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LAMPIRAN

Lampiran 1. Data hasil pengujian droptest pada sudut kemiringan linggi haluan 52 derajat

• Pembacaan Sensor pada sudut jatuh 5 derajat

16:38:43.514 -> Weight: 0.00 kg	Weight: 0.00 kg	Weight: 0.00 kg
16:38:43.623 -> Weight: 0.00 kg	Weight: 0.00 kg	Weight: 0.00 kg
16:38:43.698 -> Weight: 7.27 kg	Weight: 2.97 kg	Weight: 1.81 kg
16:38:43.809 -> Weight: 2.17 kg	Weight: 1.12 kg	Weight: 0.04 kg
16:38:43.887 -> Weight: 1.98 kg	Weight: 1.01 kg	Weight: 0.03 kg
16:38:44.007 -> Weight: 1.74 kg	Weight: 0.98 kg	Weight: 0.06 kg
16:38:44.093 -> Weight: 1.83 kg	Weight: 0.98 kg	Weight: 0.02 kg
16:38:44.202 -> Weight: 1.67 kg	Weight: 0.93 kg	Weight: 0.05 kg
16:38:44.289 -> Weight: 1.78 kg	Weight: 0.95 kg	Weight: 0.04 kg
16:38:44.357 -> Weight: 1.77 kg	Weight: 1.04 kg	Weight: 0.06 kg

- Hasil perhitungan tekanan pada sudut jatuh 5 derajat

t (s)	S1 W(kg)	S2 W(kg)	S3 W(kg)	S1 F (N)	S2 F (N)	S3 F (N)	S1 P (N/m ²)	S2 P (N/m ²)	S3 P (N/m ²)
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.044	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.109	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.184	7.27	2.97	1.81	71.25	29.11	17.74	79162.22	32340.00	19708.89
0.295	2.17	1.12	0.04	21.27	10.98	0.39	23628.89	12195.56	435.56
0.373	1.98	1.01	0.03	19.40	9.90	0.29	21560.00	10997.78	326.67
0.493	1.74	0.98	0.06	17.05	9.60	0.59	18946.67	10671.11	653.33
0.576	1.83	0.98	0.02	17.93	9.60	0.20	19926.67	10671.11	217.78
0.688	1.67	0.93	0.05	16.37	9.11	0.49	18184.44	10126.67	544.44
0.775	1.78	0.95	0.04	17.44	9.31	0.39	19382.22	10344.44	435.56
0.843	1.77	1.04	0.06	17.35	10.19	0.59	19273.33	11324.44	653.33

• Pembacaan Sensor pada sudut jatuh 15 derajat

17:40:45.794 -> Weight: 0.00 kg	Weight: 0.00 kg	Weight: 0.00 kg
17:40:45.876 -> Weight: 0.00 kg	Weight: 0.00 kg	Weight: 0.00 kg
17:40:45.978 -> Weight: 4.33 kg	Weight: 2.70 kg	Weight: 1.22 kg
17:40:46.058 -> Weight: 1.13 kg	Weight: 1.03 kg	Weight: 0.05 kg
17:40:46.132 -> Weight: 1.01 kg	Weight: 1.03 kg	Weight: 0.04 kg
17:40:46.169 -> Weight: 1.01 kg	Weight: 0.97 kg	Weight: 0.06 kg
17:40:46.242 -> Weight: 0.98 kg	Weight: 0.94 kg	Weight: 0.07 kg
17:40:46.364 -> Weight: 1.01 kg	Weight: 0.96 kg	Weight: 0.09 kg
17:40:46.427 -> Weight: 0.92 kg	Weight: 0.82 kg	Weight: 0.09 kg
17:40:46.541 -> Weight: 1.05 kg	Weight: 0.82 kg	Weight: 0.04 kg

