

Acknowledge by

Asma' Hanifah, S.T

Temanggung, January 08 2026
Reported by

Styfani Intan Kartikasari



PT. GELORA CITRA KIMIA ABADI

Jl. Raya Kranggan - Pringsurat Km. 2

Ds. Nguwet - Kranggan - Pringsurat

Temanggung - 56271

Email : ptgcka.tmg@gmail.com

MC / KADAR AIR

Serial No. 02 / QCLAB / I / 26

Thickness / Size : 5,0 x 400 x 400 mm (5 ply)
Types of Glue : T2 E0
Test Method : JAS for PLYWOOD, 2018
Supplier Sample : PT. Naga Indonesia
Production date : December 19, 2025
Date of Test : January 7, 2026
Sample Code : All Alba

Code	W ₁	W ₂	Konstant	MC
1	43,7702	40,2685	0,0800	8,70%
2	43,6922	40,381	0,0758	8,20%
Average				8,45%

Approved by



Abdul Kadir

Acknowledge by



Asma' Hanifah, S.T

Reported by



Al Ridho

PT. GELORA CITRA KIMIA ABADI

Jl. Tembus Kranggan-Pringsurat Km. 2
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Email : ptgcka.tmg@gmail.com

BONDING STRENGTH TEST REPORT

Serial No. 02 / QCLAB / I / 26

Supplier Sample	:	PT. Naga Indonesia	Production date	:	December 19, 2025
Thickness / Size	:	5,0 x 400 x 400 mm (5 ply)	Date of Test	:	January 7, 2026
Types of Glue	:	T2 E0	Sample Code	:	<i>All Alba</i>
Test Method	:	JAS for PLYWOOD, 2018			

Glue Formulation			Composition		Lup		Coefficient				
UF	80	kg			Face	0,7	2,9	1,3			
MF	20	kg			S / C	2,0					
HU 50	15	kg			L / C	1,5					
Tepung	20	kg			S / C	2,0					
H 100	0,5	kg			Back	0,7					
H 103	4,2	kg									
			Keterangan								
L				M				R			
No	Kg	N/mm ²	%	No	Kg	N/mm ²	%	No	Kg	N/mm ²	%
1(OP)	68,20	1,39	30	1(OP)	75,40	1,54	100	1(OP)	59,60	1,21	100
2(OP)	81,30	1,66	100	2(OP)	63,40	1,29	100	2(OP)	76,60	1,56	100
3(OP)	84,90	1,73	100	3(OP)	59,80	1,22	100	3(OP)	57,20	1,17	100
4(OP)	74,80	1,52	100	4(OP)	55,00	1,12	100	4(OP)	56,30	1,15	100
5(CL)	83,20	1,70	30	5(CL)	50,20	1,02	100	5(CL)	55,10	1,12	20
6(CL)	62,70	1,28	100	6(CL)	84,70	1,73	100	6(CL)	86,80	1,77	10
7(CL)	63,30	1,29	20	7(CL)	42,00	0,86	100	7(CL)	88,10	1,80	100
8(CL)	57,00	1,16	10	8(CL)	78,00	1,59	100	8(CL)	41,80	0,85	100
Maks	1,73			1,73				1,80			
Min	1,16			0,86				0,85			
Ave	1,47			1,30				1,33			
Maks	1,80										
Min	0,85										
Ave	1,36										
%	100			100			100			100	
Judge(%)	100,0										
											PASSED

Approved by

Abdul Kadir

Acknowledge by

Asma' Hanifah, S.T

Reported by

Ali Ridho





PT. GELORA CITRA KIMIA ABADI, TEMANGGUNG

DELAMINATION TEST REPORT

Serial No. 02 / QCLAB / 1 / 26

Supplier Sample : PT. Naga Indonesia
Thickness / Size : 5,0 x 400 x 400 mm (5 ply)
Types of Glue : T2 E0
Test Method : JAS for PLYWOOD, 2018

