

DAFTAR PUSTAKA

- Alie, M. Z. M. (2016). *Residual Strength Analysis of Asymmetrically Damaged Ship Hull Girder using Beam Finite Element Method*. Makara Journal of Technology.
- Alie, M. Z. M. (2017). *The Effect of Symmetrical and Asymmetrical Configuration Shapes on Buckling and Fatigue Strength Analysis of Fixed Offshore Platforms*. International Journal of Technology.
- Alie, M. Z. M. (2018). *Simplified Approach on the Ultimate Hull Girder Strength of Asymmetrically Damaged Ships*. International Journal of Offshore and Polar Engineering.
- Alie, M. Z. M. (2019). *Progressive Collapse Analysis of the Local Elements and Ultimate Strength of a Ro-Ro Ship*. International Journal of Technology.
- Alie, M. Z. M., & Adiputra, R. (2018). *Investigation of Ship Hull Girder Strength with Grounding Damage*. Makara Journal of Technology.
- Alie, M. Z. M., Fujikubo, M., Takemura, K., Iijima, K., & Oka, S. (2012). *Residual Hull Girder Strength of Asymmetrically Damaged Ships*. jstage.jst.go.jp.
- Alie, M. Z. M., Ramadhan, M. I., & Suci, I. M. (2021). *Aplikasi Multiple Point Constrained (MPC) pada Penampang Kapal*. deepublish.
- American Petroleum Institute Recommended Practice 2A*. (1989).
- Bachman. (1991). *Ship Hydrodynamics*. National Academy.
- Bai, Y. (2003). *Marine Structural Design*. Elsevier.
- Biro Klasifikasi Indonesia. (2019). In *Rules for Hull edisi II* (pp. 1–39).
- Campanile, A. (2018). *Conditional reliability of bulk carriers damaged by ship collisions*. Elsevier.
- Choirun, D., Zakki, A., & Rindo, G. (2015). Analisa Fatigue Crude Oil Tanker 306507 DWT Berdasarkan Common Structural Rules (CSR) Oil Tanker. *Jurnal Teknik Perkapalan*. <https://ejournal3.undip.ac.id/index.php/naval/article/view/7918>
- Common Structural Rules for Bulk Carriers and Oil Tanker. (2014). In *IACS*.
- DNV GL. (2017b). Hull Girder Strength. In *Rules for Classification: Ships* (p. Pt.3 Ch.5).
- DNV GL. (2017a). Loads. In *Rules for Classification: Ships* (p. Pt.3 Ch.4). Norway.
- E.C. Tupper. (2004). *Introduction to Naval Architecture Fourth Edition*. Elsevier.
- Eyres. (1998). *Ship Construction*. National Academy Press.

- Garbatov, Y., Saad-Eldeen, S., & Soares, C. G. (2015). *Hull girder ultimate strength assessment based on experimental results and the dimensional theory*. Elsevier.
- Guidance and Standars. (2012). In CAP 437. Safety Regulation Group.
- Guo, J., Wang, G., Ivanov, L., & Perakis, A. N. (2008). Time-varying Ultimate Strength of Aging Tanker Deck Plate Considering Corrosion Effect. *Marine Structures*, 21(4), 402–419. <https://doi.org/10.1016/j.marstruc.2008.03.002>
- Kapal Chemical Tanker*. (2022). <https://tradewindsnews.com>
- Kapal Crude Oil Carriers*. (2022). <https://www.broen.com>
- Kim, D. K., Park, D. H., Kim, H. B., Kim, B. J., Seo, J. K., & Paik, J. K. (2013). *Lateral pressure effects on the progressive hull collapse behaviour of a Suezmax-class tanker under vertical bending moments*. Ocean Engineering.
- Liquified Natural Gas (LNG) Tanker*. (2022). <https://shippingwatch.com>
- Liu, B., Soares, C. (2016). *Assessment of the strength of double-hull tanker side structures in minor ship collisions*. Elsevier.
- M, Shama. (2013). *Buckling of Ship Structure*. Springer.
- OF, Huges., & J.K, Paik. (2010). *Ship Structural Analysis and Design. The Society of Naval Architecture and Marine Engineering-SNAME*. New Jersey.
- Paik, J.K. (2007). *Ultimate limit state performance of oil tanker structures designed by IACS common structural rules*. Journal Thin-Walled Structures.
- Paik, J.K., B.J, Kim., & J.K, Seo. (2008). *Methods for Ultimate Limit State Assessment of Ship and Ship-Shaped Offshore Structures: Part III hull girders*. Journal Ocean Engineering.
- Parunov, J., Rudan, S., & Primorac, B. B. (2017). *Residual ultimate strength assessment of double hull oil tanker after collision*. Elsevier.
- Spence, J. H., Favini, E. A., & Page, C. A. (2015). *Finite Element Modeling Methods: Vibration Analysis for Ships*.
- Utami, B. T. (2016). *Efek Prestrain pada Baja AISI 1020 Terhadap Perambatan Retak Fatik*. Universitas Lampung.
- Wijaya, A.-T. A. (2017). *Analisa Kekuatan Kosntruksi Geladak Corrugated dengan Strong Beam Pada Longitudinal Framing System Kapal Tanker 17.500 DWT* [Institut Teknologi Sepuluh November]. <http://repository.its.ac.id/45786/>
- Yang, K. H. (2017). Prescribing Boundary and Loading Conditions to Corresponding Nodes. In *Basic Finite Element Method as Applied to Injury Biomechanics* (pp. 257–280). Elsevier Inc. <https://doi.org/10.1016/B978-0-12->