- Hasil perhitungan tekanan pada sudut jatuh 15 derajat

t (s)	S1 W(kg)	S2 W(kg)	S3 W(kg)	S1 F (N)	S2 F (N)	S3 F (N)	S1 P (N/m ²)	S2 P (N/m ²)	S3 P (N/m ²)
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.082	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.184	4.33	2.70	1.22	42.41	26.43	11.91	47127.11	29367.33	13230.00
0.264	1.13	1.03	0.05	11.07	10.09	0.49	11074.00	10094.00	490.00
0.338	1.04	1.02	0.04	10.19	10.00	0.39	10192.00	9996.00	392.00
0.375	1.01	0.97	0.06	9.90	9.51	0.59	9898.00	9506.00	588.00
0.448	0.98	0.94	0.07	9.60	9.21	0.69	9604.00	9212.00	686.00
0.57	1.01	0.96	0.06	9.90	9.41	0.59	9898.00	9408.00	588.00
0.633	0.92	0.84	0.09	9.02	8.23	0.88	9016.00	8232.00	882.00
0.747	1.05	0.82	0.04	10.29	8.04	0.39	10290.00	8036.00	392.00

Lampiran 2. Data hasil pengujian droptest pada sudut kemiringan linggi haluan 57 derajat

• Pembacaan Sensor pada sudut jatuh 5 derajat

16:55:11.324 -> Weight: 0.00 kg	Weight: 0.00 kg	Weight: 0.00 kg
16:55:11.441 -> Weight: 0.00 kg	Weight: 0.00 kg	Weight: 0.00 kg
16:55:11.509 -> Weight: 4.27 kg	Weight: 2.22 kg	Weight: 1.20 kg
16:55:11.623 -> Weight: 1.43 kg	Weight: 0.96 kg	Weight: 0.13 kg
16:55:11.723 -> Weight: 1.02 kg	Weight: 0.73 kg	Weight: 0.04 kg
16:55:11.791 -> Weight: 1.04 kg	Weight: 0.64 kg	Weight: 0.05 kg
16:55:11.893 -> Weight: 0.95 kg	Weight: 0.56 kg	Weight: 0.06 kg
16:55:11.997 -> Weight: 0.91 kg	Weight: 0.52 kg	Weight: 0.07 kg
16:55:12.193 -> Weight: 0.98 kg	Weight: 0.59 kg	Weight: 0.04 kg
16:55:12.272 -> Weight: 0.93 kg	Weight: 0.61 kg	Weight: 0.05 kg

- Hasil perhitungan tekanan pada sudut jatuh 5 derajat

t (s)	S1 W(kg)	S2 W(kg)	S3 W(kg)	S1 F (N)	S2 F (N)	S3 F (N)	S1 P (N/m ²)	S2 P (N/m ²)	S3 P (N/m ²)
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.044	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.117	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.185	4.27	2.22	1.20	41.82	21.77	11.76	46462.89	24184.22	13066.67
0.299	1.43	0.96	0.13	14.01	9.41	1.27	14014.00	9408.00	1274.00
0.399	1.02	0.73	0.04	10.00	7.15	0.39	9996.00	7154.00	392.00
0.467	1.04	0.64	0.05	10.19	6.27	0.49	10192.00	6272.00	490.00
0.569	0.95	0.56	0.06	9.31	5.49	0.59	9310.00	5488.00	588.00
0.673	0.91	0.52	0.07	8.92	5.10	0.69	8918.00	5096.00	686.00
0.869	0.98	0.59	0.04	9.60	5.78	0.39	9604.00	5782.00	392.00
1.948	0.93	0.61	0.05	9.11	5.98	0.49	9114.00	5978.00	490.00

• Pembacaan Sensor pada sudut jatuh 15 derajat

18:45:50.794 -> Weight: 0.00 kg	Weight: 0.00 kg	Weight: 0.00 kg
18:45:50.876 -> Weight: 0.00 kg	Weight: 0.00 kg	Weight: 0.00 kg
18:45:50.978 -> Weight: 3.96 kg	Weight: 1.71 kg	Weight: 0.63 kg
18:45:51.058 -> Weight: 1.32 kg	Weight: 0.93 kg	Weight: 0.28 kg
18:45:51.132 -> Weight: 0.73 kg	Weight: 0.65 kg	Weight: 0.02 kg
18:45:51.168 -> Weight: 0.63 kg	Weight: 0.56 kg	Weight: 0.02 kg
18:45:51.242 -> Weight: 0.53 kg	Weight: 0.45 kg	Weight: 0.05 kg
18:45:51.363 -> Weight: 0.57 kg	Weight: 0.41 kg	Weight: 0.04 kg
18:45:51.427 -> Weight: 0.43 kg	Weight: 0.36 kg	Weight: 0.07 kg
18:45:51.747 -> Weight: 0.32 kg	Weight: 0.23 kg	Weight: 0.03 kg