Production Date : December 19, 2025
Test Date : January 7, 2026
Sample Code : All Alba

SPECIMENT	SIZE (mm)	THICKNESS (mm)	PIECES
	75 X 75	5,0	12

Sample Code	Pcs	Side	Length (mm)	Delamination (mm)												Judgement	Percentage of Passed
				Glue Line													
				1	2	3	4										
DL	1	A	75	0	0	0	0									Passed	100%
		B	75	0	0	0	0										
		C	75	0	0	0	0										
		D	75	0	0	0	0										
	2	A	75	0	0	0	0									Passed	
		B	75	0	0	0	0										
		C	75	0	0	0	0										
		D	75	0	0	0	0										
	3	A	75	0	0	0	0									Passed	
		B	75	0	0	0	0										
		C	75	0	0	0	0										
		D	75	0	0	0	0										
	4	A	75	0	0	0	0									Passed	
		B	75	0	0	0	0										
		C	75	0	0	0	0										
		D	75	0	0	0	0										
	5	A	75	0	0	0	0									Passed	
		B	75	0	0	0	0										
		C	75	0	0	0	0										
		D	75	0	0	0	0										
	6	A	75	0	0	0	0									Passed	
		B	75	0	0	0	0										
		C	75	0	0	0	0										
		D	75	0	0	0	0										
	7	A	75	0	0	0	0									Passed	
		B	75	0	0	0	0										
		C	75	0	0	0	0										
		D	75	0	0	0	0										
	8	A	75	0	0	0	0									Passed	
		B	75	0	0	0	0										
		C	75	0	0	0	0										
		D	75	0	0	0	0										
	9	A	75	0	0	0	0									Passed	
		B	75	0	0	0	0										
		C	75	0	0	0	0										
		D	75	0	0	0	0										
	10	A	75	0	0	0	0									Passed	
		B	75	0	0	0	0										
		C	75	0	0	0	0										
		D	75	0	0	0	0										
	11	A	75	0	0	0	0									Passed	
		B	75	0	0	0	0										
		C	75	0	0	0	0										
		D	75	0	0	0	0										
	12	A	75	0	0	0	0									Passed	
		B	75	0	0	0	0										
		C	75	0	0	0	0										
		D	75	0	0	0	0										
PASSED																100,00%	

NOTE : The length of not delaminated part in the same adhered line shall be not less than 2/3 at the respective side

Approved by
Abdul Kadir

Acknowledge by
Asma' Hanifah, S.T

Reported by
Ali Ridho



PT. GELORA CITRA KIMIA ABADI

JL. Raya Kranggan Pringsurat Km. 2
Ds. Nguwet - Kranggan - Temanggung
Email : ptgcka.tmg@gmail.com

FORMALDEHYDE EMMISION REPORT

Serial No. 03 / QCLAB / I / 26

Supplier Sample : **PT. Naga Indonesia**
Thickness / Size : 3,0 x 400 x 400 mm (3 ply)
Types of Glue : T2 E0
Test Method : JAS for PLYWOOD, 2018
Production Date : December 19, 2025
Date of Test : January 07 – 08 2026
Code :

Sample	Wood Species			Absorbance		Concentration (mg/L)				Class
	F / B	S / C	-	Blanko	Sample	Concent	Max	Min	Average	
1	All Alba			0,007	0,093	0,68	0,68	0,68	0,68	E1

Glue Formulation		
GUF 2016	80	kg
GMF 330	20	kg
HU 50	15	kg
Tepung	20	kg
H 100	0,5	kg
H 103	4,2	kg

Approved by


Abdul Kadir

Acknowledge by


Asma' Hanifah, S.T

Temanggung, January 08 2026

Reported by



Styfani Intan Kartikasari

PT. GELORA CITRA KIMIA ABADI

Jl. Raya Kranggan - Pringsurat Km. 2

Ds. Nguwet - Kranggan - Pringsurat

Temanggung - 56271

Email : ptgcka.tmg@gmail.com

MC / KADAR AIR
Serial No. 03 / QCLAB / I / 26

Thickness / Size : 3,0 x 400 x 400 mm (3 ply)
Types of Glue : T2 E0
Test Method : JAS for PLYWOOD, 2018
Supplier Sample : PT. Naga Indonesia
Production date : December 19, 2025
Date of Test : January 7, 2026
Sample Code : All Alba

