

Block Erection Sequence Plan

Free PM Templates & Documents for Shipyard Newbuild Projects · Illustrative erection philosophy & block sequence for a newbuild hull

Project / Vessel Name	[Enter vessel name / hull no.]
Shipyard	[Enter yard name]
Dock / Berth No.	[Enter building dock or berth]
Prepared By / Date	[Name] / [Date]

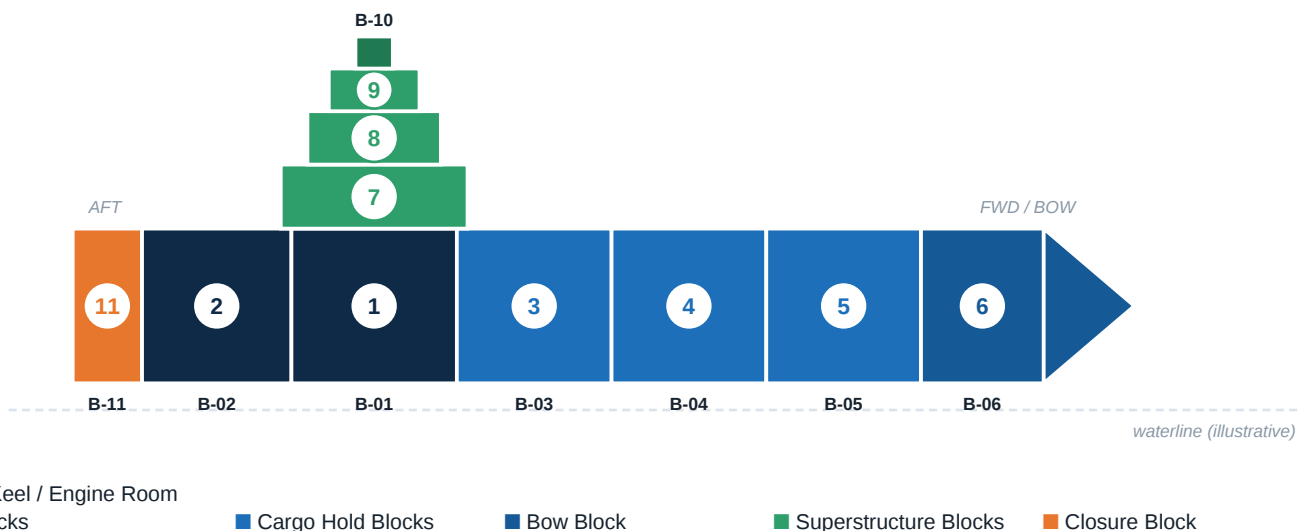
1. Purpose & Scope

This plan defines the planned sequence, weights and crane requirements for erecting the pre-fabricated hull and superstructure blocks on the building berth. It is a working template — replace the block breakdown, weights and dates with the actual production design for your vessel before use on site.

2. Erection Philosophy

Erection starts at the engine room block over the keel blocks, which sets the reference datum for all subsequent alignment and fairing checks. Construction then proceeds both forward and aft from this reference block, minimizing accumulated dimensional error. Superstructure blocks are stacked once the hull blocks beneath them are structurally closed and aligned. Blocks are pre-outfitted (piping, cabling, insulation, and where practical machinery foundations) to the maximum extent practical before lift, since access and productivity are significantly better at the pre-erection stage than at height on the berth. The stern transom closure block is fitted last, once final hull length and aft alignment are confirmed.

3. Block Breakdown Diagram (Side Profile)



4. Erection Sequence Table

Seq .	Block ID	Zone / Description	Wt (t)	Pre-Erecti on Outfitting	Wk	Dependency	Crane / Lift
1	B-01	Engine Room Block (over keel blocks — reference datum)	145	75%	1	Keel blocks set & surveyed	Goliath 300t
2	B-02	Aft Peak / Stern Block	70	60%	2	B-01	Goliath 300t
3	B-03	Cargo Hold Block — aft of midship	110	55%	3	B-01	Goliath 300t
4	B-04	Cargo Hold Block — forward of midship	105	55%	4	B-03	Goliath 300t
5	B-05	Forward Cargo Hold Block	95	55%	5	B-04	Goliath 300t
6	B-06	Bow Block	60	50%	6	B-05	Goliath 300t
7	B-07	Accommodation Deck 1	35	80%	7	B-01, B-02 closed & aligned	Mobile 150t
8	B-08	Accommodation Deck 2	28	85%	8	B-07	Mobile 150t
9	B-09	Wheelhouse / Bridge Block	18	85%	9	B-08	Mobile 80t
10	B-10	Funnel / Mast Block	6	90%	10	B-09	Mobile 80t
11	B-11	Transom Closure Block	40	50%	11	Final aft alignment confirmed	Goliath 300t

5. Notes

- Crane capacities and lift weights shown are illustrative — verify against your yard's actual crane load charts and each block's as-built weight (including outfitting margin) before lift planning.
- Weather windows: heavy lifts and the final bow/stern closures should be scheduled around forecast wind limits for the crane in use; keep at least one contingency day per major lift week.
- Each erection joint is a Hold Point for dimensional survey and root-gap check before welding start — see the Inspection & Test Plan template for the associated sign-off requirements.