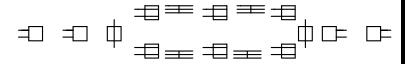
	Admiral Hipper/Prinz Eugen													
Navy Class		Deutsche Heavy cr	es Kriegsma uiser	arine		<u>Date</u>	1940							
Surface Arma Main Battery: Secondary B Torpedoes:	:	4.1 inch (•		ounts	Ranges 39 inches 16 inches 8 inches 13 inches	at 5.00"		<u>Directors</u> Fore and aft Four Cornered Port and starboard					
Gun: 8 inch triple 4.1 inch twin		5" A/10 A/13	10" 8/9 8/8	15" 6/7 2/4	20" 4/5 1/-1	25" 3/1	30" 2/0	35" 1/0	39" 1/0	Power 6 3	Relia B B			
<u>Speed</u>	4.00"	12	boilers	3 engin	es	Torpedo I	<u>Hits</u> 17.7"	-18": ±1	20.5"-22.5	5": ±2 24'	': ±3			
Flotation	Total: 63	DIV	V: 32	Sinking	: 42									

Armament Arrangement



Notes

- Admiral Hipper and Blucher in class; Prinz Eugen similar.
- Forward secondary magazine for mounts 1 and 2, aft for mounts 3-6.
- Forward fire control controls A and B; aft controls X and Y.
- Engine room 1 drives shafts 1 and 2; engine room 2 drives shaft 3.

