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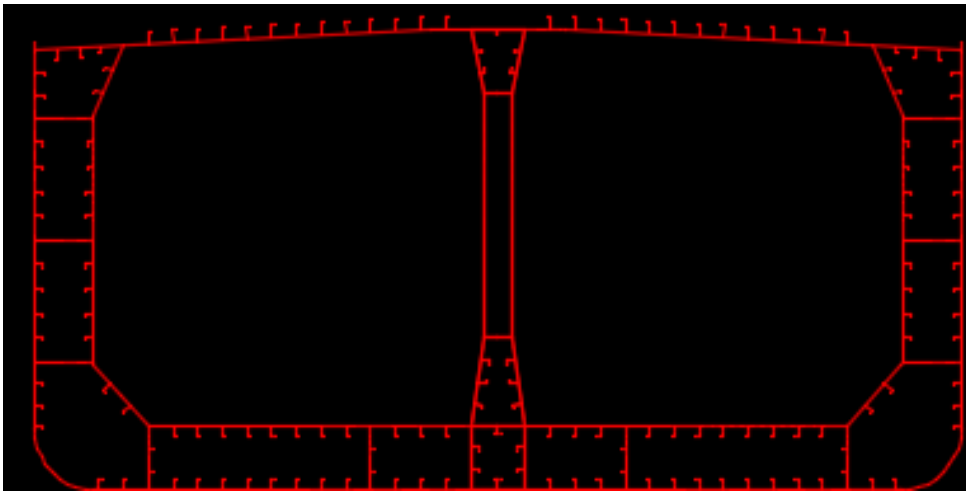
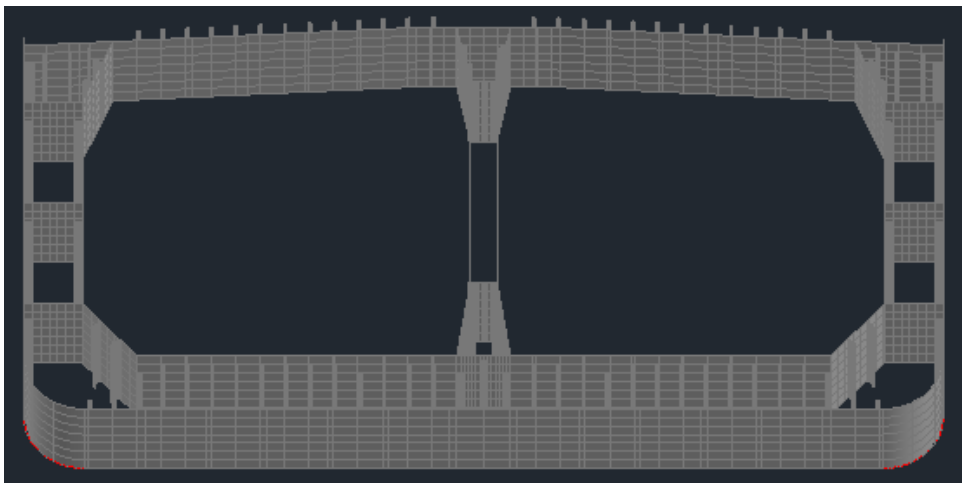
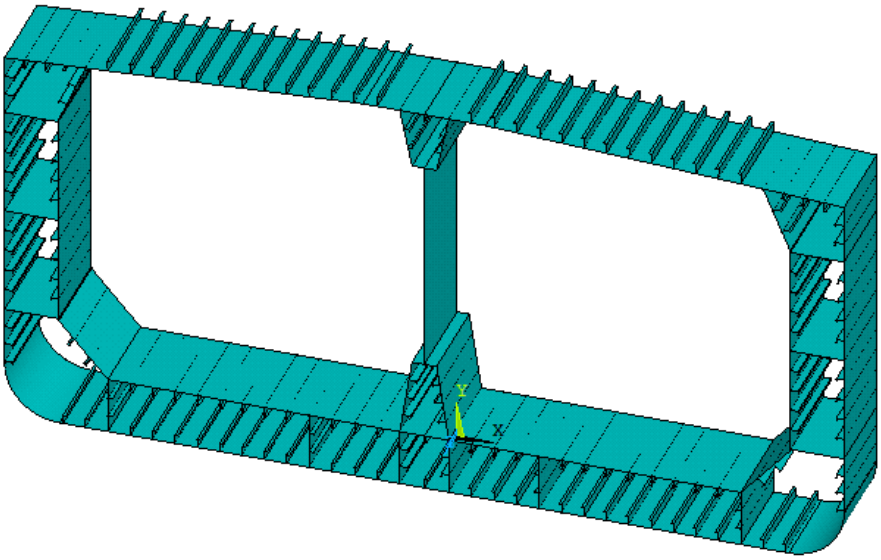
LAMPIRAN

