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LAMPIRAN

Lampiran A. Hasil Pengolahan Data

Hasil Perhitungan Simulasi Penyerapan Energi Model Pada Software Abaqus Cae

SINGLE WALL			LANJUT			LANJUT
10 m/s	15.6 m/s	21.1 m/s				
0	0	0	6,319	9,818	14,120	11,065
0,345	0,392	0,028	6,438	10,055	16,438	11,214
0,706	0,952	0,786	6,551	10,258	20,222	11,400
0,977	1,343	1,151	6,660	10,544	25,227	11,571
1,190	1,637	1,418	6,764	10,840	36,810	11,728
1,372	1,887	1,821	6,862	11,082		11,874
1,534	2,105	2,288	6,957	11,290		12,013
1,682	2,300	2,580	7,125	11,500		12,145
1,819	2,478	2,812	7,293	11,770		12,273
1,947	2,642	3,308	7,422	12,021		12,397
2,068	2,794	3,739	7,521	12,251		12,515
2,182	3,145	4,175	7,615	12,456		12,626
2,289	3,447	4,643	7,706	12,649		12,732
2,392	3,623	4,990	7,804	13,246		13,015
2,489	3,828	5,254	7,980	14,789		13,416
2,587	4,146	5,635	8,192	16,637		14,005
2,850	4,487	6,080	8,370	18,973		14,706
3,096	4,799	6,481	8,526	21,863		15,447
3,335	4,991	7,008	8,668	25,333		16,193
3,659	5,157	7,444	8,814	33,911		16,885
3,906	5,352	7,778	9,005			17,574
4,062	5,755	8,094	9,197			18,267
4,178	6,055	8,553	9,374			18,814
4,271	6,314	8,898	9,529			19,225
4,406	6,674	9,295	9,664			19,589
4,565	7,007	9,734	9,784			19,981
4,756	7,266	10,066	9,894			20,491
4,939	7,479	10,346	9,994			21,000
5,161	7,658	10,803	10,085			21,462
5,396	7,923	11,146	10,175			
5,592	8,248	11,419	10,336			
5,763	8,528	11,719	10,505			
5,918	8,821	12,116	10,665			
6,061	9,206	12,479	10,811			
6,194	9,534	12,835	10,944			

SINGLE WALL FOAM FILLED					
10 m/s	15.6 m/s	21.1 m/s			
0	0	0	LANJUT		
0,609	0,732	1,558	15,635	35,631	82,562
1,229	1,764	2,827	15,979	37,194	86,099
1,778	2,594	3,959	16,364	39,194	89,710
2,270	3,313	5,149	16,736	41,055	92,799
2,725	4,039	6,400	17,087	42,796	95,532
3,154	4,805	7,525	17,431	44,535	98,011
3,562	5,610	8,602	17,758	46,176	100,146
3,972	6,422	9,850	18,075	47,680	101,865
4,374	7,120	11,099	18,381	49,046	103,094
4,766	7,797	12,222	18,672	50,305	103,696
5,147	8,502	13,268	18,949	51,579	
5,519	9,278	14,253	19,215	52,910	
5,895	10,019	15,268	19,470	54,087	
6,271	10,719	16,248	19,718	55,093	
6,632	11,380	17,417	19,961	55,936	
6,998	12,023	18,563	20,201	56,653	
7,399	12,658	19,619	20,437	57,272	
7,766	13,299	20,669	20,683	57,774	
8,108	13,931	21,729	20,939	58,120	
8,436	14,602	22,776	21,260	58,305	
8,792	15,519	23,797	21,591	58,339	
9,137	16,301	25,076	21,948	58,236	
9,531	17,020	26,286	22,275		
9,930	17,684	27,749	22,575		
10,324	18,343	30,823	22,848		
10,730	18,971	33,933	23,099		
11,100	19,604	36,967	23,325		
11,435	20,229	39,910	23,533		
11,771	20,849	42,867	23,717		
12,093	21,448	46,028	23,882		
12,404	22,513	49,124	24,032		
12,725	24,253	52,197	24,158		
13,068	25,843	55,374	24,257		
13,423	27,344	59,729	24,329		
13,864	28,772	64,196	24,376		
14,263	30,144	68,341	24,399		
14,627	31,473	72,194	24,398		
14,970	32,823	75,760	24,376		
15,303	34,228	79,206	24,334		