809831-8.00006-4

Zhao, N., Chen, B.-Q., Zhou, Y.-Q., Li, Z.-J., Hu, J.-J., & Soares, C. G. (2022). Experimental and Numerical Investigation on the Ultimate Strength of a Ship Hull Girder Model with Deck Openings. *Marine Structures*, 83.

LAMPIRAN

Lampiran 1 Konfigurasi Stifener Kapal Tanker T2

Stiffener No.	Description	Type
1	300 x 18 + 90 x 14	Angle Bar
2	200 x 9 + 90 x 14	Angle Bar
3	250 x 10 + 90 x 15	Angle Bar
4	250 x 10 + 90 x 15	Angle Bar
5	250 x 10 + 90 x 15	Angle Bar
6	250 x 10 + 90 x 15	Angle Bar
7	250 x 10 + 90 x 15	Angle Bar
8	350 x 11 + 100 x 17	Angle Bar
9	250 x 10 + 90 x 15	Angle Bar
10	250 x 10 + 90 x 15	Angle Bar
11	250 x 10 + 90 x 15	Angle Bar
12	250 x 10 + 90 x 15	Angle Bar
13	250 x 10 + 90 x 15	Angle Bar
14	250 x 10 + 90 x 15	Angle Bar
15	250 x 10 + 90 x 15	Angle Bar
16	250 x 10 + 90 x 15	Angle Bar
17	350 x 11 + 100 x 17	Angle Bar
18	250 x 10 + 90 x 15	Angle Bar
19	250 x 10 + 90 x 15	Angle Bar
20	250 x 10 + 90 x 15	Angle Bar
21	250 x 10 + 90 x 15	Angle Bar
22	250 x 10 + 90 x 15	Angle Bar
23	250 x 10 + 90 x 15	Angle Bar
24	250 x 10 + 90 x 15	Angle Bar
25	250 x 10 + 90 x 15	Angle Bar
26	250 x 10 + 90 x 15	Angle Bar
27	350 x 11 + 100 x 17	Angle Bar
28	350 x 11 + 100 x 17	Angle Bar
29	350 x 11 + 100 x 17	Angle Bar
30	350 x 11 + 100 x 17	Angle Bar
31	350 x 11 + 100 x 17	Angle Bar
32	350 x 11 + 100 x 17	Angle Bar
33	350 x 11 + 100 x 17	Angle Bar
34	350 x 11 + 100 x 17	Angle Bar
35	350 x 11 + 100 x 17	Angle Bar

36	350 x 11 + 100 x 17	Angle Bar
37	350 x 11 + 100 x 17	Angle Bar
38	350 x 11 + 100 x 17	Angle Bar
39	350 x 11 + 100 x 17	Angle Bar
40	350 x 11 + 100 x 17	Angle Bar
41	350 x 11 + 100 x 17	Angle Bar
42	250 x 10 + 90 x 15	Angle Bar
43	250 x 10 + 90 x 15	Angle Bar
44	400 x 11.5 + 100 x 16	Angle Bar
45	400 x 11.5 + 100 x 16	Angle Bar
46	400 x 11.5 + 100 x 16	Angle Bar
47	400 x 11.5 + 100 x 16	Angle Bar
48	400 x 11.5 + 100 x 16	Angle Bar
49	400 x 11.5 + 100 x 16	Angle Bar
50	350 x 11 + 100 x 17	Angle Bar
51	350 x 11 + 100 x 17	Angle Bar
52	250 x 10 + 90 x 15	Angle Bar
53	300 x 10 + 90 x 16	Angle Bar
54	300 x 10 + 90 x 16	Angle Bar
55	300 x 10 + 90 x 16	Angle Bar
56	300 x 10 + 90 x 16	Angle Bar
57	250 x 10 + 90 x 15	Angle Bar
58	250 x 9 + 90 x 14	Angle Bar
59	250 x 9 + 90 x 14	Angle Bar
60	250 x 9 + 90 x 14	Angle Bar
61	250 x 9 + 90 x 14	Angle Bar
62	200 x 9 + 90 x 14	Angle Bar
63	200 x 9 + 90 x 14	Angle Bar
64	200 x 9 + 90 x 14	Angle Bar
65	200 x 9 + 90 x 14	Angle Bar
66	200 x 9 + 90 x 14	Angle Bar
67	200 x 9 + 90 x 14	Angle Bar
68	200 x 9 + 90 x 14	Angle Bar
69	250 x 10 + 90 x 15	Angle Bar
70	250 x 10 + 90 x 15	Angle Bar
71	250 x 10 + 90 x 15	Angle Bar
72	250 x 10 + 90 x 15	Angle Bar
73	250 x 10 + 90 x 15	Angle Bar
74	250 x 10 + 90 x 15	Angle Bar
75	250 x 10 + 90 x 15	Angle Bar