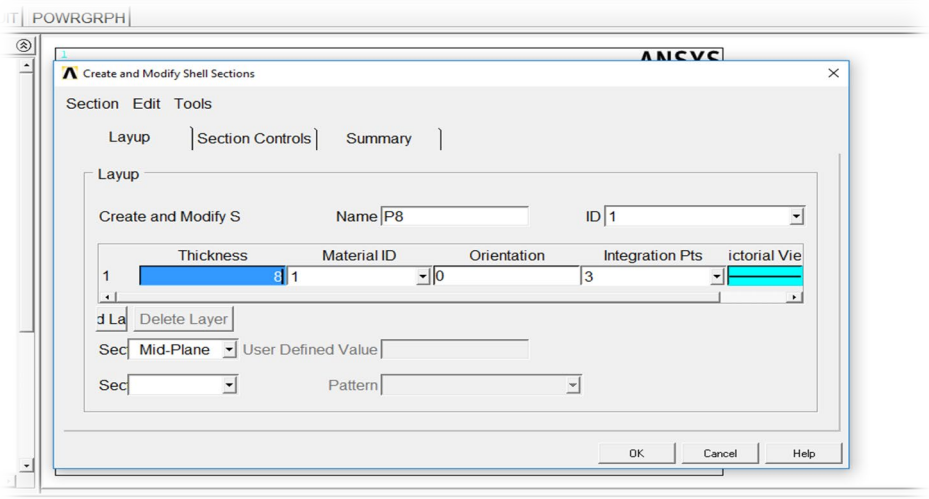
Lampiran 1 langkah – langkah pengerjaan penelitian