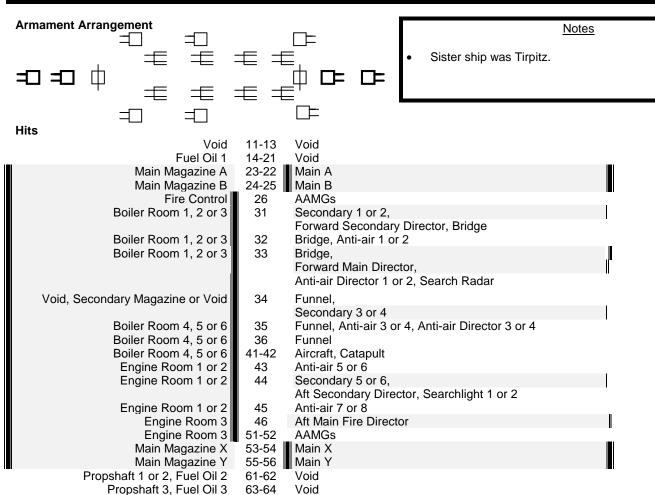
Hits

Void Fuel Oil 1	1111	2			
Main Magazine A Main Magazine B Forward Fire Control Generator Room Boiler Room 1 Boiler Room 1 Boiler Room 2 Boiler Room 2 Boiler Room 3 Boiler Room 3 Boiler Room 3 Boiler Room 1 Boiler Room 4 Boiler Room 2 Boiler Room 5 Boiler Room 6 Boiler Room 7 Boiler Room 7 Boiler Room 8 Boiler Room 8 Boiler Room 9 Boiler Room 1 Boiler Room 1 Boiler Room 1 Boiler Room 1 Boiler Room 3 Boiler Room 3 Boiler Room 1 Boiler Room 1 Boiler Room 1 Boiler Room 3 Boiler Room 1 Boiler Room 1 Boiler Room 1 Boiler Room 2 Boiler Room 3 Boiler Room 3 Boiler Room 3 Boiler Room 4 Torpedo 1 or 2 Catapult, Aircraft Catapult, Aircraft Catapult, Aircraft, Secondary 3 or 4 Torpedo 3 or 4, Secondary Director 3 or 4, Searchlight X Torpedo 3 or 4, AAMGs Secondary 5 or 6 Aft Main Director Aft Secondary Magazine, Aft Fire Control Engine Room 2 Main Magazine Y Fuel Oil 3, Propshaft 1 or 2 Steering, Propshaft 3 Bridge, AAMGs Bridge, Secondary 1 or 2 Bridge, Forward Main Director, Secondary Director 1 or 2, Torpedo 1 or 2 Torpedo 1 or 2 Torpedo 3 or 4 Catapult, Aircraft Catapult, Aircraft Secondary 5 or 6 Aft Main Director AAMGs Main X Main Magazine Y Fuel Oil 3, Propshaft 1 or 2 Steering, Propshaft 3 Steering	;				
Main Magazine B Forward Fire Control Generator Room Boiler Room 1 Boiler Room 1 Boiler Room 2 Boiler Room 2 Boiler Room 3 Boiler Room 3 Boiler Room 3 Boiler Room 1 Boiler Room 4 Boiler Room 5 Boiler Room 6 Boiler Room 7 Boiler Room 7 Boiler Room 1 Boiler Room 1 Boiler Room 1 Boiler Room 3 Boiler Room 3 Boiler Room 3 Boiler Room 1 Boiler Room 1 Boiler Room 1 Boiler Room 2 Boiler Room 3 Boiler Room 3 Boiler Room 1 Boiler Room 1 Boiler Room 1 Boiler Room 2 Boiler Room 3 Boiler Room 3 Boiler Room 1 Boiler Room 1 Boiler Room 2 Boiler Room 3 Boiler Room 4 Boiler Room 5 Boiler Room 5 Boiler Room 6 Boiler Room 7 Boiler Room 7 Boiler Room 8 Boiler Room 9 Boiler					
Forward Fire Control Generator Room Boiler Room 1 Boiler Room 1 Boiler Room 1 Boiler Room 1 Boiler Room 2 Boiler Room 2 Boiler Room 2 Boiler Room 3 Boiler Room 4 Boiler Room 5 Boiler Room 6 Boiler Room 7 Boiler Room 7 Boiler Room 1 Boiler Room 2 Boiler Room 1 Boiler Room 3 Boiler Room 3 Boiler Room 3 Boiler Room 4 Boiler Room 4 Boiler Room 5 Boiler Room 5 Boiler Room 6 Boiler Room 7 Boiler Room 7 Boiler Room 8 Boiler Room 8 Boiler Room 9 Boiler Room 9 Boiler Room 9 Boiler Room 9 Boiler Room 1 Boiler Room 9 Boiler R					
Generator Room Boiler Room 1 Boiler Room 2 Boiler Room 2 Boiler Room 2 Boiler Room 2 Boiler Room 3 Boiler Room 1 Boiler Room 4 Boiler Room 5 Boiler Room 1 Boiler Room 1 Boiler Room 1 Boiler Room 3 Boiler Room 3 Boiler Room 1 Boiler Room 3 Boiler Room 3 Boiler Room 3 Boiler Room 4 Boiler Room 4 Boiler Room 5 Boiler Room 5 Boiler Room 6 Boiler Room 7 Boiler Room 7 Boiler Room 7 Boiler Room 7 Boiler Room 8 Boiler Room 8 Boiler Room 9 Boiler Room 9 Boiler Room 9 Boiler Room 1 Boiler Room 9 B		Main Magazine B	22-24		
Boiler Room 1 Boiler Room 1 Boiler Room 1 Boiler Room 1 Boiler Room 2 Boiler Room 2 Boiler Room 2 Boiler Room 2 Boiler Room 3 Boiler Room 1 Boiler Room 3 Boiler Room 3 Boiler Room 1 Boiler Room 3 Boiler Room 3 Boiler Room 1 Boiler Room 3 Boiler Room 3 Boiler Room 3 Boiler Room 4 Boiler Room 3 Boiler Room 3 Boiler Room 4 Boiler Room 3 Bo		Forward Fire Control	25	Bridge, AAMGs	