<i>DOUBLE WALL FOAM FILLED 1</i>					
10 m/s	15.6 m/s	21.1 m/s			
0	0	0	LANJUT		
0,684	0,803	1,722	16,995	34,329	68,615
1,431	2,022	3,216	17,280	35,395	71,830
2,105	3,100	4,594	17,560	36,455	75,917
2,722	4,050	5,972	17,830	37,509	80,378
3,284	4,851	7,215	18,094	38,530	85,419
3,798	5,545	8,619	18,350	39,565	90,570
4,225	6,433	9,972	18,601	40,639	95,731
4,579	7,361	11,383	18,841	41,662	100,108
4,999	8,406	12,840	19,069	42,610	103,152
5,421	9,315	13,901	19,292	43,494	104,020
5,802	10,125	14,936	19,506	44,327	
6,241	10,886	15,924	19,711	45,168	
6,734	11,494	17,024	19,911	46,030	
7,090	12,188	18,104	20,104	46,960	
7,403	12,836	19,367	20,291	47,938	
7,879	13,552	20,637	20,492	48,909	
8,287	14,327	21,874	20,695	49,877	
8,689	15,067	23,220	20,890	50,847	
9,066	15,752	24,371	21,075	51,798	
9,409	16,430	25,351	21,251	52,702	
9,793	17,343	26,243	21,414	53,560	
10,214	18,073	27,219	21,574	54,390	
10,631	18,778	28,436	21,728	55,189	
11,060	19,528	30,200	21,879	55,936	
11,509	20,297	32,426	22,028	56,614	
11,983	21,051	34,582	22,182	57,229	
12,412	21,765	36,713	22,338	57,762	
12,800	22,446	38,786	22,487	58,196	
13,162	23,146	40,824	22,627	58,528	
13,561	23,949	42,926	22,755	58,747	
13,940	24,921	45,200	22,872		
14,298	26,002	47,729	22,978		
14,649	26,964	50,431	23,073		
15,015	27,966	53,091	23,154		
15,361	29,067	55,586	23,221		
15,691	30,115	58,114	23,274		
16,046	31,160	60,746	23,312		
16,385	32,215	63,385	23,338		
16,699	33,268	66,089	23,350		

<i>DOUBLE WALL FOAM FILLED 2</i>					
10 m/s	15.6 m/s	21.1 m/s			
0	0	0	LANJUT		
0,689	0,808	1,741	17,280	35,723	74,851
1,436	2,035	3,243	17,581	36,942	78,071
2,110	3,109	4,639	17,872	38,178	81,379
2,727	4,069	6,117	18,154	39,360	84,684
3,302	4,979	7,431	18,423	40,453	88,153
3,843	5,709	8,821	18,683	41,469	91,773
4,313	6,570	10,252	18,934	42,459	95,433
4,707	7,572	11,695	19,171	43,421	99,032
5,096	8,549	13,286	19,397	44,379	102,216
5,534	9,534	14,453	19,614	45,335	104,748
5,962	10,429	15,506	19,820	46,306	106,213
6,361	11,110	16,515	20,020	47,267	106,417
6,844	11,793	17,575	20,213	48,178	105,676
7,298	12,450	18,790	20,400	49,041	
7,638	13,176	19,996	20,590	49,921	
8,079	13,876	21,332	20,785	50,821	
8,548	14,767	22,605	20,984	51,676	
8,931	15,556	23,879	21,176	52,520	
9,314	16,289	24,955	21,363	53,336	
9,680	17,036	25,947	21,539	54,122	
10,045	17,990	26,907	21,707	54,837	
10,435	18,832	28,105	21,869	55,507	
10,840	19,592	29,769	22,027	56,136	
11,316	20,290	31,827	22,182	56,721	
11,778	20,937	34,136	22,330	57,256	
12,207	21,566	36,534	22,479	57,735	
12,619	22,200	38,860	22,622	58,149	
13,032	22,852	41,164	22,756	58,492	
13,453	23,550	43,548	22,880	58,758	
13,841	24,389	45,964	22,993	58,946	
14,201	25,492	48,360	23,095	59,057	
14,556	26,636	50,763	23,185	59,087	
14,893	27,837	53,293	23,261	59,042	
15,256	29,049	56,022	23,322		
15,604	30,197	58,997	23,367		
15,938	31,298	62,199	23,397		
16,280	32,397	65,488	23,411		
16,634	33,485	68,636	23,411		
16,965	34,582	71,747	23,398		