• Hasil perhitungan tekanan pada sudut jatuh 15 derajat

t (s)	S1 W(kg)	S2 W(kg)	S3 W(kg)	S1 F (N)	S2 F (N)	S3 F (N)	S1 P (N/m ²)	S2 P (N/m ²)	S3 P (N/m ²)
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.057	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.082	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.184	3.96	1.71	0.63	38.80	16.75	6.18	43109.11	18609.11	6870.89
0.264	1.32	0.93	0.28	12.94	9.11	2.74	14373.33	10126.67	3048.89
0.338	0.73	0.65	0.02	7.15	6.37	0.20	7948.89	7077.78	217.78
0.375	0.63	0.56	0.02	6.17	5.49	0.20	6860.00	6097.78	217.78
0.448	0.53	0.45	0.05	5.19	4.41	0.49	5771.11	4900.00	544.44
0.569	0.57	0.41	0.04	5.59	4.02	0.39	6206.67	4464.44	435.56
0.633	0.43	0.36	0.07	4.21	3.53	0.69	4682.22	3920.00	762.22
0.747	0.32	0.23	0.03	3.14	2.25	0.29	3484.44	2504.44	326.67

Lampiran 3 Data hasil pengujian droptest pada sudut kemiringan linggi haluan 62 derajat

• Pembacaan Sensor pada sudut jatuh 5 derajat

18:55:25.172 -> Weight: 0.00 kg	Weight: 0.00 kg	Weight: 0.00 kg
18:55:25.242 -> Weight: 0.00 kg	Weight: 0.00 kg	Weight: 0.00 kg
18:55:25.354 -> Weight: 3.83 kg	Weight: 1.31 kg	Weight: 0.33 kg
18:55:25.458 -> Weight: 0.56 kg	Weight: 0.34 kg	Weight: 0.09 kg
18:55:25.577 -> Weight: 0.32 kg	Weight: 0.28 kg	Weight: 0.08 kg
18:55:25.660 -> Weight: 0.12 kg	Weight: 0.14 kg	Weight: 0.07 kg
18:55:25.757 -> Weight: 0.10 kg	Weight: 0.12 kg	Weight: 0.02 kg
18:55:25.825 -> Weight: 0.11 kg	Weight: 0.13 kg	Weight: 0.05 kg
18:55:25.923 -> Weight: 0.08 kg	Weight: 0.12 kg	Weight: 0.07 kg
18:55:26.025 -> Weight: 0.13 kg	Weight: 0.11 kg	Weight: 0.08 kg

• Hasil perhitungan tekanan pada sudut jatuh 5 derajat

t (s)	S1 W(kg)	S2 W(kg)	S3 W(kg)	S1 F (N)	S2 F (N)	S3 F (N)	S1 P (N/m ²)	S2 P (N/m ²)	S3 P (N/m ²)
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.049	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.070	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.182	3.83	1.31	0.33	37.53	12.84	3.23	41704.44	14264.44	3593.33
0.286	0.56	0.34	0.09	5.49	3.33	0.88	6097.78	3702.22	980.00
0.405	0.32	0.28	0.08	3.14	2.74	0.78	3484.44	3048.89	871.11
0.488	0.12	0.14	0.07	1.18	1.37	0.69	1306.67	1524.44	762.22
0.585	0.10	0.12	0.02	0.96	1.18	0.20	1067.11	1306.67	217.78
0.653	0.11	0.13	0.05	1.08	1.27	0.49	1197.78	1415.56	544.44
0.751	0.08	0.12	0.07	0.78	1.18	0.69	871.11	1306.67	762.22
0.853	0.13	0.11	0.08	1.27	1.08	0.78	1415.56	1197.78	871.11