Forward Main Director, Secondary Director 1 or 2, Torpedo 1 or 2 Boiler Room 2 Boiler Room 2 Boiler Room 2 Boiler Room 3 Boiler Room 3 Boiler Room 3 Boiler Room 3 Boiler Room 1 Engine Room 1 Aft Secondary Magazine, Aft Fire Control Engine Room 2 Main Magazine X Main Magazine Y Fuel Oil 3, Propshaft 1 or 2 Steering, Propshaft 3 Boiler Room 1 Boiler Room 2 Boiler Room 2 Boiler Room 2 Boiler Room 3 Catapult, Aircraft Catapult, Aircraft, Secondary 3 or 4 Catapult, Aircraft, Secondary Director 3 or 4, Searchlight X Torpedo 3 or 4, Secondary Director 3 or 4, Searchlight X Torpedo 3 or 4, AAMGs Secondary 5 or 6 Aft Main Director Forward Main Director, Secondary Director 1 Aft Searchlight 1 or 2 Searchlight X Torpedo 3 or 4, AAMGs Secondary Director 3 or 4 Searchlight X Torpedo 3 or 4, AAMGs Secondary Director 3 or 4 Searchlight X Torpedo 3 or 4, AAMGs Main Director Fundamental Boiler Room 1 Aft Secondary Magazine X Main Magazine X Main Magazine X Main Magazine X Main Magazine Y Secondary Sor 6 Aft Main Director Forward Main Director 1 Add Funnel Searchlight 1 or 2 Searchlight X Torpedo 3 or 4, AAMGs Add Secondary 5 or 6 Aft Main Director Fundamental Boiler Room 1 Aft Secondary Magazine A Secondary 5 or 6 Aft Main Director Fundamental Boiler Room 1 Add Secondary Magazine A Secondary 5 or 6 Aft Main Director		Generator Room	26	Bridge, Secondary 1 or 2	
Boiler Room 1 Boiler Room 2 Boiler Room 3 Boiler Room 1 Engine Room 1 Engine Room 1 Aft Secondary Magazine, Aft Fire Control Engine Room 2 Main Magazine X Main Magazine Y Fuel Oil 3, Propshaft 1 or 2 Steering, Propshaft 3 Or 2, Torpedo 1 or 2 32 Torpedo 1 or 2 33 Funnel Searchlight 1 or 2 41 Catapult, Aircraft, Secondary 3 or 4 Catapult, Aircraft, Secondary 3 or 4 Torpedo 3 or 4, Secondary Director 3 or 4, Searchlight X Torpedo 3 or 4, AAMGs Secondary 5 or 6 45 Aft Main Director AAMGs Main X Main Magazine Y Fuel Oil 3, Propshaft 1 or 2 Steering, Propshaft 3		Boiler Room 1	31		
Boiler Room 1 Boiler Room 2 Boiler Room 2 Boiler Room 2 Boiler Room 2 Boiler Room 3 Boiler Room 1 Boiler Room 1 Boiler Room 1 Boiler Room 3 Boiler Room 3 Boiler Room 1 Boiler Room 1 Boiler Room 3 Boiler Room 4 Boiler Room 4 Boiler Room 5 Boiler Room 5 Boiler Room 4 Boiler Room 5 Bo				-	
Boiler Room 2 Boiler Room 3 Boiler Room 4 Boiler Room 5 Boiler Room 1 Boiler Room 1 Boiler Room 1 Boiler Room 3 Boiler Room 4 Boiler Room 4 Boiler Room 4 Boiler Room 5 Boiler Room 5 Boiler Room 3 Boiler Room 4 Boiler Room 4 Boiler Room 5 Boiler Room 5 Boiler Room 4 Boiler Room 5 Boiler Room 4 Boiler Room 5 Boiler Room 5 Boiler Room 5 Boiler Room 4 Boiler Room 5 Bo		Boiler Room 1	32	· · · · · · · · · · · · · · · · · · ·	
Boiler Room 2 Forward Secondary Magazine Boiler Room 3 Boiler Room 4 Boiler Room 5 Boiler Room 5 Boiler Room 6 Boiler Room 7 Boiler Room 7 Boiler Room 8 Boiler Room 8 Boiler Room 8 Boiler Room 9 Boi					
