

Ship Reference Sheet										1. Ship name De Ruyter							
2. Ship class De Ruyter		3. Ship Type CL		4. Size class B		5. Speed 32		6. Propulsion Steam Turbine		7. Crew 435		8. Total Mounts 7		9. Armor Class 8/4			
Radars (Annex G)		Range Large		Range Small		Range Vsmall		Damage Point Effects									
Name	Function							Percentage Damage									
								0%	25%	50%	75%	90%	100%				
								Damage Points	0	37	74	110	132	147			
								Surface Speed	32	24	16	8	0	Sinks			
								Acceleration Rate (% of Max Speed)	0-50%	51-100%	Deceleration Rate (Any Speed)		12kts				
							10kts		5kts								
Sonar (Annex H)		Active Range		Passive Range				Turning Distance (Hard Rudder)	200yds	Speed Loss per 45° Turn	4kts (HR)	Note: Turns greater than 45° halves acceleration rate					
Name	Type	Surf Ship	Submarine	Torpedo	Turning Distance (Standard Rudder)	300yds	3kts (SR)										
								Embarked Aircraft: (2) Fokker C XIW 1 Midships Catapult									
Guns (Annex C)		Shell Type		Short Range (7)			Med Range (5)			Long Range (2)			Extreme Range (1)			FC Radar, Strength, Rng	
Arc(bb)Mts	Name			Range	Pen	Dam/Mt	Range	Pen	Dam/Mt	Range	Pen	Dam/Mt	Range	Pen	Dam/Mt		
F/2A (2)3	Mk 9 150mm/50	AP	0-	29	7	3.3-	23	4	9.6-	5	3	16.0-	9	2			
			3.2			9.5			15.9			16.0-					
			HE	0-	4	13	3.6-	3	9	10.5-	1	8	17.5-	1	8		
			3.5			10.4			17.4			23.2					
F (1)1	Mk 10 150mm/50	AP	0-	29	7	3.3-	23	4	9.6-	5	3	16.0-	9	2			
			3.2			9.5			15.9			16.0-					
			HE	0-	4	13	3.6-	3	9	10.5-	1	8	17.5-	1	8		
			3.5			10.4			17.4			23.2					
vs. Belt Armor _____ vs. Deck Armor _____																	
Area AA Guns:		(2)3 Mk 9 150mm/50, (1)1 Mk 10 150mm /50							Area AA Range:		4.0		Area AA Strength: 0.4				
Light AA Guns:		(2)5 40mm/50, (1)5 .50 cal.									Light AA Strength: 4.4						
Anti-Submarine Warfare Systems (Annex D)																	
Arc(bb)Mts	Name	Range		PH	Dam Pts		Remarks										

Depth Change Armament:			Max Pattern Size:				Max Pattern Depth:									
DC Type:			Total DC's Carried:													
Torpedoes (Annex E)		# Torps	Speed	Dist/Tn	Range	Damage	Remarks									
Arc(bb)Mts	Torpedo Type	per mt	kts	yds	yds	Points										

Notes and Remarks:

- (1) One ship in class.
- (2) Standard displacement listed as 6450 tons.
- (3) Aluminum used in construction, -25% special damage modifier.
- (4) Single 150mm can fire starshell.

Ship Reference Sheet						1. Ship name Isaac Sweers															
2. Ship class		3. Ship Type		4. Size class		5. Speed		6. Propulsion		7. Crew		8. Total Mounts		9. Armor Class							
Tjerk Hiddes		DD		C		37		Steam Turbine		158		9		0							
Radars (Annex G)		Range		Range		Range		Damage Point Effects													
Name Function		Large		Small		Vsmall		Percentage Damage													
								0%		25%		50%		75%		90%		100%			
Type 291		SS		9		4.5		2.25		0		16		31		47		56		62	
Type 286M		SS		8		4.0		2.0		37		28		18		9		0		Sinks	
“										Acceleration Rate (% of Max Speed)		0-50%		51-100%		Deceleration Rate (Any Speed)				15kts	
“												12kts		16kts							
Sonar (Annex H)		Active Range		Passive Range																	
Name Type		Surf Ship		Submarine		Torpedo															
Type 128 ASDIC		Keel		1.1		2.0		0.5		1.0											
						</															