<i>DOUBLE WALL FOAM FILLED 3</i>				
10 m/s	15.6 m/s	21.1 m/s		
0	0	0	LANJUT	
0,715507	0,845759	3,96876	17,9474	36,6966
1,46889	2,07494	8,75638	18,2356	37,918
2,13939	3,14969	13,6697	18,5088	39,2093
2,75747	4,10619	18,275	18,7683	40,5234
3,33336	5,05423	23,1118	19,0168	41,7931
3,87388	5,88574	26,863	19,256	43,0409
4,36404	6,73767	31,4739	19,4865	44,264
4,7861	7,78523	38,7142	19,7117	45,45
5,18174	8,82269	46,5696	19,9319	46,6377
5,62157	9,74751	54,7038	20,1471	47,8007
6,07839	10,6547	64,4161	20,3579	48,928
6,49251	11,5554	74,913	20,5634	50,0134
6,96315	12,4294	87,2673	20,7626	51,0549
7,46351	13,2697	99,6085	20,9549	52,0268
7,94656	14,089	106,852	21,1391	52,9328
8,52139	14,9039		21,3174	53,7688
9,0645	15,7854		21,5051	54,5439
9,56511	16,5783		21,6908	55,27
10,0344	17,3005		21,8688	55,9446
10,4798	18,0292		22,0404	56,5688
10,9101	18,9457		22,2072	57,1408
11,3616	19,7567		22,3701	57,663
11,7868	20,493		22,5267	58,1299
12,2405	21,162		22,6762	58,5353
12,6931	21,8511		22,8187	58,878
13,1286	22,5929		22,9547	59,1549
13,5628	23,2816		23,081	59,3657
13,9542	23,9182		23,1983	59,5086
14,3201	24,5335		23,308	59,5844
14,6881	25,2252		23,4092	59,5908
15,0297	26,0303		23,5023	
15,3406	27,2709		23,589	
15,6534	28,4931		23,6672	
15,9588	29,7146		23,7347	
16,2946	30,9251		23,7909	
16,6142	32,088		23,8352	
16,9163	33,2163			
17,2928	34,3638			
17,6367	35,5178			

<i>DOUBLE WALL FOAM FILLED 4</i>				
10 m/s	15.6 m/s	21.1 m/s		
0	0	0	LANJUT	
0,449784	1,67231	2,79722	21,2403	54,404
1,45729	3,15644	4,71127	21,4948	55,5939
2,33784	4,44277	6,73597	21,7312	56,6326
3,1342	5,71552	8,78749	21,954	57,5181
3,88148	7,06613	10,6759	22,1611	58,2655
4,59045	8,45216	12,8303	22,3562	58,8562
5,28146	9,74155	14,7913	22,5588	59,2601
5,88694	10,9024	16,6045	22,7641	59,4777
6,41429	12,0038	18,2544	22,9577	59,5183
7,04675	13,1541	19,9346	23,1422	
7,70021	14,2784	21,8092	23,3111	
8,29343	15,4448	23,6821	23,4629	
8,99923	16,4737	25,3671	23,5939	
9,64748	17,4919	26,9291	23,7089	
10,2379	18,6078	28,4284	23,8074	
10,809	19,8807	29,8884	23,8875	
11,385	20,9626	31,5831	23,947	
11,9373	21,9823	33,7141	23,9829	
12,5287	22,9389	36,9677	23,9944	
13,1163	23,8653	40,349	23,9833	
13,6918	24,7665	43,7169		
14,2157	25,6819	47,23		
14,6867	26,7114	50,8958		
15,1139	28,3057	54,3938		
15,5149	30,0993	58,2535		
15,9143	31,7886	62,6717		
16,3428	33,4193	67,1822		
16,8049	35,0181	71,7615		
17,33	36,5833	76,2362		
17,7949	38,1781	80,9164		
18,2214	39,8024	85,7686		
18,6185	41,6183	90,3859		
18,9971	43,5156	94,8258		
19,3622	45,4195	98,9548		
19,7148	47,1493	102,624		
20,0526	48,7438	105,351		
20,3723	50,2584	106,958		
20,6781	51,7147	107,33		
20,9652	53,1085	106,608		

