



# WWI Imperial German Navy Ship Data List

Ship Class	Body Type	Inches of Class 'A' (vertical/ horizontal) armor															
		Tur Front	Tur Side	Tur Rear	Tur Top	Barbette	Belt Eng	Belt Mag	Belt Ends	Uppr Belt	2 <sup>nd</sup> Battr	Deck Eng	Deck Mag	Low Belt	AB f,a	CT f,a	FCD f, c,a
Nassau	B	10	8	10	2/3½	10	11^15	11^15	3	6	6 1	1^2½	1^3	½^2	7	12,7	
Hegoland	B	11	9	11	2½/3½	11	11^15	11^15	3	4½	6 1	1^2½	1^3	½^2	8	11,6	
Kaiser	B	11	9	11	3/4	11	13^18	13^18	3/0	7	6 1	1^3½	1^4½	¼^3	11	13,7	
König	B	11	9	11	3/4	11	13^18	13^18	3/0	7	6 1	1^3½	½^4½	¼^3	11	13,7	
Bayern	B	13	9	11	3½/7	13	13^16	13^16	3½/0	9	6 1	1½^2½	1½^3	¼^4	11	13,6	
Von Der Tann	B	9	7	9	2/3½	9	9^12	9^12	3½	8	6 1	½^2½	½^3½	¼^2	4,7	9,7	
Moltke	B	9	7	9	2/3½	9	10^12	10^12	4	7	6 1	1^3	1^3	¼^3	7	13,7	
Seydlitz	B	9	7	8	2½/3½	9	11^14	11^14	3½	7	6 1	1^2	1^4	¼^3	6	13,7	
Derfflinger	B	10	8	10	3/4	10	11^13	11^13	3½	6	6 2	1^2/3	1^3½	¼^3	9	11,7	
Blücher	B	7	5	6	2/2½	7	7^9	7^9	4	5	5 ½	½^2½	½^3½	¼^3	6	9,3½	
Scharnhorst	B	6	5	5	1	6	5^7	5^7	4	4	5 ½	½^2	½^3	¼^3	3½	7,5	
Roon	B	6	4	4	1	3½	3½^5	3½^5	3	3	4 ½	½^2	½^3	¼^3	3	5,3	
Königsberg	S	2	-	-	-	1	1	1	-	-	-	¼^1	¼^1	¼^1	1	3½	
Emden	S	2	-	-	-	1	1	1	-	-	-	¼^1	¼^1	¼^1	1	3½	
Kolberg	S	2	-	-	-	1	1	1	-	-	-	¼^1½	¼^1	¼^1	1	3½	
Magdeburg	S	2	-	-	-	1	2^5	2^5	½	½	-	¼^1½	¼^2½	¼^1	1½	4	
Pillau	S	2	-	-	-	1	2^3	2^3	½	½	-	¼^1/3	¼^3	¼^1	1½	3,2	
Bremen	S	2	-	-	-	1	½^1½	½^3½				¼^1½	¼^2	¼^1	1½	3,2	

Key:

1/2= Two possible values for this armor, each with a 50/50 chance of occurring.

1^2= Two layers of armor. Roll once for penetration. If resulting penetration equals or surpasses 1 then full damage happens. If it only equals or surpasses 2 then nominal damage is imparted.

f, a= forward, or aft conning tower

f, c, t= forward main fire control, second fire control, aft or torpedo fire control director.

Up Belt A,(B)= A is the upper belt armor, B is the funnel Uptake armor for Upper Belt hits. When only (B) appears A is 0.

