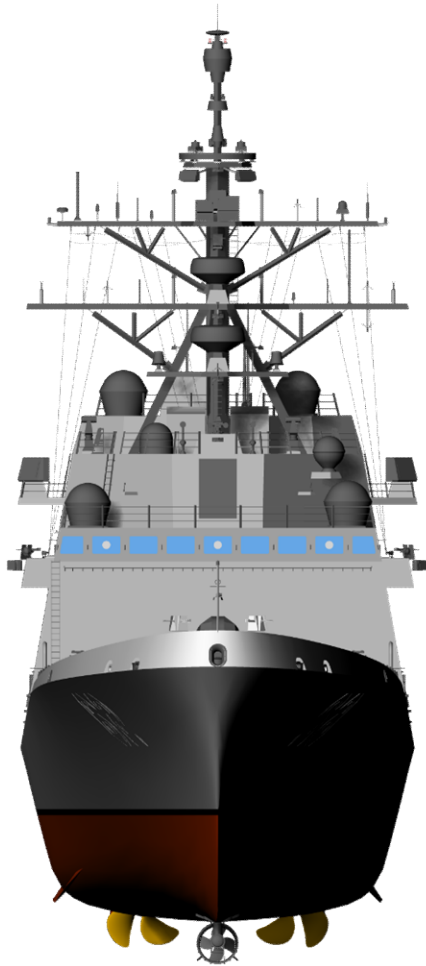




CONSTELLATION CLASS FRIGATE (FFG 62)



09 DEC 2021
FFG Overview





CONSTELLATION Class Frigate (FFG 62)



Principal Characteristics

LOA	496.1 ft
LBP	462.2 ft
Beam Overall	64.6 ft
Design Draft	18.0 ft
Installed Power	48,679 hp
Service Life	25 yrs

Accommodations

Total Accommodations	200
Officer Berthing	24
Enlisted Berthing	176

Weight Estimate

	<u>WT</u> <u>(lt)</u>	<u>KG (ft-ABL)</u>
LS Displacement	6,016	29.72
FL Displacement	7,291	26.74

Machinery and Auxiliary Systems

- CODLAG Propulsion Plant
- (1) Gas Turbine
- (2) Electric Propulsion Motors
- (4) Ship Service Diesel Generators
- (1) Auxiliary Propulsion Unit