Forward Secondary Magazine Boiler Room 3 Boiler Room 1 Engine Room 1 Engine Room 1 Engine Room 1 Aft Secondary Magazine, Aft Fire Control Engine Room 2 Main Magazine X Main Magazine Y Fuel Oil 3, Propshaft 3 Searchlight X Torpedo 3 or 4, AAMGs Secondary 5 or 6 Aft Main Director AAMGS Main X Main Magazine Y Fuel Oil 3, Propshaft 1 or 2 Steering, Propshaft 3 Searchlight X Adam Gs Main X Main Y Searchlight X Adam S AAMGS Main X Main Y Searchlight X Adam S AAMGS Main X Main Y Searchlight X Adam S AAMGS Main X Main Y Searchlight X Secondary 5 or 6 Aft Main Director					
Boiler Room 3 Boiler Room 4 Boiler Room 3 Boiler Room 4 Boile Room 4				,	
Boiler Room 3 Engine Room 1 Aft Secondary Magazine, Aft Fire Control Engine Room 2 Main Magazine X Main Magazine Y Fuel Oil 3, Propshaft 1 or 2 Steering, Propshaft 3 At Catapult, Aircraft, Secondary 3 or 4 Torpedo 3 or 4, AAMGs Secondary 5 or 6 Aft Main Director AAMGS Main X Main Y Fuel Oil 3, Propshaft 3 AAMGS Main Y Secondary Director 3 or 4, AAMGS Admin Director AAMGS Main X Main Y Secondary Director 3 or 4, AAMGS Admin Director AAMGS Main X Main Y Secondary 5 or 6 Aft Main Director				· ·	
Engine Room 1 42 Torpedo 3 or 4, Secondary Director 3 or 4, Searchlight X Engine Room 1 43 Torpedo 3 or 4, AAMGs Engine Room 1 44 Secondary 5 or 6 Aft Secondary Magazine, Aft Fire Control Engine Room 2 51-53 AAMGs Main Magazine X Main Magazine Y 56-62 Main X Fuel Oil 3, Propshaft 1 or 2 Steering, Propshaft 3 65 Steering				• *	
Searchlight X Engine Room 1 Engine Room 1 Aft Secondary Magazine, Aft Fire Control Engine Room 2 Engine Room 2 Searchlight X 43 Torpedo 3 or 4, AAMGs 44 Secondary 5 or 6 45 Aft Main Director 51-53 AAMGs Main Magazine X Main Magazine Y Main Magazine Y Fuel Oil 3, Propshaft 1 or 2 Steering, Propshaft 3 Searchlight X 43 Torpedo 3 or 4, AAMGs Aft Main Director 45 Aft Main Director 66-62 Main X Main Y Fuel Oil 3, Propshaft 1 or 2 Steering, Propshaft 3					
Engine Room 1 Engine Room 1 Engine Room 1 Aft Secondary Magazine, Aft Fire Control Engine Room 2 Engine Room 2 Engine Room 2 Steering, Propshaft 3 Aft Secondary 5 or 6 Aft Main Director AAMGs AAMGs Main Magazine X S4-55 Main X Main Magazine Y G3-64 Void Steering AAMGs Main X Main Y Fuel Oil 3, Propshaft 1 or 2 Steering, Propshaft 3 AAMGs Main X Main Y Steering		_nge rtee r			
Aft Secondary Magazine, Aft Fire Control Engine Room 2 51-53 AAMGs Main Magazine X 54-55 Main X Main Magazine Y 56-62 Main Y Fuel Oil 3, Propshaft 1 or 2 63-64 Void Steering, Propshaft 3 65 Steering		Engine Room 1	43	· · · · · · · · · · · · · · · · · · ·	
Control Engine Room 2 51-53 AAMGs Main Magazine X 54-55 Main X Main Magazine Y 56-62 Main Y Fuel Oil 3, Propshaft 1 or 2 63-64 Void Steering, Propshaft 3 65 Steering		Engine Room 1	44	Secondary 5 or 6	
Engine Room 2 51-53 AAMGs Main Magazine X 54-55 Main X Main Magazine Y 56-62 Main Y Fuel Oil 3, Propshaft 1 or 2 63-64 Void Steering, Propshaft 3 65 Steering		Aft Secondary Magazine, Aft Fire	45	Aft Main Director	
Main Magazine X 54-55 Main X Main Magazine Y 56-62 Main Y Fuel Oil 3, Propshaft 1 or 2 63-64 Void Steering, Propshaft 3 65 Steering		Control			
Main Magazine Y 56-62 Main Y Fuel Oil 3, Propshaft 1 or 2 63-64 Void Steering, Propshaft 3 65 Steering		Engine Room 2	51-53	AAMGs	
Fuel Oil 3, Propshaft 1 or 2 63-64 Void Steering, Propshaft 3 65 Steering		Main Magazine X	54-55	Main X	
Steering, Propshaft 3 65 Steering			56-62	Main Y	
				Void	
Void 66 Void		Steering, Propshaft 3	65	Steering	
		Void	66	Void	