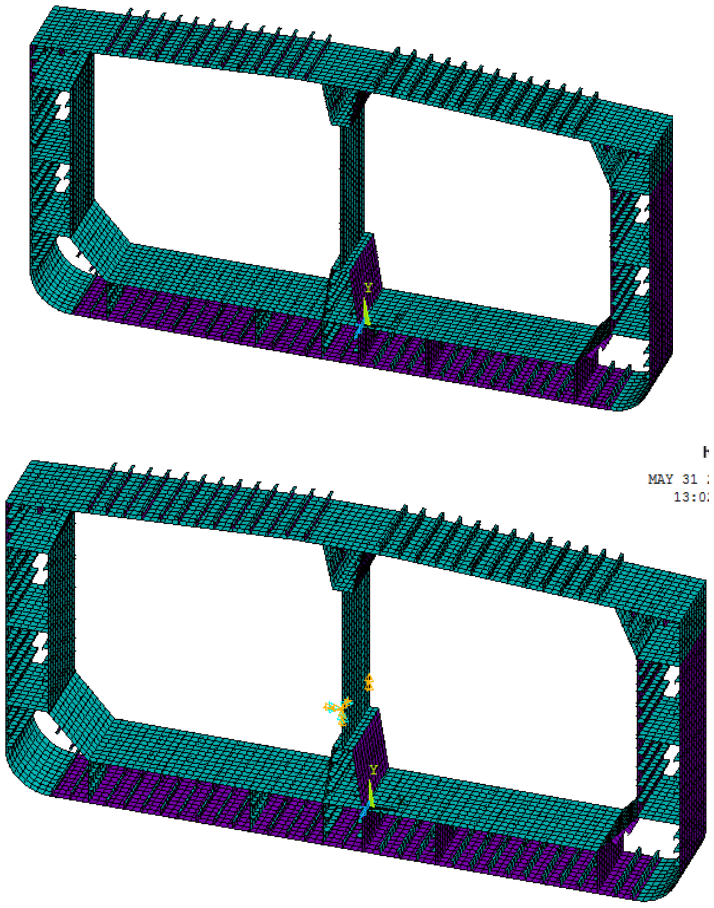




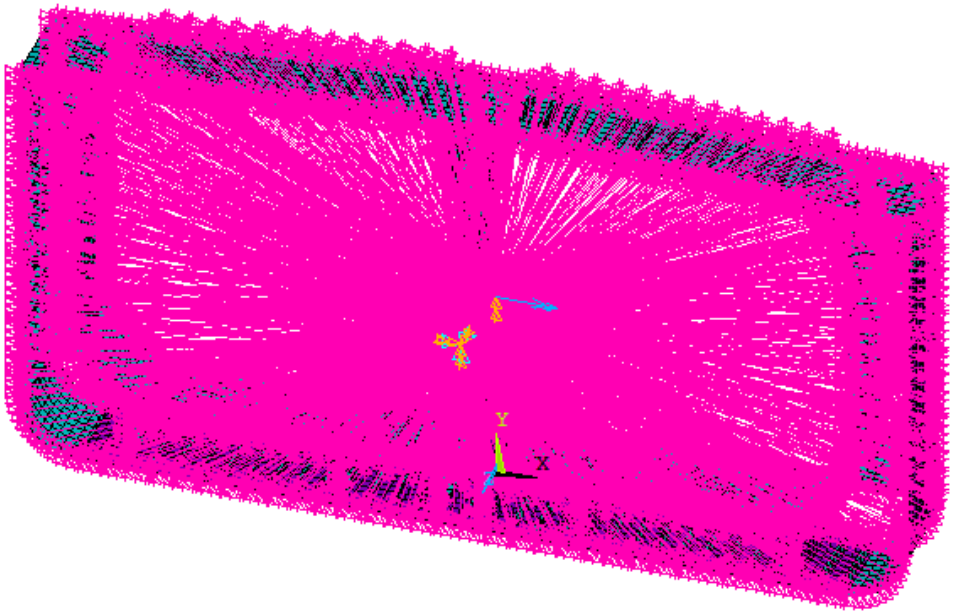
Model dalam bentuk 2D digambar diAutocad kemudian diImport ke software Ansys untuk mendapatkan gambar 3D