<i>DOUBLE WALL FOAM FILLED 5</i>					
10 m/s	15.6 m/s	21.1 m/s			
0	0	0	LANJUT		
0,708872	0,840979	1,84183	18,2975	38,3474	85,7264
1,44769	2,05738	3,53765	18,6147	39,5763	88,8704
2,0968	3,12992	4,9722	18,9212	40,88	92,0447
2,69622	4,09598	6,45166	19,2185	42,2893	95,1282
3,26806	5,01541	7,79519	19,5075	43,7076	98,0667
3,8185	5,97193	9,45039	19,786	45,1024	100,763
4,35667	7,0131	11,0081	20,0599	46,5081	103,116
4,88567	8,05319	12,4431	20,329	47,8669	105,152
5,40143	9,06418	13,8085	20,5906	49,1213	106,663
5,90638	10,002	15,126	20,8432	50,3063	107,602
6,39725	10,8913	16,5202	21,0849	51,4462	
6,88692	11,7383	17,8292	21,3139	52,5488	
7,37953	12,5769	19,3117	21,5303	53,6024	
7,85476	13,4384	20,763	21,7339	54,5799	
8,31016	14,2839	22,1386	21,9256	55,4834	
8,85626	15,1425	23,4493	22,1106	56,3074	
9,37834	15,9629	24,7136	22,2885	57,0298	
9,85766	16,7366	25,9693	22,4588	57,6473	
10,3063	17,5072	27,3474	22,6239	58,1744	
10,7352	18,3146	28,7205	22,7794	58,6137	
11,1497	19,2914	30,2168	22,9284	58,96	
11,5906	20,1702	31,9204	23,0701	59,1965	
12,007	20,9673	33,9115	23,2047	59,3157	
12,4627	21,7332	36,2872	23,3334		
12,9095	22,4788	38,874	23,4543		
13,345	23,2052	41,5067	23,5671		
13,7857	23,9297	44,1397	23,6706		
14,207	24,6375	46,8157	23,7666		
14,5922	25,3561	49,6174	23,8542		
14,9507	26,1096	52,5862	23,933		
15,2919	26,8931	55,4635	24,0026		
15,6307	28,1466	58,2917	24,0622		
15,9459	29,5901	61,455	24,1123		
16,2597	30,9453	64,9729	24,1523		
16,566	32,248	68,6251	24,1819		
16,8887	33,5105	72,1639	24,2009		
17,2234	34,7316	75,6926	24,2093		
17,611	35,9343	79,15			
17,9656	37,133	82,5143			