Internal Diagram

				GR	BR1	BR2		BR3		AFC	ER1	ER2					
V1	FO1	PM	PM	FFC	B1,2	B5,6	SM1	B9	B11	SM2	E1	E3	PM	PM	FO3	ST	V2
1FP	2FP	Α	В	2FP	B3,4	B7,8	1FP	B10	B12	1FP	E2	5FP	Χ	Υ	2FP	1FP	0FP
		2FP	2FP		10FP	10FP		10FP			10FP		2FP	2FP			1

Bismarck													
Navy Class		Deutsche Battleshi	es Kreigsma p	arine		<u>Date</u>	1941						
Surface Armament Main Battery: Secondary Battery: Anti-air Battery 15 inch guns in 4 twin turrets 5.9 inch guns in 6 twin turrets 4.1 inch guns in 8 twin mounts						Ranges 39 inches 24 inches 16 inches		F F	<u>Directors</u> Fore and aft Fore and aft Four corners				
Gun: 11 inch trip 5.9 inch tw 4.1 inch tw	in	5" A/9 A/13 A/13	10" 8/9 8/11 8/8	15" 6/9 3/7 2/4	20" 5/8 2/5 1/-1	25" 4/7 1/2	30" 3/5	35" 2/4	39" 1/2	Power 7 5 3	Relia B B B		
Speed Flotation	3.50" Total: 75		boilers W: 37	3 engin Sinking		Torpedo Hit		'-18": 50% r torpedo hi	20.5"-22.5' ts in way of 2		": ±2		



Internal Diagram

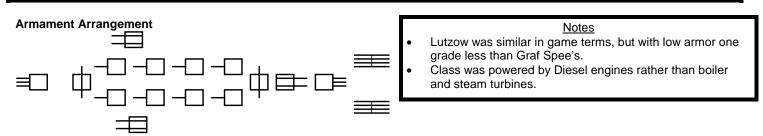
						BK1	V	BR4	ER1						
Ī						4FP	1FP	4FP	E1	ER3					
	V1	FO1	PM	PM	FC	BR2	SM	BR5	10FP	E3	PM	PM	FO2	FO3	ST
	1FP	2FP	Α	В	2FP	4FP	1FP	4FP	ER2	10FP	Χ	Υ	2FP	2FP	1FP
			2FP	2FP		BR3	V	BR6	E2		2FP	2FP			
-						4FP	1FP	4FP	10FP						

Steering

65-66

Steering

Graf Spee														
<u>Navy</u> <u>Class</u>	Deutsches Kriegsm Armored ship	arine	<u>Date</u>	1939										
Surface Armament Main Battery: Secondary Battery: Anti-air Battery: Torpedo Battery: Maximum Value:	11 inch guns in 2 tri 5.9 inch guns in 8 s 4.1 inch guns in 3 tv 21 inch torpedoes in 6 before 1/43, 9 afte	ingle mounts vin mounts n 2 quadruple mounts	Ranges 40 inches 24 inches 16 inches 8 inches at 5 13 inches at		<u>Directors</u> Fore and aft Fore and aft Fore and aft Aft									
Gun: 11 inch triple 5.9 inch single 4.1 inch twin	5" 10" A/9 8/9 A/10 8/8 A/13 8/8	15" 20" 6/9 5/8 3/5 2/3 2/4 1/-1	25" 4/7 1/0	30" 35" 3/5 2/4	-	Power 7 5 3	Relia B B B							
<u>Speed</u> 3.25"		8 engines	Torpedo Hits	<u>s</u> 17.7"-18" ±1	20.5"-22.5"	': ±2 24'	': ±3							
Flotation Total: 64	4 DIW: 32	Sinking: 42												