Mission

Combat System: AEGIS B/L 10; AN/SPY-6(V)3;
AN/SQQ-89(V)16; MK 48 GWS

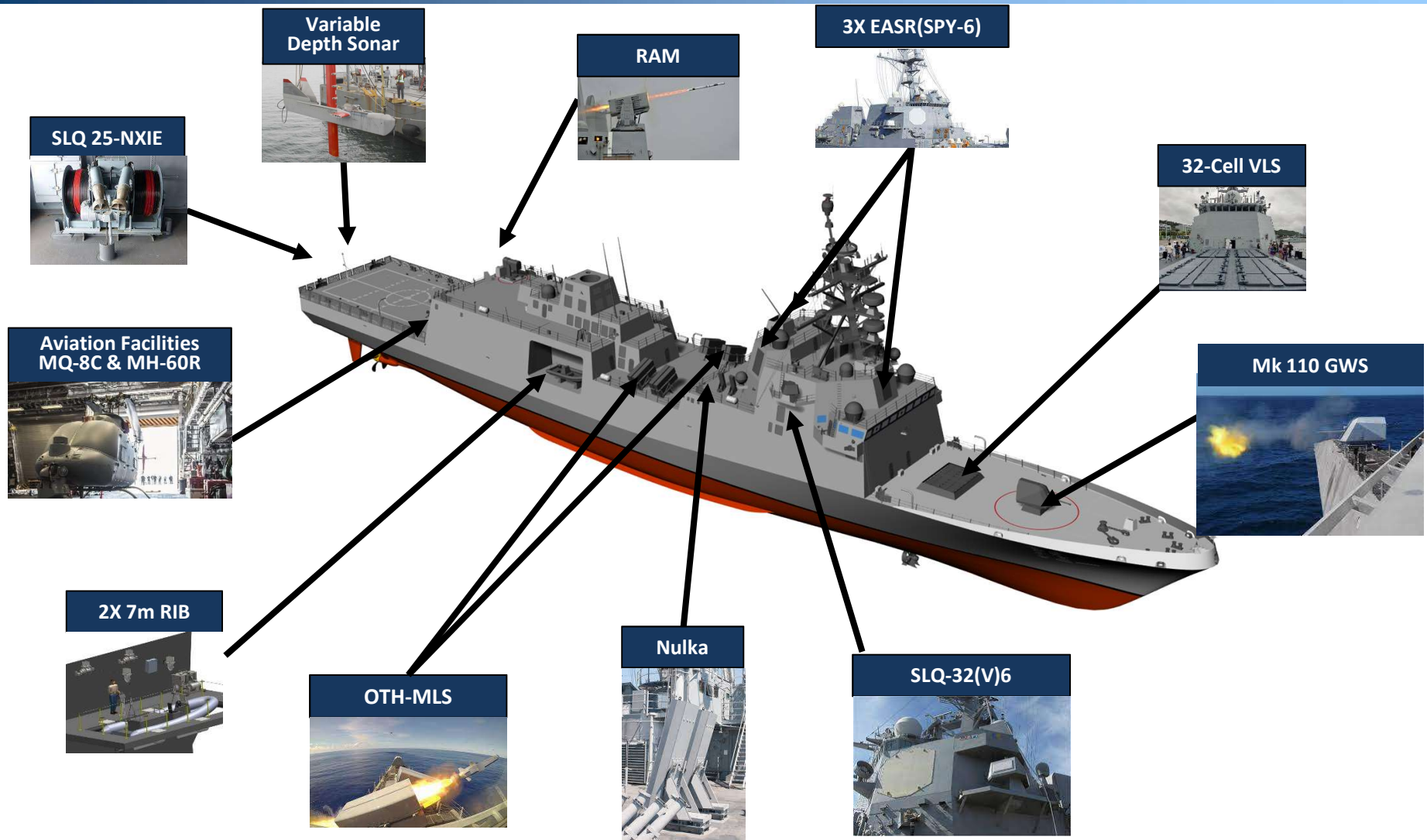
Hangar: One MH-60R, plus UAV

Armament & qty.:

- (1) MK 110 57mm Gun
- (32) MK41 VLS
- (16) NSM Weapon System
- (1) MK 49 RAM
- (4) MK 53 MOD 9 DLS
- (2) AN-SLQ-32(V)6 CM (SEWIP) BLK II



Mission Capabilities Diagram





Mission Capabilities

AW

- 3x3x3 fixed-face EASR(SPY-6)
- Mk41 VLS (32 cell)
- SM-2 Blk IIIC
- ESSM Blk 2
- 21 cell RAM launcher
- UPX-29 IFF
- CEC

EW/IO

- SLQ-32(V)6 (SEWIP Blk II) w/ HGHS and Specific Emitter Identification (SEI)
- Spectral (Follow on to SSEE Inc F)
- Nulka
- AOEW (on airborne asset)
- SWAP-C reservation for SLQ-32(V)7 (SEWIP Blk III Lite)
- SWAP-C reservation for 150kw laser

WATERCRAFT

- 7m RHIB (x2)

SUW

- 57mm gun (with ALAMO)
- Mk160 GFCSS
- Mk20 Mod 1EOSS
- OTH fire control system
- OTH Missile (16)
- 50 caliber machine guns
- iStalker w/360° coverage
- NGSSR

AVIATION

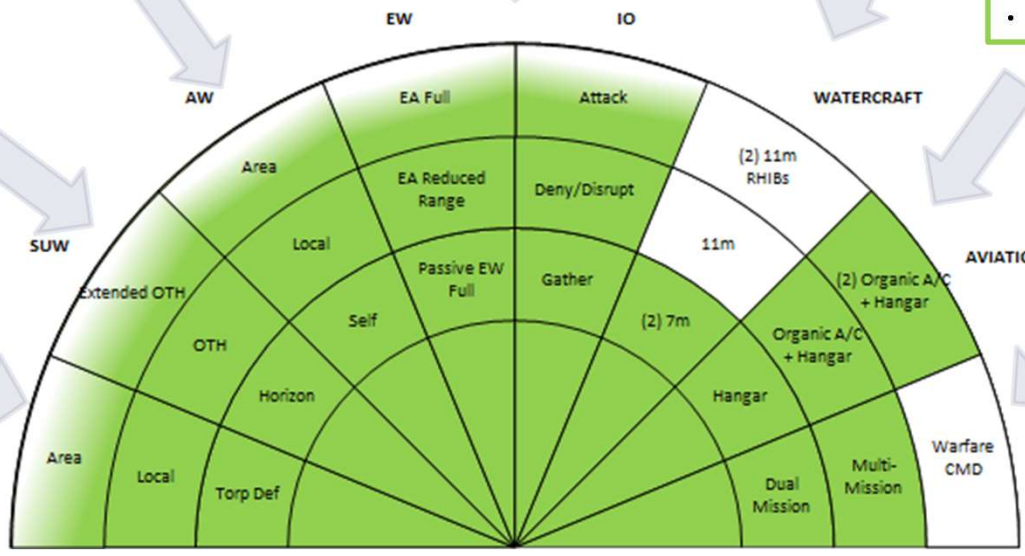
- Organic MH-60R (x1)
- Organic MQ-8C (x1)
- Mission Control System (MCS)
- Secure & Traverse Aircraft Handling System
- Horizon Reference System
- Night Vision Device Compatibility