Code	W ₁	W ₂	Konstant	MC
1	26,3813	24,4679	0,0725	7,82%
2	26,3606	24,4533	0,0724	7,80%
Average				7,81%

Approved by


Abdul Kadir

Acknowledge by


Asma' Hanifah, S.T

Reported by



Ali Ridho



PT. GELORA CITRA KIMIA ABADI

Jl. Tembus Kranggan-Pringsurat Km. 2
Ds. Nguwet - Kec. Kranggan - Kab. Temanggung
Email : ptgcka.tmg@gmail.com

BONDING STRENGTH TEST REPORT
Serial No. 03 / QCLAB / I / 26

Supplier Sample : PT. Naga Indonesia
Thickness / Size : 3,0 x 400 x 400 mm (3 ply)
Types of Glue : T2 E0
Test Method : JAS for PLYWOOD, 2018
Production date : December 19, 2025
Date of Test : January 7, 2026
Sample Code : All Alba

Glue Formulation			Composition		Lup		Coefficient				
UF	80	kg			Face	0.70	2,9	1,3			
MF	20	kg			S / C	2.00					
HU 50	15	kg			Back	0.70					
Tepung	20	kg									
H 100	0.5	kg									
H 103	4.2	kg									
			Keterangan								
			Dempul								
L				M				R			
No	Kg	N/mm ²	%	No	Kg	N/mm ²	%	No	Kg	N/mm ²	%
1(OP)	60.30	1.23	10	1(OP)	62.70	1.28	100	1(OP)	74.80	1.52	100
2(OP)	50.50	1.03	50	2(OP)	74.90	1.53	100	2(OP)	55.10	1.12	50
3(CL)	58.20	1.19	10	3(CL)	65.90	1.34	100	3(CL)	53.60	1.09	10
4(CL)	52.80	1.08	100	4(CL)	70.00	1.43	100	4(CL)	24.60	0.50	10
Maks		1.23				1.53				1.52	
Min		1.03				1.28				0.50	
Ave		1.13				1.39				1.06	
Maks						1.53					
Min						0.50					
Ave						1.19					
%		100				100				75	
Judg(%)				92						PASSED	

Approved by


Abdul Kadir

Acknowledge by


Asma' Hanifah, S.T

Reported by




Ali Ridho



PT. GELORA CITRA KIMIA ABADI, TEMANGGUNG

DELAMINATION TEST REPORT

Serial No. 03 / QCLAB / I / 26

Supplier Sample : PT. Naga Indonesia
Thickness / Size : 3,0 x 400 x 400 mm (3 ply)
Types of Glue : T2 E0
Test Method : JAS for PLYWOOD, 2018

Production Date : December 19, 2025
Test Date : January 7, 2026
Sample Code : All Alba