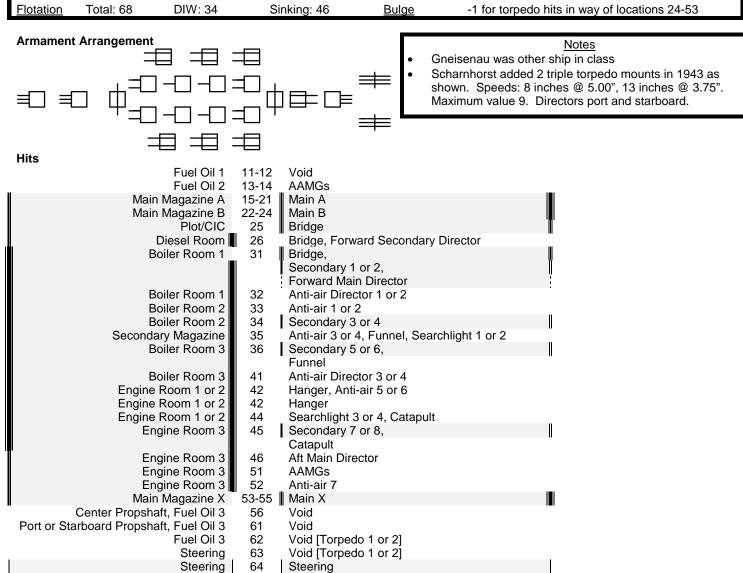
Hits

11113				
	Fuel Oil 1	11-12	Void	
	Fuel Oil 2	13-14	AAMGs	
	Main Magazine A	15-23	Main A	
	Fire Control/CIC	24	Bridge, Forward Secondary Director	
	Fire Control/CIC	25	Bridge, AAMGs	
	Engine Room 1 or 2	26	Bridge,	
			Foward Main Director	
	Engine Room 1 or 2	31	Secondary 1 or 2	
	Engine Room 1 or 2	32	Secondary 3 or 4	
	Engine Room 1 or 2	33	Anti-air 1 or 2	
	Engine Room 1 or 2	34	Searchlight 1 or 2 [Searhlight A]	
	Secondary Magazine	35	Funnel	
	Secondary Magazine	36	Funnel, Anti-air 1 or 2	
	Engine Room 3 or 4	41	Secondary 5 or 6,	
			Catapult	
	Engine Room 3 or 4	42	Catapult, Aircraft,	
			Secondary 7 or 8	
	Engine Room 3 or 4	43	AAMGs, Aft Main Director	
	Engine Room 3 or 4	44	Void	
	Engine Room 3 or 4	45	Anti-air X	
	Main Magazine Y	46-55	Main Y	
	Fuel Oil 3	56-61	Void	
	Propshaft 1 or 2, Fuel Oil 4	62-64	Torpedo 1 or 2	
	Steering	65	Steering	
	Void	66	Void	

Internal Diagram

FO1	FO2	FM	FCS	ER1	E1		ER3	E5	AM	FO3	FO4	ST	V
1FP	2FP	Α	Plot	12FP	E2	SM	12FP	E6	Υ	2FP	2FP	2FP	0FP
		2FP	1FP	ER2	E3	2FP	ER4	E7	2FP				
				12FP	E4		12FP	E8					

					Scha	rnhorst							
Navy		Deutsche	es Kriegsma	arine		Date	1941						
Class		Battleshi	р										
Surface Ar	<u>mament</u>					<u>Ranges</u>		<u>]</u>	<u>Directors</u>				
Main Batte	ry:	11 inch g	juns in 3 trip	ole turrets		45 inches	45 inches Fore and aft						
Secondary Battery: Anti-air Battery		5.9 inch mounts	guns in 4 tw	in and 4 sir	ngle	24 inches		F	Fore and aft				
Anti-air Battery		4.1 inch	guns in 7 tw	in mounts		16 inches		F	our-corne	red			
Gun:		5"	10"	15"	20"	25"	30"	35"	45"	Power	Relia		
11 inch trip		A/9	8/9	6/9	5/8	4/7	3/5	2/4	1/2	7	В		
5.9 inch sir	ngle	A/10	8/8	3/5	2/3	1/0				5	В		
5.9 inch tw	in	A/13	8/11	3/7	2/5	1/2				5	В		
4.1 inch tw	in	A/13	8/8	2/4	1/-1					3	В		
<u>Speed</u>	3.75"	12	boilers	3 engin	es	Torpedo Hi	<u>ts</u> 17.7"	'-18": 50%	20.5"-22.	5": ±0 24	": ±1		
Flotation	Total: 68	DI\	N: 34	Sinking	: 46	<u>Bulge</u>	-1 for	r torpedo hit	s in way of	locations 24	l-53		



Internal Diagram

Fuel Oil 4

65-66

FO1 1FP	FO2 2FP	FM A	FM B	FCS Plot	DR	BR1 B1-4	BR2 B5-8	SM	BR3 B9-	ER1 12FP	E1	ER3 E3	AM Y	FO3 3FP	ST 1FP	FO4 2FP
		2FP	2FP	1FP	6FP	6FP	6FP	2FP	12 6FP	ER2 12FP	E2	12FP	2FP			

AAMGs