<i>DOUBLE WALL FOAM FILLED 6</i>					
10 m/s	15.6 m/s	21.1 m/s			
0	0	0	LANJUT		
0,647464	0,827288	1,80302	16,9129	41,0999	87,0451
1,24545	2,014	3,42068	17,2952	42,4693	90,1696
1,7928	3,11631	4,81652	17,6826	43,9254	93,2782
2,30052	4,12671	6,26799	18,0702	45,3676	96,2536
2,78213	5,10131	7,75274	18,4471	46,7544	98,9581
3,24219	6,04074	9,35981	18,8032	48,0754	101,281
3,68504	6,94235	10,9221	19,1359	49,3277	103,366
4,12982	7,86678	12,354	19,4474	50,5612	105,17
4,56516	8,82467	13,7162	19,7421	51,7563	106,565
4,9882	9,72753	15,0258	20,0217	52,8665	107,422
5,40114	10,7716	16,3884	20,2875	53,921	
5,85069	11,6953	17,7119	20,545	54,9031	
6,28692	12,5579	19,2021	20,7966	55,8012	
6,69731	13,4307	20,6669	21,0531	56,6077	
7,0988	14,3039	21,9433	21,3091	57,3493	
7,60691	15,2136	23,2796	21,5594	58,0026	
8,11677	16,2502	24,6744	21,8025	58,5623	
8,58193	17,2191	26,0278	22,0447	59,0229	
9,01658	18,2078	27,3377	22,2819	59,3793	
9,42831	19,1514	28,6222	22,5176	59,6233	
9,82281	20,0489	29,9437	22,7636	59,7542	
10,2045	20,9157	31,4244	23,0173	59,7708	
10,5755	21,7549	33,3136	23,2537	59,6816	
10,9386	22,5686	35,8486	23,4689		
11,2956	23,3648	38,9247	23,667		
11,6486	24,1833	41,9385	23,8497		
11,9982	25,0613	44,8158	24,0156		
12,3445	25,9416	47,6464	24,1657		
12,6926	26,9028	50,4873	24,3023		
13,0692	27,9875	53,3523	24,4244		
13,4425	29,3502	56,2489	24,5346		
13,7992	30,7646	59,1783	24,6319		
14,1401	32,1097	62,4501	24,7085		
14,517	33,4261	66,1055	24,7606		
14,9476	34,7226	69,8565	24,7897		
15,3628	35,9985	73,53	24,796		
15,7613	37,2652	77,0453			
16,1526	38,5332	80,4726			
16,5363	39,8091	83,8481			

<i>DOUBLE WALL FOAM FILLED 7</i>					
10 m/s	15.6 m/s	21.1 m/s			
0	0	0	LANJUT		
0,691	0,831	1,756	18,424	39,580	85,159
1,414	2,026	3,257	18,782	40,973	88,419
2,048	3,069	4,629	19,124	42,500	91,803
2,631	3,988	6,055	19,452	44,014	94,906
3,180	4,883	7,588	19,768	45,468	97,637
3,709	5,801	8,982	20,074	46,846	100,010
4,219	6,799	10,296	20,370	48,196	102,073
4,727	7,811	11,794	20,652	49,587	103,896
5,225	8,778	13,357	20,919	50,877	105,333
5,711	9,682	14,735	21,173	52,070	106,254
6,184	10,550	16,020	21,416	53,216	
6,656	11,397	17,272	21,647	54,330	
7,132	12,227	18,526	21,867	55,353	
7,591	13,067	19,778	22,077	56,250	
8,033	13,896	21,236	22,276	57,025	
8,563	14,732	22,690	22,464	57,686	
9,063	15,571	24,032	22,639	58,232	
9,526	16,349	25,342	22,801	58,667	
9,964	17,139	26,642	22,960	58,996	
10,382	17,986	27,876	23,110	59,219	
10,801	19,021	29,103	23,252		
11,238	19,957	30,454	23,385		
11,661	20,821	32,026	23,510		
12,134	21,640	34,210	23,624		
12,593	22,427	37,091	23,727		
13,044	23,195	39,983	23,820		
13,507	23,951	42,826	23,903		
13,938	24,710	45,718	23,976		
14,335	25,493	48,625	24,041		
14,705	26,334	51,604	24,096		
15,074	27,511	54,638	24,141		
15,429	28,975	57,564	24,177		
15,767	30,439	60,668	24,203		
16,116	31,809	64,348	24,218		
16,461	33,141	68,058	24,223		
16,826	34,457	71,784	24,216		
17,235	35,752	75,393			
17,660	37,035	78,784			
18,052	38,308	82,030			