Ship Class	Imperial Germ an Navy Capital Ship Data																		
	Main	ROF	Secondary	ROF	Tertiary	ROF	High AA	ROF	Torpedo	Protection			Director	Rng Fndr	Planes	Hulls	Engines	Speed	Size
										Flash	UW	DC							
Nassau	11.1 "/ 45 (6x2)	1.25	5.9 " / 45 (12)	1.75	88mm / 45 (16)	2.75			45cm(6)	2	0	4	C	+0S		9	4	14	3
Hegoland	12 " / 50(6x2)	1.25	5.9 " / 45 (14)	1.75	88mm / 45 (14)	2.75			60cm(6)	2	1	4	C	+0S		12	4	15	4
Kaiser	12 " / 50(5x2)	1.25	5.9 " / 45 (14)	1.75	88mm / 45 (8)	2.75	88m m(4):4	2.75	60cm(5)	3	2	4	C	+1S		13	4	16	4
König	12 " / 50(5x2)	1.25	5.9 " / 45 (14)	1.75	88mm / 45 (8)	2.75	88m m(4):4	2.75	60cm(5)	3	2	4	R	+1S		14	4	15	4
Bayern	15 " / 45(4x2)	1	5.9 " / 45 (16)	1.75	88m m / 45 (8):4	2.75			60cm(5)	3	2	4	R	+1S		15	4	15	4
Von Der Tann	11.1 " / 45 (4x2)	1.25	5.9 " / 45 (10)	1.75	88mm / 45 (16)	2.75			45cm(4)	3	1	4	C	+1S		11	4	18	4
Moltke	11.1 " / 50 (5x2)	1.25	5.9 " / 45 (12)	1.75	88mm / 45 (12)	2.75			50cm(4)	3	1	4	C	+1S		12	4	19	4
Seydlitz	11.1 " / 50 (5x2)	1.25	5.9 " / 45 (12)	1.75	88mm / 45 (12)	2.75			50cm(4)	3	2	4	R	+1S		13	4	19	5
Derfflinger	12 " / 50(4x2)	1.25	5.9 " / 45 (12)	1.75	88mm / 45 (4)	2.75			50cm(4)	3	2	4	R	+1S		14	4	19	5
Lützow	12 " / 50(4x2)	1.25	5.9 " / 45 (14)	1.75					60cm(4)	3	2	4	R	+1S		14	4	19	5
Blücher	8.2 " / 45 (6x2)	1.75	5.9 " / 45 (8)	1.75	88mm / 45 (16)	2.75			45cm (4)	1		3	C			8	3	18	3
Scharnhorst	8.2 " / 40 (4x2)	1.75	5.9 " / 40 (8)	1.75	88mm / 45 (20)	2.75			45cm(4)	1		3	C			6	3	17	3
Roon	8.2 " / 40 (2x2)	1.75	5.9 " / 40 (10)	1.75	88mm / 45 (8)	2.75	88m m(4):4	2.75	45cm(3)	1		3	C			5	3	17	2
Königsberg	105mm / 40 (10)	2.75					2:4		45cm(2)			2	C			2	2	17	1
Emden	105mm / 40 (10)	2.75					2:4		45cm(2)			2	C			2	2	17	1
Kolberg	105mm / 40 (10)	2.75							45cm(2)			2	C			3	2	19	2
Magdeburg	105mm / 40 (12)	2.75							50cm(2)			2	C			3	2	20	2
Pillau	5.9 " / 45 (8) @176	2.75					88m m(2):4	2.75	50cm(2)			2	C			3	2	20	2
Bremen																			

Flashfire protection - Before 4/15 reduce protection factor by 2.

Range Finder value applies to the main battery only. For secondaries the value is one less. For tertiaries it is two less.

@176 - This mount can range to 176.

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15"/45	Shell	Damage	Disp	Range 100xmetres vs Penetration in Inches of Class 'A' and Class 'B' (vertical/ <b>horizontal</b> ) armor																									
Max 23,200				27	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12	11	10	9	8						
Up to range	AP	3	N	5	7	15	24	32	41	49	59	67	77	87	99	109	122	135	149	164	185	221	232						
				-	1	1½	2	2½	3	3½	4							DAF			1	2	3	4	5	6	7		
Range over				0	50	80	111	148	189	211	228							Range over			80	107	134	158	183	212	218		

12"/50 Max 16,200 Max 20,400	Shell	Damage	Disp	Range 100xmetres vs Penetration in Inches of Class 'A' and Class 'B' (vertical/ <b>horizontal</b> ) armor																									
				21	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6										
Up to range	AP	4	N	5	15	24	33	42	51	63	73	84	95	109	123	138	156	177	204										
			N	-	½	1	1½	2	2½										DAF			1	2	3	4	5	6		
Range over					22	63	99	144	191										Range over			83	108	133	156	178	204		

11.1"/50 Max 18,000	Shell	Damage	Disp	Range 100xmetres vs Penetration in Inches of Class 'A' and Class 'B' (vertical/ <b>horizontal</b> ) armor																									
				20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5										
Up to range	AP	5	N	5	8	16	23	32	41	51	60	70	81	91	104	119	135	154	194										
				-	½	1	1½	2											DAF			1	2	3	4	5	6		
Range over				0	25	70	112	167											Range over			80	102	124	143	153	185		

11.1"/45 Max 22,000	Shell	Damage	Disp	Range 100xmetres vs Penetration in Inches of Class 'A' and Class 'B' (vertical/ <b>horizontal</b> ) armor																									
				19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4										
Up to range	AP	5	N	5	10	19	26	37	44	53	64	75	86	99	113	129	148	186	220										
				-	½	1	1½	2											DAF			1	2	3	4	5	6	7	
Range over				0	24	68	110	163											Range over			77	99	120	139	158	180	188	