ASW

- Variable Depth Sonar
- TB-37 MFTA w/ TACI
- AN/SQQ-89(V)16
- USW-DSS
- SLQ-25 NIXIE
- ADC (Torp CM)
- VLA for all-wx stand-off ASW weapon

C4I/CMS

- CANES
- ICOP
- Link-11/22
- Link-16
- LOS/STJ/JRE
- HF/VHF/UHF LOS
- UHF/SHF/EHF SATCOM
- NTCDL
- FFG(X) Aegis Weapon System (BL 10)
- Advanced Cyber Design
- GPNTS & ECDIS

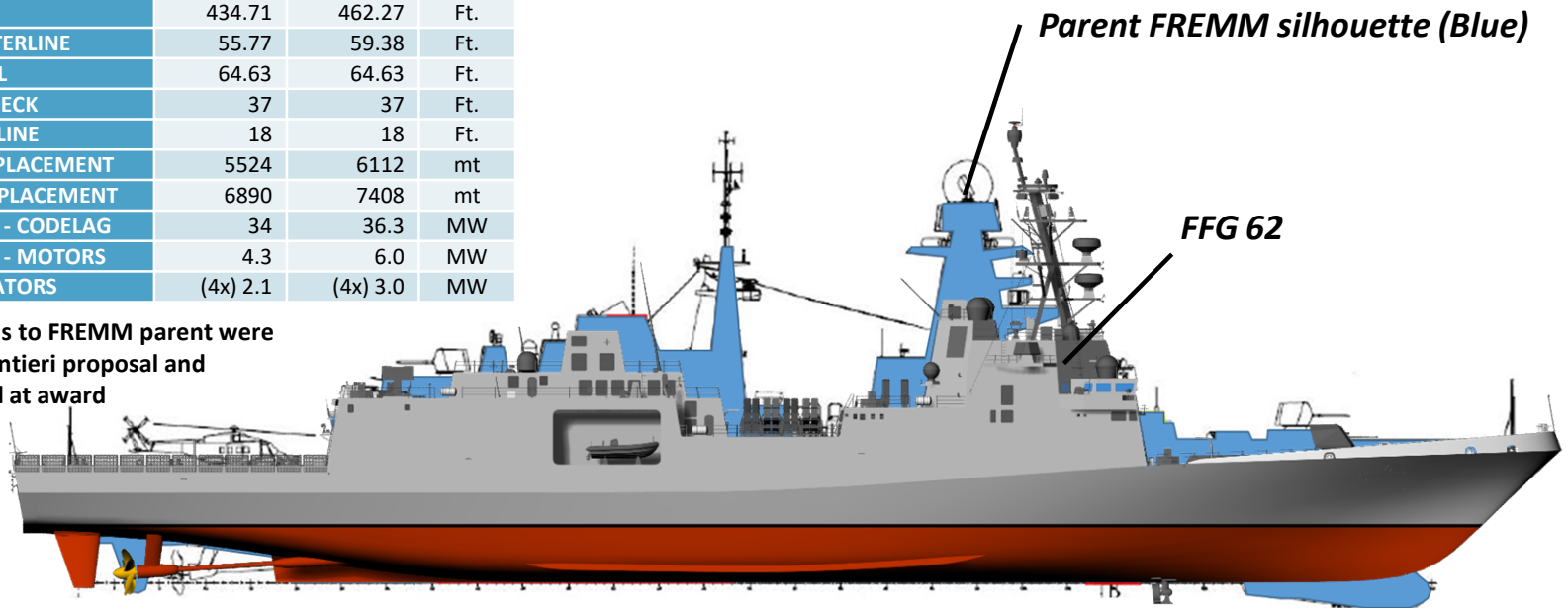




FFG 62 vs FREMM Parent

	FREMM	FFG 62	
LOA	472.44	496.06	Ft.
LBP	434.71	462.27	Ft.
BEAM ON WATERLINE	55.77	59.38	Ft.
BEAM OVERALL	64.63	64.63	Ft.
DEPTH MAIN DECK	37	37	Ft.
DRAFT WATERLINE	18	18	Ft.
LIGHTSHIP DISPLACEMENT	5524	6112	mt
FULL LOAD DISPLACEMENT	6890	7408	mt
BRAKE POWER - CODELAG	34	36.3	MW
BRAKE POWER - MOTORS	4.3	6.0	MW
DIESEL GENERATORS	(4x) 2.1	(4x) 3.0	MW