<i>DOUBLE WALL FOAM FILLED 8</i>					
10 m/s	15.6 m/s	21.1 m/s			
0	0	0	LANJUT		
0,680789	0,810994	1,73025	18,1303	39,8148	86,4581
1,38246	1,9723	3,17652	18,5049	41,299	89,634
1,99681	2,94401	4,5054	18,8623	42,9644	92,9099
2,55635	3,8138	5,89446	19,2039	44,5501	95,9195
3,08585	4,68153	7,36534	19,5331	46,0339	98,4928
3,59266	5,58691	8,70706	19,8521	47,4288	100,707
4,08187	6,53788	9,98618	20,1616	48,8069	102,567
4,57082	7,5098	11,416	20,4575	50,1907	104,055
5,05279	8,35244	12,8961	20,7394	51,458	105,224
5,52434	9,1569	14,2283	21,0061	52,6291	105,979
5,98343	10,0012	15,4699	21,2585	53,76	
6,43968	10,9122	16,6765	21,5002	54,8514	
6,89874	11,7972	17,886	21,7305	55,8223	
7,34322	12,6274	19,0765	21,9503	56,6594	
7,77129	13,4289	20,518	22,1607	57,3688	
8,27616	14,2171	21,9366	22,3612	57,9523	
8,75668	14,9937	23,2599	22,5523	58,4227	
9,20145	15,7843	24,5752	22,7345	58,7835	
9,62221	16,5732	25,9227	22,9083	59,0212	
10,0252	17,3558	27,2425	23,0754	59,1421	
10,4355	18,3687	28,5709	23,2344		
10,8564	19,2795	30,0272	23,3843		
11,2799	20,1302	31,715	23,5273		
11,7402	20,9478	34,0083	23,6646		
12,1895	21,7493	37,0574	23,7931		
12,6357	22,5429	40,0905	23,9089		
13,0903	23,3406	43,04	24,0131		
13,5068	24,1539	45,9936	24,1049		
13,8911	24,989	48,98	24,1839		
14,2629	25,9086	52,0899	24,2503		
14,6348	27,1738	55,2209	24,3042		
14,985	28,8185	58,2945	24,3457		
15,3398	30,3488	61,5375	24,3744		
15,6899	31,7718	65,4264	24,3894		
16,0731	33,1458	69,3066	24,3905		
16,4616	34,4918	73,1263	24,3785		
16,9181	35,8225	76,8025			
17,3453	37,1462	80,2103			
17,7451	38,4707	83,4024			

<i>DOUBLE WALL FOAM FILLED 9</i>					
10 m/s	15.6 m/s	21.1 m/s	LANJUT		
0	0	0			
0,652492	0,79053	1,70493	17,3777	38,7682	87,0853
1,3285	1,91621	3,25278	17,7514	40,276	90,3423
1,91	2,88292	4,53708	18,1205	42,0852	93,7076
2,43974	3,74733	5,86523	18,4715	43,8055	96,6987
2,93962	4,54329	7,21068	18,8075	45,4006	99,1897
3,41717	5,36224	8,65913	19,133	46,9011	101,224
3,87735	6,26472	9,99857	19,4515	48,4345	102,891
4,33929	7,15659	11,2585	19,7579	49,8374	104,213
4,79477	8,01275	12,4858	20,051	51,109	105,109
5,24111	8,82981	13,6721	20,3306	52,2802	105,454
5,67558	9,63161	14,9218	20,5965	53,4109	
6,11355	10,401	16,1154	20,8496	54,5564	
6,5478	11,1596	17,5431	21,0907	55,5522	
6,96806	11,9282	18,867	21,3249	56,3916	
7,37099	12,6687	20,085	21,5489	57,0813	
7,89042	13,5424	21,2238	21,7663	57,6457	
8,3451	14,2856	22,321	21,9761	58,1054	
8,76478	14,9942	23,4258	22,1802	58,4461	
9,16083	15,7095	24,6629	22,378	58,6418	
9,53902	16,499	25,9436	22,5706	58,6894	
9,92966	17,4552	27,4308	22,7618		
10,3262	18,3087	28,8997	22,9557		
10,7341	19,1169	30,3671	23,1511		
11,1739	19,8962	32,3994	23,3318		
11,6036	20,6687	35,4008	23,5017		
12,0384	21,4313	38,3576	23,6612		
12,4668	22,2001	41,3546	23,8076		
12,8612	22,9628	44,383	23,939		
13,2253	23,7386	47,4636	24,0551		
13,589	24,5785	50,6828	24,1575		
13,9399	25,7519	53,8746	24,2454		
14,2733	27,4617	57,1022	24,3184		
14,6224	29,0318	60,5895	24,3758		
14,9772	30,5055	64,7895	24,4153		
15,3498	31,9398	69,0256	24,4364		
15,7908	33,3325	73,0502	24,4395		
16,2211	34,6981	76,8577			
16,6201	36,0485	80,4598			
17,0036	37,4019	83,8967			