11.1"/40 Max 18,800	Shell	Damage	Disp	Range 100xmetres vs Penetration in Inches of Class 'A' (vertical/ <b>horizontal</b> ) armor																									
				17	16	15	14	13	12	11	10	9	8	7	6	5	4½	4	4½										
Up to range	AP	5	N	5	9	13	21	27	33	40	47	56	64	74	85	102	124	178	188										
529,2690,4.56				-	½	1	1½	2	2½	3	3½								DAF			1	2	3	4	5	6	7	
Range over				0	27	77	120	140	153	166	178								Range over			60	75	90	103	117	133	174	

8.2"/45 Max 20,900	Shell	Damage	Disp	Range 100xmetres vs Penetration in Inches of Class 'A' (vertical/ <b>horizontal</b> ) armor																									
				13	12	11	10	9	8	7	6	5	4½	4	3½	3	2½	2	1½										
Up to range	AP	7	N	6	11	18	25	33	42	51	61	72	84	93	105	123	147	182	209										
238,2953,3.99				-	½	1	1½	2	2½	3									DAF			1	2	3	4	5	6	7	8
Range over				0	41	96	134	152	169	187									Range over			63	78	92	104	117	132	153	179

8.2"/40 Max 19,100	Shell	Damage	Disp	Range 100xmetres vs Penetration in Inches of Class 'A' (vertical/ <b>horizontal</b> ) armor																									
				11	10	9	8	7	6	5	4½	4	3½	3	2½	2	1½	1											
Up to range	AP	7	N	4	10	17	25	35	44	56	67	75	87	106	129	161	185	191											
238,2559,3.93				-	½	1	1½	2	2½	3	3½								DAF			1	2	3	4	5	6	7	8
Range over				0	31	89	122	139	154	168	184								Range over			53	66	79	90	103	118	137	161

5.9"/45 1908 13,500 1915 16,800	Shell	Damage	Disp	Range 100xmetres vs Penetration in Inches of Class 'A' (vertical/ <b>horizontal</b> ) armor																									
				8	7	6	5	4½	4	3½	3	2½	2	1½	1														
Up to range	AP	7	N	5	13	23	34	44	51	58	67	79	101	136	181														
99.8,2740,3.47				-	½	1	1½	2	2½										DAF			1	2	3	4	5	6	7	8
Range over				0	42	107	134	153	174										Range over			54	66	79	90	102	116	134	157

5.9 " /45 1908 13,500 1915 16,800	Shell	Damage	Disp	Range 100xmetres vs Penetration in Inches of Class 'A' (vertical/ <b>horizontal</b> ) armor																							
				3½	3	2½	2	1½	1																		
Up to range	HE	7	N	5	19	36	53	82	166																		
				0	¼	½	1	1½										DAF		1	2	3	4	5	6	7	8
Range over				0	7	17	97	139										Range over		54	66	79	90	102	116	134	157

5.9" /40	Shell	Damage	Disp	Range 100xmeters vs Penetration in Inches of Class 'A' (vertical/ <b>horizontal</b> ) armor																							
				3½	3	2½	2	1½	1																		
Max 13,700																											
Up to range	HE	7	N	4	14	31	50	80	137																		
88.2,2625,3.69				0	¼	½	1											DAF		1	2	3	4	5	6	7	8
Range over				0	7	18	102											Range over		53	66	78	89	101	116	135	158

105mm/45	Shell	Damage	Disp	Range 100xmetres vs Penetration in Inches of Class 'A' (vertical/ <b>horizontal</b> ) armor																					
				2½	2	1½	1	½																	
Max 12,200																									
Up to range	HE	8		4	12	31	69	122																	
38.4,2389,2.83				0	¼	½	1										DAF	1	2	3	4	5	6	7	8
Range over				0	7	20	97										Range over	41	52	62	72	82	95	111	130

105mm/40	Shell	Damage	Disp	Range 100xmeters vs Penetration in Inches of Class 'A' (vertical/ <b>horizontal</b> ) armor																					
				2½	2	1½	1	½																	
Max 12,200																									
Up to range	HE	8		3	8	27	61	122																	
35.3,2264,2.74				0	¼	½	1										DAF	1	2	3	4	5	6	7	8
Range over				0	6	20	95										Range over	43	54	66	77	88	102	120	141

88mm/40 LA 10,700 HA 11.700	Shell	Damage	Disp	Range 100xmetres vs Penetration in Inches of Class 'A' (vertical/ <b>horizontal</b> ) armor																					
				1	½	¼																			
Up to range	HE	10		17	74	117																			
2113,21.5,2.72				0	¼	½											DAF	1	2	3	4	5	6		
Range over				0	18	90											Range over	36	45	55	75	87	102		