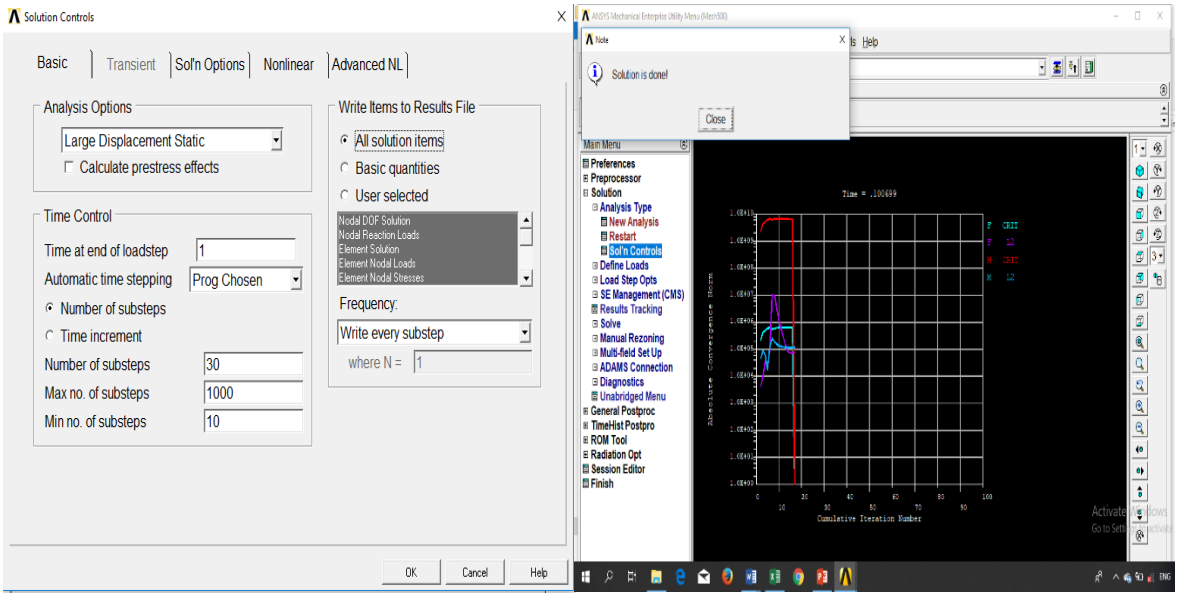
Penginputan Type Material dan Ketebalan



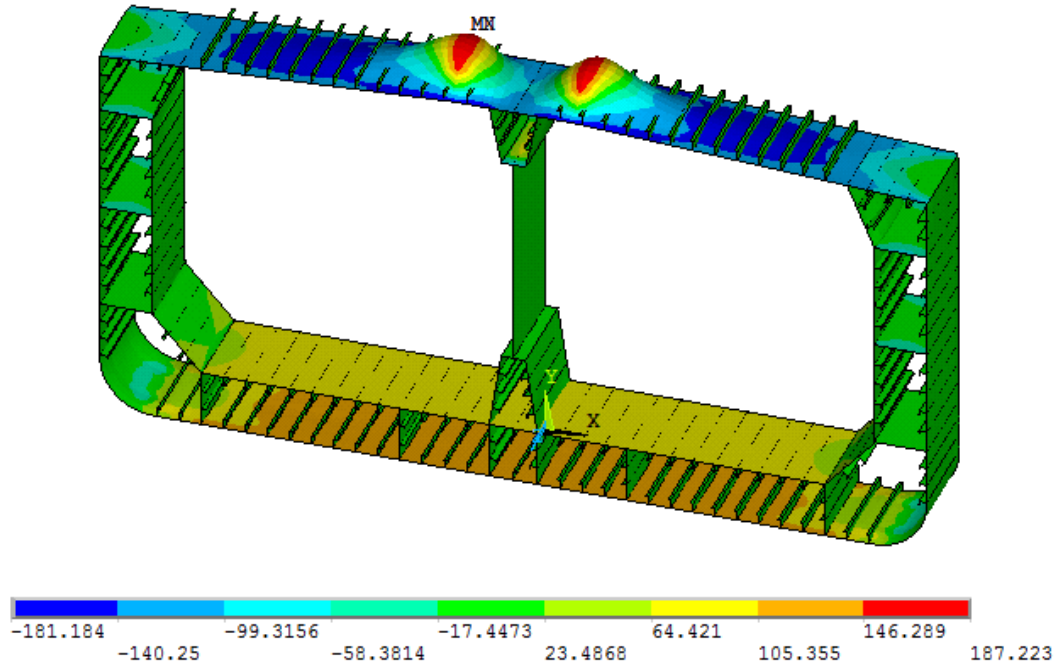
Melakukan Merge dan Glue pada model. Kemudian setelah itu dilakukan Meshing dan memberikan tumpuan / MPC.