<i>DOUBLE WALL FOAM FILLED 10</i>					
10 m/s	15.6 m/s	21.1 m/s			
0	0	0	LANJUT		
0,647464	0,807609	1,69349	16,9129	37,9269	85,8823
1,24545	1,8342	3,18594	17,2952	39,5099	89,3293
1,7928	2,75175	4,53182	17,6826	41,3636	92,7863
2,30052	3,61971	5,78916	18,0702	43,1762	95,8579
2,78213	4,4472	7,05971	18,4471	44,8841	98,2848
3,24219	5,23919	8,2718	18,8032	46,4683	100,442
3,68504	5,98122	9,51969	19,1359	47,962	102,283
4,12982	6,81427	10,7183	19,4474	49,379	103,721
4,56516	7,61259	11,8995	19,7421	50,6955	104,678
4,9882	8,42425	13,0917	20,0217	51,9367	104,998
5,40114	9,4195	14,2319	20,2875	53,1347	
5,85069	10,273	15,4938	20,545	54,3176	
6,28692	11,0666	16,8256	20,7966	55,3661	
6,69731	11,8072	18,1023	21,0531	56,2563	
7,0988	12,5136	19,2441	21,3091	57,0163	
7,60691	13,2016	20,3051	21,5594	57,6398	
8,11677	13,8701	21,329	21,8025	58,1496	
8,58193	14,5808	22,3467	22,0447	58,541	
9,01658	15,2991	23,5022	22,2819	58,7882	
9,42831	16,0485	24,7032	22,5176	58,902	
9,82281	16,9393	26,0637	22,7636		
10,2045	17,6942	27,3644	23,0173		
10,5755	18,4085	28,7663	23,2537		
10,9386	19,0832	30,449	23,4689		
11,2956	19,8344	33,4108	23,667		
11,6486	20,5354	36,3879	23,8497		
11,9982	21,3578	39,4021	24,0156		
12,3445	22,2451	42,4431	24,1657		
12,6926	23,1098	45,5827	24,3023		
13,0692	23,9866	48,7086	24,4244		
13,4425	24,9825	51,8905	24,5346		
13,7992	26,4802	55,1498	24,6319		
14,1401	27,9502	58,5402	24,7085		
14,517	29,3756	62,7388	24,7606		
14,9476	30,7598	67,2017	24,7897		
15,3628	32,1354	71,415			
15,7613	33,5758	75,3262			
16,1526	35,0084	79,0476			
16,5363	36,4494	82,5575			

Lampiran B. Rata-rata Energi Absorption Setiap Model

Tabel Nilai rata-rata kemampuan penyerapan energi Module Absorber terhadap *frontal crash* pada kecepatan 10 m/s, 15.6 m/s, dan 21.1 m/s.

MODEL	Energy Absorption (kJ)			Average Energy Absorption (kJ)
	10 m/s	15.6 m/s	21.1 m/s	
SW	21.462	33.91	36.810	30.728
SWFF	24.334	58.24	103.696	62.089
DWFF1	23.350	58.75	104.020	62.039
DWFF2	23.398	59.04	105.676	62.705
DWFF3	23.835	59.59	106.852	63.426
DWFF4	23.983	59.52	106.608	63.370
DWFF5	24.209	59.32	107.602	63.709
DWFF6	24.796	59.68	107.422	63.967
DWFF7	24.216	59.22	106.254	63.230
DWFF8	24.379	59.14	105.979	63.167
DWFF9	24.440	58.69	105.454	62.861
DWFF10	24.790	58.90	104.998	62.897