Ship Reference Sheet							1. Ship name Piet Hein																
2. Ship class		3. Ship Type		4. Size class		5. Speed		6. Propulsion		7. Crew		8. Total Mounts		9. Armor Class									
Van Ghent		DD		C		34		Steam Turbine		129		8		0									
Radars (Annex G)				Damage Point Effects				Percentage Damage															
Name		Function		Range Large		Range Small		Range Vsmall		0%		25%		50%		75%		90%		100%			
										Damage Points		0		13		26		40		48		53	
										Surface Speed		34		26		17		8		0		Sinks	
“										Acceleration Rate (% of Max Speed)		0-50%		51-100%		Deceleration Rate (Any Speed)		15kts					
“												12kts		16kts									
Sonar (Annex H)			Active Range			Passive Range			Note: Turns greater than 45° halves acceleration rate														
Name		Type		Range		Surf Ship		Submarine		Torpedo		Turning Distance (Hard Rudder)		200yds		Speed Loss per 45° Turn		3kts (HR)		2kts (SR)			
												Turning Distance (Standard Rudder)		300yds									
Embarked Aircraft:																							
N/A																							
Guns (Annex C)			Shell Type			Short Range (7)			Med Range (5)			Long Range (2)			Extreme Range (1)			FC Radar, Strength, Rng					
Arc(bb)Mts		Name		Range		Pen		Dam/Mt		Range		Pen		Dam/Mt		Range		Pen		Dam/Mt		Range	
F/A (1)4		Wilton-Fienoord Mk 4 LA 120mm/50		SAP		0-3.2		14 7				11 4				2 2				4 2			
				HE		4 10						3 7				1 3				1 3			
P/S (1)2		Mk 1 75mm/45		HE		0-2.0		2 5		2.1-5.9		2 4		6.0-9.8		0 2		9.9-13.0		1 2			
vs. Belt Armor											vs. Deck Armor												
Area AA Guns:			(2) Mk1 75mm/45									Area AA Range:			2.0			Area AA Strength: 0.5					
Light AA Guns:			(1)4 .50 cal									Light AA Strength: 0.3											
Anti-Submarine Warfare Systems (Annex D)																							
Arc(bb)Mts		Name		Range		PH		Dam Pts		Remarks													

Depth Change Armament:			Max Pattern Size:				Max Pattern Depth:						
DC Type:			Total DC's Carried:										
Torpedoes (Annex E)		# Torps per mt		Speed kts		Dist/Tn yds		Range yds		Damage Points		Remarks	
P&S (3)2		533mm TT w/3 Mk IX Torp.		3		41		11000					
						35		15000					

Notes and Remarks:

- Four ships in class: Evertsen, Van Ghent, Kortenaer, Piet Hein.
- Standard displacement is 1316 tons.
- Can carry 24 mines.

Ship Reference Sheet					1. Ship name Jacob Van Heemskerck																		
2. Ship class Tromp		3. Ship Type CL		4. Size class B		5. Speed 33		6. Propulsion Steam Turbine			7. Crew 380		8. Total Mounts 5		9. Armor Class 2/2								
Radars (Annex G) Name Function		Range Large		Range Small		Range Vsmall		Damage Point Effects Percentage Damage															
								0%			25%		50%		75%		90%		100%				
Type 285		FC-A		6		3		1.5		Damage Points		0		34		68		101		122		135	
Type 279		AS		70		35		17.5		Surface Speed		33		25		16		8		0		Sinks	
										Acceleration Rate (% of Max Speed)		0-50%		51-100%		Deceleration Rate (Any Speed)		12kts					
												10kts		5kts									
Sonar (Annex H) Name Type		Active Range		Passive Range		Surf Ship		Submarine		Torpedo		Turning Distance (Hard Rudder)		200yds		Speed Loss per 45° Turn		4kts (HR)		Note: Turns greater than 45° halves acceleration rate			
												300yds				3kts (SR)							
Embarked Aircraft:																							
Guns (Annex C)																							
Arc(bb)Mts Name		Shell Type		Range		Short Range (7)			Med Range (5)			Long Range (2)			Extreme Range (1)			FC Radar, Strength, Rng					
						Pen Dam/Mt Range			Pen Dam/Mt Range			Pen Dam/Mt Range			Pen Dam/Mt Range								
2F/P/S/A (2)5		MkXVI 4 in/45		HE		0-3.0		3 15 3.1-9.0			2 12 9.1-15.0			0 5 15.1-20.0			1 5						
				SAP				11 10			8 7			2 3			3 2						
vs. Belt Armor _____ vs. Deck Armor _____																							
Area AA Guns:		(2)5 Mk XVI 4 in./45										Area AA Range:		5.0		Area AA Strength: 2.1							
Light AA Guns:		(4)1 2 pdr., (1)6 20mm												Light AA Strength: 1.9									
Anti-Submarine Warfare Systems (Annex D)																							
Arc(bb)Mts Name		Range		PH		Dam Pts		Remarks															

Depth Change Armament:		Max Pattern Size:		Max Pattern Depth:									
DC Type:		Total DC's Carried:											
Torpedoes (Annex E) Arc(bb)Mts Torpedo Type		# Torps per mt		Speed kts		Dist/Tn yds		Range yds		Damage Points		Remarks	

Notes and Remarks:

(1) One ship in class; ship incomplete at time of German invasion and armed in Britain.

(2) Standard displacement listed as 3787 tons.