76	250 x 10 + 90 x 15	Angle Bar
77	250 x 10 + 90 x 15	Angle Bar
78	250 x 10 + 90 x 15	Angle Bar
79	250 x 10 + 90 x 15	Angle Bar
80	250 x 10 + 90 x 15	Angle Bar
81	250 x 10 + 90 x 15	Angle Bar
82	250 x 10 + 90 x 15	Angle Bar
83	250 x 10 + 90 x 15	Angle Bar
84	250 x 10 + 90 x 15	Angle Bar
85	250 x 10 + 90 x 15	Angle Bar
86	250 x 10 + 90 x 15	Angle Bar
87	250 x 10 + 90 x 15	Angle Bar
88	250 x 10 + 90 x 15	Angle Bar
89	250 x 10 + 90 x 15	Angle Bar
90	250 x 10 + 90 x 15	Angle Bar
91	250 x 10 + 90 x 15	Angle Bar
92	250 x 10 + 90 x 15	Angle Bar
93	250 x 10 + 90 x 15	Angle Bar
94	250 x 10 + 90 x 15	Angle Bar
95	250 x 10 + 90 x 15	Angle Bar
96	250 x 10 + 90 x 15	Angle Bar
97	250 x 10 + 90 x 15	Angle Bar
98	250 x 10 + 90 x 15	Angle Bar
99	250 x 12 + 90 x 16	Angle Bar
100	250 x 12 + 90 x 16	Angle Bar
101	300 x 11 + 90 x 16	Angle Bar
102	300 x 11 + 90 x 16	Angle Bar
103	300 x 11 + 90 x 16	Angle Bar
104	300 x 11 + 90 x 16	Angle Bar
105	300 x 12 + 90 x 17	Angle Bar
106	300 x 12 + 90 x 17	Angle Bar
107	350 x 11 + 100 x 17	Angle Bar
108	350 x 11 + 100 x 17	Angle Bar
109	350 x 11 + 100 x 17	Angle Bar
110	250 x 10 + 90 x 15	Angle Bar
111	400 x 11.5 + 100 x 16	Angle Bar
112	400 x 11.5 + 100 x 16	Angle Bar
113	400 x 11.5 + 100 x 16	Angle Bar
114	400 x 11.5 + 100 x 16	Angle Bar
115	250 x 10 + 90 x 15	Angle Bar

116	350 x 12 + 100 x 17	Angle Bar
117	350 x 12 + 100 x 17	Angle Bar
118	350 x 12 + 100 x 17	Angle Bar
119	350 x 12 + 100 x 17	Angle Bar
120	350 x 12 + 100 x 17	Angle Bar
121	350 x 12 + 100 x 17	Angle Bar
122	350 x 12 + 100 x 17	Angle Bar
123	350 x 12 + 100 x 17	Angle Bar
124	350 x 12 + 100 x 17	Angle Bar
125	350 x 12 + 100 x 17	Angle Bar
126	350 x 12 + 100 x 17	Angle Bar
127	350 x 12 + 100 x 17	Angle Bar
128	350 x 12 + 100 x 17	Angle Bar
129	350 x 12 + 100 x 17	Angle Bar
130	350 x 12 + 100 x 17	Angle Bar
131	350 x 12 + 100 x 17	Angle Bar
132	150 x 9 + 90 x 9	Angle Bar
133	150 x 9 + 90 x 9	Angle Bar
134	150 x 9 + 90 x 9	Angle Bar
135	150 x 9 + 90 x 9	Angle Bar
136	150 x 9 + 90 x 9	Angle Bar
137	150 x 9 + 90 x 9	Angle Bar
138	150 x 9 + 90 x 9	Angle Bar
139	150 x 9 + 90 x 9	Angle Bar
140	150 x 9 + 90 x 9	Angle Bar
141	150 x 9 + 90 x 9	Angle Bar