• Pembacaan Sensor pada sudut jatuh 15°

17:29:59.839 -> Weight: 0.00 kg	Weight: 0.00 kg	Weight: 0.00 kg
17:29:59.952 -> Weight: 0.00 kg	Weight: 0.00 kg	Weight: 0.00 kg
17:29:60.024 -> Weight: 2.41 kg	Weight: 1.26 kg	Weight: 0.31 kg
17:29:60.060 -> Weight: 0.83 kg	Weight: 0.53 kg	Weight: 0.09 kg
17:29:60.132 -> Weight: 0.65 kg	Weight: 0.32 kg	Weight: 0.07 kg
17:29:60.243 -> Weight: 0.56 kg	Weight: 0.35 kg	Weight: 0.02 kg
17:29:60.307 -> Weight: 0.43 kg	Weight: 0.32 kg	Weight: 0.03 kg
17:30:60.420 -> Weight: 0.36 kg	Weight: 0.28 kg	Weight: 0.04 kg
17:30:60.491 -> Weight: 0.41 kg	Weight: 0.31 kg	Weight: 0.02 kg
17:30:60.525 -> Weight: 0.43 kg	Weight: 0.32 kg	Weight: 0.03 kg

• Hasil perhitungan tekanan pada sudut jatuh 15 derajat

t (s)	S1 W(kg)	S2 W(kg)	S3 W(kg)	S1 F (N)	S2 F (N)	S3 F (N)	S1 P (N/m ²)	S2 P (N/m ²)	S3 P (N/m ²)
0	0.00	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00
0.057	0.00	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00
0.113	0.00	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00
0.185	2.41	1.26	0.31	23.64	12.31	3.04	26264.00	13676.44	3375.56
0.221	0.83	0.53	0.09	8.13	5.21	0.88	9037.78	5792.89	980.00
0.293	0.65	0.32	0.07	6.37	3.14	0.69	7077.78	3484.44	762.22
0.404	0.56	0.35	0.02	5.49	3.43	0.20	6097.78	3811.11	217.78
0.468	0.43	0.32	0.03	4.21	3.14	0.29	4682.22	3484.44	326.67
0.581	0.36	0.28	0.04	3.53	2.74	0.39	3920.00	3048.89	435.56
0.652	0.41	0.31	0.02	4.02	3.04	0.20	4464.44	3375.56	217.78
0.686	0.43	0.32	0.03	4.21	3.14	0.29	4682.22	3484.44	326.67