SPECIMENT	SIZE (mm)	THICKNESS (mm)	PIECES
	75 X 75	3,0	12

Sample Code	Pcs	Side	Length (mm)	Delamination (mm)												Judgement	Percentage of Passed
				Glue Line													
				1	2												
DL	1	A	75	0	0										Passed	100%	
		B	75	0	0												
		C	75	0	0												
		D	75	0	0												
	2	A	75	0	0										Passed		
		B	75	0	0												
		C	75	0	0												
		D	75	0	0												
	3	A	75	0	0										Passed		
		B	75	0	0												
		C	75	0	0												
		D	75	0	0												
	4	A	75	0	0										Passed		
		B	75	0	0												
		C	75	0	0												
		D	75	0	0												
	5	A	75	0	0										Passed		
		B	75	0	0												
		C	75	0	0												
		D	75	0	0												
	6	A	75	0	0										Passed		
		B	75	0	0												
		C	75	0	0												
		D	75	0	0												
	7	A	75	0	0										Passed		
		B	75	0	0												
		C	75	0	0												
		D	75	0	0												
	8	A	75	0	0										Passed		
		B	75	0	0												
		C	75	0	0												
		D	75	0	0												
	9	A	75	0	0										Passed		
		B	75	0	0												
		C	75	0	0												
		D	75	0	0												
	10	A	75	0	0										Passed		
		B	75	0	0												
		C	75	0	0												
		D	75	0	0												
	11	A	75	0	0										Passed		
		B	75	0	0												
		C	75	0	0												
		D	75	0	0												
	12	A	75	0	0										Passed		
		B	75	0	0												
		C	75	0	0												
		D	75	0	0												
PASSED															100,00%		

NOTE : The length of not delaminated part in the same adhered line shall be not less than 2/3 at the respective side

Approved by

Abdul Kadir

Acknowledge by

Asma' Hanifah, S.T

Reported by

Ali Ridho





PT. GELORA CITRA KIMIA ABADI

JL. Raya Kranggan Pringsurat Km. 2
Ds. Nguwet - Kranggan - Temanggung
Email : ptgcka.tmg@gmail.com

FORMALDEHYDE EMMISION REPORT
Serial No. 04 / QCLAB / I / 26

Supplier Sample : PT. Naga Indonesia
Thickness / Size : 8,0 x 400 x 400 mm (7 ply)
Types of Glue : T2 E0
Test Method : JAS for PLYWOOD, 2018
Production Date : December 14, 2025
Date of Test : January 07 – 08 2026
Code :

Sample	Wood Species			Absorbance		Concentration (mg/L)				Class
	F / B	S / C	L / C	Blanko	Sample	Concent	Max	Min	Average	
1	All Alba			0,007	0,080	0,58	0,58	0,58	0,58	E1

Glue Formulation		
GUF 2016	80	kg
GMF 330	20	kg
HU 50	15	kg
Tepung	20	kg
H 100	0,5	kg
H 103	4,2	kg

Approved by

Abdul Kadir

Acknowledge by

Asma' Hanifah, S.T

Temanggung, January 08 2026
Reported by

Styfani Intan Kartikasari



PT. GELORA CITRA KIMIA ABADI

Jl. Raya Kranggan - Pringsurat Km. 2

Ds. Nguwet - Kranggan - Pringsurat

Temanggung - 56271

Email : ptgcka.tmg@gmail.com

MC / KADAR AIR

Serial No. 04 / QCLAB / I / 26

Thickness / Size : 8,0 x 400 x 400 mm (7 ply)
Types of Glue : T2 E0
Test Method : JAS for PLYWOOD, 2018
Supplier Sample : PT. Naga Indonesia
Production date : December 14, 2025
Date of Test : January 7, 2026
Sample Code : All Alba

Code	W ₁	W ₂	Konstant	MC
1	37,2387	34,7880	0,0658	7,04%
2	35,6136	33,2318	0,0669	7,17%
Average				7,11%

Approved by


Abdul Kadir

Acknowledge by


Asma' Hanifah, S.T

Reported by


Ali Ridho



PT. GELORA CITRA KIMIA ABADI

Jl. Tembus Kranggan-Pringsurat Km. 2
Ds. Nguwet - Kec. Kranggan - Kab. Temanggung
Email : ptgcka.tmg@gmail.com

BONDING STRENGTH TEST REPORT

Serial No. 04 / QCLAB / I / 26

Supplier Sample	:	PT. Naga Indonesia	Production date	:	December 14, 2025
Thickness / Size	:	8,0 x 400 x 400 mm (7 ply)	Date of Test	:	January 7, 2026
Types of Glue	:	T2 E0	Sample Code	:	<i>All Alba</i>
Test Method	:	JAS for PLYWOOD, 2018			