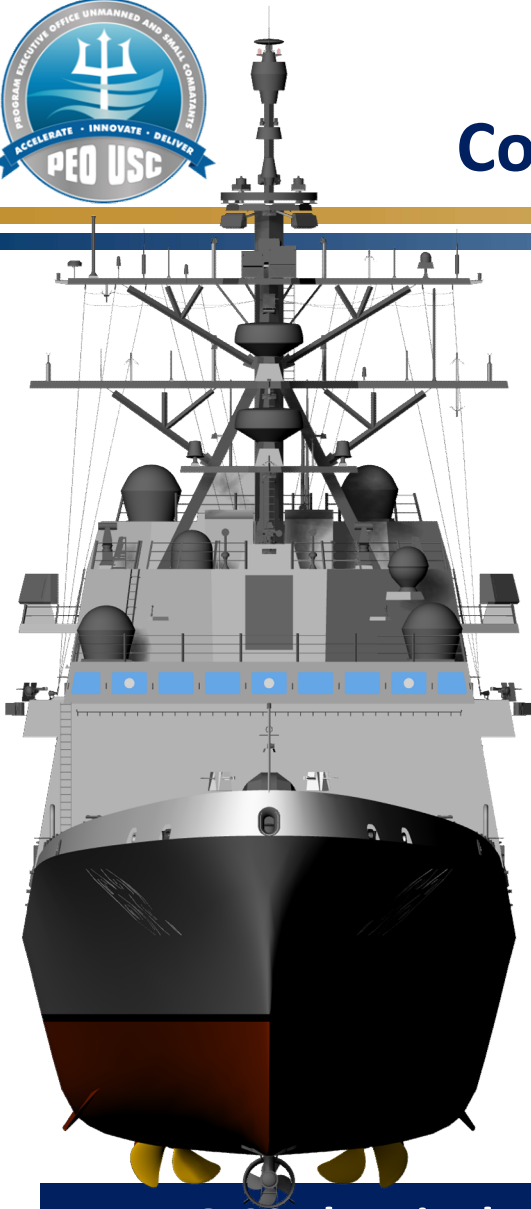
Modifications to FREMM parent were part of Fincantieri proposal and incorporated at award



- Hull lengthened 23.6 feet to accommodate larger generators and future growth
- Bow design modified to remove sonar dome and enclosure deck for stability
- Generator rating increased to 3.0 MW for 16 kt transit speed and future growth
- Propeller changed to Fixed Pitch for improved acoustic performance
- Displacement increased by ~500 tons for margins and future growth
- Topside modified to accommodate USN warfare systems
- Ship specification and equipment to US Navy combatant standards

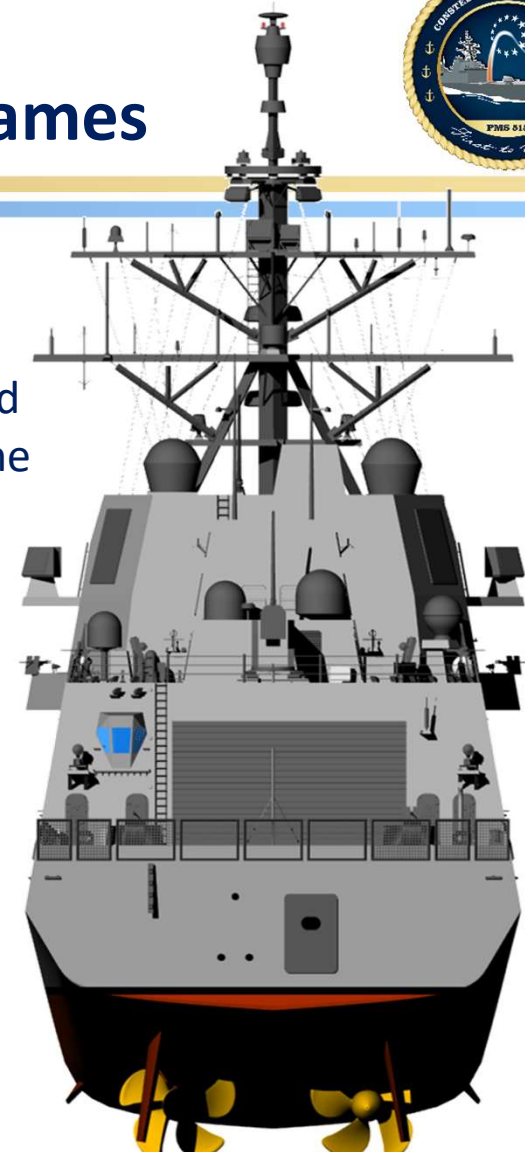


Constellation Class Ship Names



In honor of the original six heavy frigates that our great nation started to build in 1794. The Secretary of the Navy named the first three ships in the class as:

- **USS CONSTELLATION (FFG 62)**
- **USS CONGRESS (FFG 63)**
- **USS CHESAPEAKE (FFG 64)**



FFG 62 class is the continuation of a strong 200 year tradition of building frigates