Lampiran 4. Data Hasil Pengujian ketika air dalam Kondisi tenang

• Pembacaan Sensor Pada saat Kondisi Air Tenang

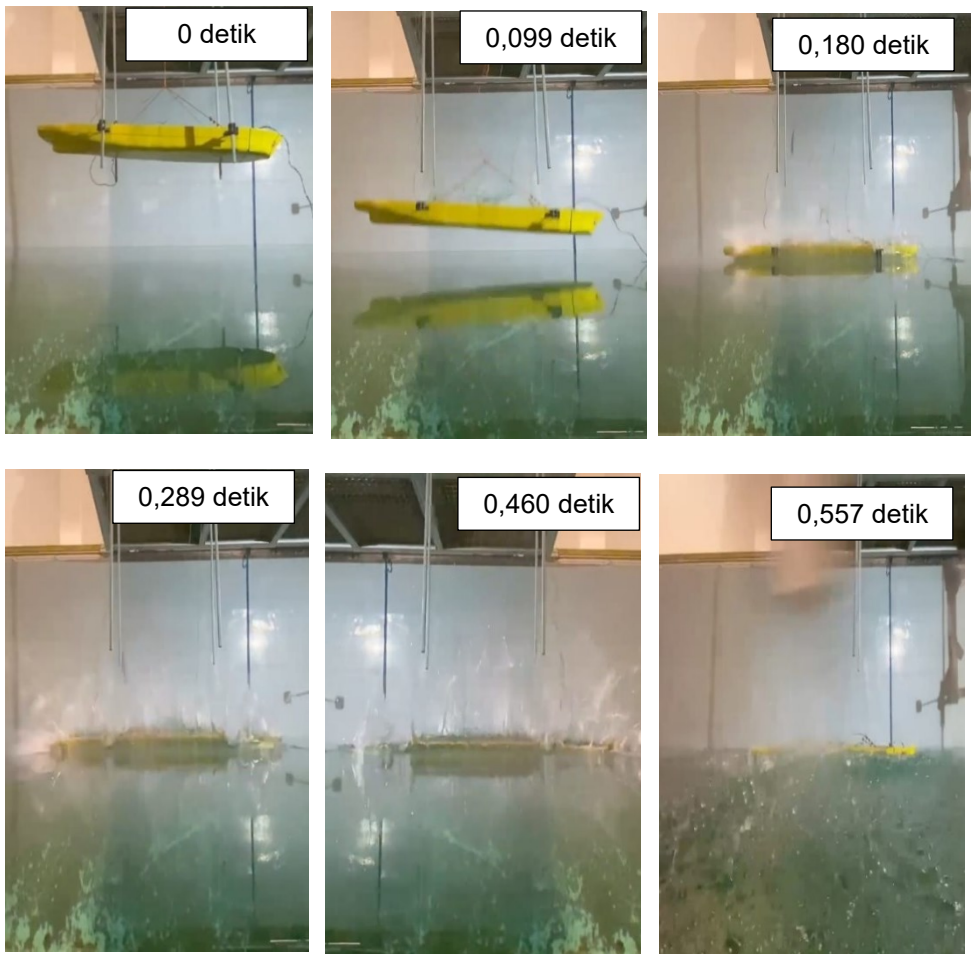
15:44:36.424 -> Weight: 0.00 kg	Weight: 0.00 kg	Weight: 0.00 kg
15:44:36.523 -> Weight: 0.00 kg	Weight: 0.00 kg	Weight: 0.00 kg
15:44:36.604 -> Weight: 4.64 kg	Weight: 3.86 kg	Weight: 1.39 kg
15:44:36.713 -> Weight: 2.43 kg	Weight: 1.43 kg	Weight: 0.21 kg
15:44:36.779 -> Weight: 2.18 kg	Weight: 1.32 kg	Weight: 0.19 kg
15:44:36.884 -> Weight: 1.92 kg	Weight: 1.14 kg	Weight: 0.18 kg
15:44:36.981 -> Weight: 1.87 kg	Weight: 1.03 kg	Weight: 0.15 kg
15:44:37.086 -> Weight: 1.73 kg	Weight: 0.96 kg	Weight: 0.14 kg
15:44:37.162 -> Weight: 1.68 kg	Weight: 0.94 kg	Weight: 0.12 kg
15:44:37.263 -> Weight: 1.53 kg	Weight: 0.91 kg	Weight: 0.11 kg
15:44:37.363 -> Weight: 1.47 kg	Weight: 0.81 kg	Weight: 0.10 kg
15:44:37.462 -> Weight: 1.38 kg	Weight: 0.75 kg	Weight: 0.09 kg
15:44:37.537 -> Weight: 1.27 kg	Weight: 0.71 kg	Weight: 0.09 kg
15:44:37.619 -> Weight: 1.14 kg	Weight: 0.64 kg	Weight: 0.08 kg
15:44:37.720 -> Weight: 1.06 kg	Weight: 0.61 kg	Weight: 0.07 kg
15:44:37.829 -> Weight: 0.93 kg	Weight: 0.59 kg	Weight: 0.07 kg
15:44:37.930 -> Weight: 0.87 kg	Weight: 0.57 kg	Weight: 0.06 kg
15:44:38.056 -> Weight: 0.81 kg	Weight: 0.54 kg	Weight: 0.06 kg
15:44:38.143 -> Weight: 0.76 kg	Weight: 0.47 kg	Weight: 0.06 kg
15:44:38.275 -> Weight: 0.67 kg	Weight: 0.45 kg	Weight: 0.05 kg
15:44:38.364 -> Weight: 0.54 kg	Weight: 0.32 kg	Weight: 0.05 kg
15:44:38.482 -> Weight: 0.43 kg	Weight: 0.26 kg	Weight: 0.05 kg
15:44:38.532 -> Weight: 0.39 kg	Weight: 0.23 kg	Weight: 0.05 kg
15:44:38.672 -> Weight: 0.35 kg	Weight: 0.21 kg	Weight: 0.04 kg
15:44:38.761 -> Weight: 0.32 kg	Weight: 0.17 kg	Weight: 0.04 kg
15:44:38.875 -> Weight: 0.29 kg	Weight: 0.14 kg	Weight: 0.03 kg
15:44:38.957 -> Weight: 0.24 kg	Weight: 0.11 kg	Weight: 0.03 kg