Glue Formulation			Composition		Lup			Coefficient
UF	80	kg			Face	0,7	2,9	1,3
MF	20	kg			S / C	2,0		
HU 50	15	kg			L / C	1,5	1,3	1,0
Tepung	20	kg			S / C	2,0		
H 100	0,5	kg			L / C	1,5		
H 103	4,2	kg			S / C	2,0		
					Back	0,7	2,9	1,3
						</		

Approved by


Abdul Kadir

Acknowledge by

Asma' Hanifah, S.T

Reported by

Ali Ridho





PT. GELORA CITRA KIMIA ABADI, TEMANGGUNG

DELAMINATION TEST REPORT

Serial No. 04 / QCLAB / I / 26

Supplier Sample : PT. Naga Indonesia
Thickness / Size : 8,0 x 400 x 400 mm (7 ply)
Types of Glue : T2 E0
Test Method : JAS for PLYWOOD, 2018

Production Date : December 14, 2025
Test Date : January 7, 2026
Sample Code : All Alba

SPECIMENT	SIZE (mm)	THICKNESS (mm)	PIECES
	75 X 75	8,0	12

Sample Code	Pcs	Side	Length (mm)	Delamination (mm)												Judgement	Percentage of Passed
				Glue Line													
				1	2	3	4	5	6								
DL	1	A	75	0	0	0	0	0	0							Passed	100%
		B	75	0	0	0	0	0	0								
		C	75	0	0	0	0	0	0								
		D	75	0	0	0	0	0	0								
	2	A	75	0	0	0	0	0	0							Passed	
		B	75	0	0	0	0	0	0								
		C	75	0	0	0	0	0	0								
		D	75	0	0	0	0	0	0								
	3	A	75	0	0	0	0	0	0							Passed	
		B	75	0	0	0	0	0	0								
		C	75	0	0	0	0	0	0								
		D	75	0	0	0	0	0	0								
	4	A	75	0	0	0	0	0	0							Passed	
		B	75	0	0	0	0	0	0								
		C	75	0	0	0	0	0	0								
		D	75	0	0	0	0	0	0								
	5	A	75	0	0	0	0	0	0							Passed	
		B	75	0	0	0	0	0	0								
		C	75	0	0	0	0	0	0								
		D	75	0	0	0	0	0	0								
	6	A	75	0	0	0	0	0	0							Passed	
		B	75	0	0	0	0	0	0								
		C	75	0	0	0	0	0	0								
		D	75	0	0	0	0	0	0								
	7	A	75	0	0	0	0	0	0							Passed	
		B	75	0	0	0	0	0	0								
		C	75	0	0	0	0	0	0								
		D	75	0	0	0	0	0	0								
	8	A	75	0	0	0	0	0	0							Passed	
		B	75	0	0	0	0	0	0								
		C	75	0	0	0	0	0	0								
		D	75	0	0	0	0	0	0								
	9	A	75	0	0	0	0	0	0							Passed	
		B	75	0	0	0	0	0	0								
		C	75	0	0	0	0	0	0								
		D	75	0	0	0	0	0	0								
	10	A	75	0	0	0	0	0	0							Passed	
		B	75	0	0	0	0	0	0								
		C	75	0	0	0	0	0	0								
		D	75	0	0	0	0	0	0								
	11	A	75	0	0	0	0	0	0							Passed	
		B	75	0	0	0	0	0	0								
		C	75	0	0	0	0	0	0								
		D	75	0	0	0	0	0	0								
	12	A	75	0	0	0	0	0	0							Passed	
		B	75	0	0	0	0	0	0								
		C	75	0	0	0	0	0	0								
		D	75	0	0	0	0	0	0								
PASSED														100.00%			

NOTE : The length of not delaminated part in the same adhered line shall be not less than 2/3 at the respective side

Approved by
Abdul Kadir

Acknowledge by
Asma' Hanifah, S.T

Reported by
Ali Ridho