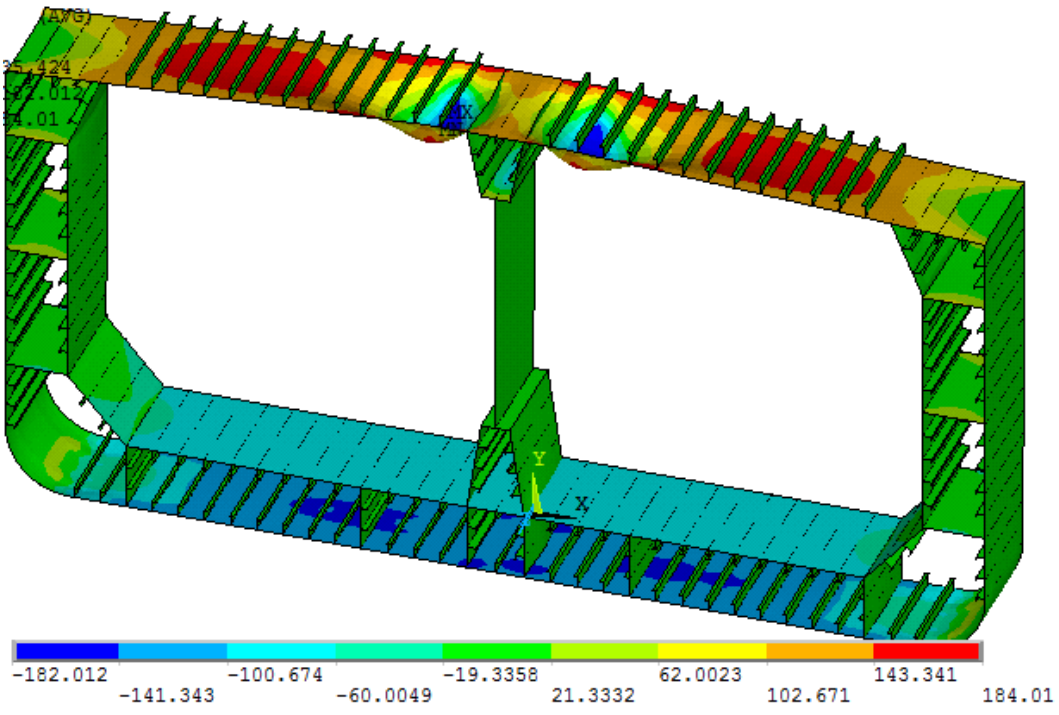


Melakukan Rigid dan memberikan beban pada titik tumpu yang telah dipasang sebelumnya



Memberikan jumlah substep, maximal no. substep, dan minimal no. substep pada model. Kemudian setelah itu dilakukan proses running.





Hasil Running dan Deformasi Single Sekat dan Double Sekat

Lampiran 2 Tabel Perhitungan

Tabel Perhitungan Kekuatan *Chemical Tanker* Menggunakan Metode NLFEA Kondisi *hogging*

Kondisi *Hogging*	
Momen x 10^{12} Nmm	*curvature* / 10^{3} mm^{-1}
0	0
0.8	0.162009
1.6	0.324019
2.38502	0.483169
3.03963	0.617968
3.35909	0.715012
3.50981	0.786638
3.64488	0.876992
3.74171	0.954403
3.80817	1.04956
3.85806	1.12569
3.92036	1.24023
3.94995	1.31737
4.00923	1.44016
4.01942	1.50471
4.05038	1.59106
4.06322	1.67348
4.09156	1.76039
4.11585	1.88716
4.11389	1.96651
4.13417	2.05148
4.14385	2.13893
4.14131	2.22674
4.13966	2.24892
4.13626	2.30221
4.16065	2.43163
4.16111	2.51085
4.17426	2.59376
4.14962	2.69469
4.1127	2.79819
4.0753	2.8448
4.05704	2.86274
4.03654	2.89498

4.02845	2.90153
4.02831	2.93147

Tabel Perhitungan Kekuatan Kapal *Chemical Tanker* Menggunakan Metode NLFEA Kondisi *sagging*

Kondisi *Sagging*	
Momen x 10^{12} Nmm	*curvature* / 10^{3} mm^{-1}
0	0
-0.6	-0.121507
-1.2	-0.243014
-1.8	-0.364521
-2.3849	-0.483144
-2.91339	-0.591307
-3.2144	-0.659797
-3.44154	-0.751995
-3.55595	-0.813081
-3.64085	-0.87293
-3.71021	-0.930222
-3.77689	-0.997417
-3.82684	-1.06908
-3.86479	-1.13188
-3.90205	-1.20162
-3.92736	-1.26394
-3.96192	-1.33018
-3.98986	-1.39566
-4.00751	-1.45737
-4.03047	-1.52317
-4.05182	-1.59481
-4.07357	-1.66697
-4.07928	-1.7273
-4.10336	-1.80475
-4.10974	-1.87431
-4.11255	-1.91438
-4.12792	-2.00452
-4.12958	-2.07144
-4.12619	-2.11278
-4.14492	-2.15175
-4.14599	-2.22675

-4.14969	-2.28867
-4.15306	-2.33871
-4.16398	-2.40329
-4.16183	-2.46659
-4.17148	-2.54892
-4.1662	-2.60362
-4.17581	-2.66519
-4.17494	-2.69294
-4.18333	-2.73541
-4.18091	-2.78839
-4.19012	-2.91257
-4.18219	-2.97348
-4.19898	-3.07301
-4.18883	-3.12273
-4.19166	-3.17337
-4.18759	-3.21996
-4.1962	-3.26908
-4.20187	-3.33803
-4.21153	-3.42157
-4.2115	-3.46441
-4.2107	-3.56258
-4.19325	-3.56277
-4.19718	-3.56307
-4.20164	-3.56331
-4.20151	-3.56335
-4.19801	-3.56279
-4.20633	-3.56499
-4.2112	-3.56652
-4.21155	-3.56684
-4.20324	-3.56584
-4.20304	-3.56604
-4.20363	-3.56625
-4.20879	-3.56791
-4.20658	-3.56838
-4.20647	-3.5684