• Hasil perhitungan tekanan pada kondisi air tenang

t (s)	S1 w(kg)	S2 w(kg)	S3 w(kg)	S1 F (N)	S2 F (N)	S3 F (N)	S1 P (N/m ²)	S2 P (N/m ²)	S3 P (N/m ²)
0.000	0.00	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00
0.057	0.00	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00
0.099	0.00	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00
0.180	4.64	3.86	1.39	45.47	37.83	13.62	50524.44	42031.11	15135.56
0.289	2.64	1.43	0.21	25.87	14.01	2.06	28746.67	15571.11	2286.67
0.460	2.18	1.32	0.19	21.36	12.94	1.86	23737.78	14373.33	2068.89
0.557	1.92	1.14	0.18	18.82	11.17	1.76	20906.67	12413.33	1960.00
0.662	1.87	1.03	0.15	18.33	10.09	1.47	20362.22	11215.56	1633.33
0.738	1.73	0.96	0.14	16.95	9.41	1.37	18837.78	10453.33	1524.44
0.839	1.68	0.94	0.12	16.46	9.21	1.18	18293.33	10235.56	1306.67
0.939	1.53	0.91	0.11	14.99	8.92	1.08	16660.00	9908.89	1197.78
1.038	1.47	0.81	0.10	14.41	7.94	0.98	16006.67	8820.00	1088.89
1.113	1.38	0.75	0.09	13.52	7.35	0.88	15026.67	8166.67	980.00
1.193	1.27	0.71	0.09	12.45	6.96	0.88	13828.89	7731.11	980.00
1.296	1.14	0.64	0.08	11.17	6.27	0.78	12413.33	6968.89	871.11
1.405	1.06	0.61	0.07	10.39	5.98	0.69	11542.22	6642.22	762.22
1.506	0.93	0.59	0.07	9.11	5.78	0.69	10126.67	6424.44	762.22
1.632	0.87	0.57	0.06	8.53	5.59	0.59	9473.33	6206.67	653.33
1.719	0.81	0.54	0.06	7.94	5.29	0.59	8820.00	5880.00	653.33
1.940	0.76	0.47	0.06	7.45	4.61	0.59	8275.56	5117.78	653.33
2.058	0.67	0.45	0.05	6.57	4.41	0.49	7295.56	4900.00	544.44
2.108	0.54	0.32	0.05	5.29	3.14	0.49	5880.00	3484.44	544.44

2.248	0.43	0.26	0.05	4.21	2.55	0.49	4682.22	2831.11	544.44
2.337	0.39	0.23	0.05	3.82	2.25	0.49	4246.67	2504.44	544.44
2.451	0.35	0.21	0.04	3.43	2.06	0.39	3811.11	2286.67	435.56
2.533	0.32	0.17	0.04	3.14	1.67	0.39	3484.44	1851.11	435.56

- **Visualiasasi Hasil Pengujian Dropping Test Pada Kemiringan Linggi Haluan 57 Derajat**



- **Grafik Hasil Pengujian Dropping Test Pada Air Tenang**

