







Z53

DD GERMANY

8486-0 Z52 Class

PLAN

Displacement  
Complement

2,800 ts  
320

Length  
Beam  
Draft

414 ft  
41 ft  
13.58 ft

Deschimag, Bremen  
Launched  
Completed



SHIP LOG SHEET

Version 2/16/2009



6 x 12.8cm/45 SKC/41

13

<b>Max ROF</b>		<b>Range</b>		<b>Shell Size/Weight</b>	
17.0	sh/min	24,553	49.1"	5.0"	61.7 lbs.
<b>Fire Control</b>		<b>FC Radar</b>	<b>+ 2</b>	<b>AP</b>	<b>SAP</b>
1	1G3	FuMO 32-34		COM	HE
<b>AA</b>	3.6	<b>Level</b>	V	<b>Ammunition</b>	180 rpg 1080

FIRE CONTROL TABLE						
T Kts	Short	Medium	Long	Extreme		
0 - 9	21	14	16	11	14	9 12 8
10 - 18	16	11	12	8	11	7 9 6
19 - 27	14	9	11	7	9	6 8 5
28 - 36	12	8	9	6	8	5 7 5
37 - 45	11	7	9	6	7	5 7 4

SAPBC		PENETRATION TABLE													
Yds	2,000	4,000	6,000	8,000	10,000	12,000	15,000	18,000	21,000	24,000	27,000	30,000	33,000	36,000	
<b>ROF</b>	<b>7.8</b>	<b>6.6</b>	<b>5.6</b>	<b>4.8</b>	<b>4.1</b>	<b>3.5</b>	<b>2.8</b>	<b>2.2</b>	<b>1.8</b>	<b>1.4</b>	<b>1.3</b>				
<b>Rge</b>	<b>S</b>	<b>S</b>	<b>S</b>	<b>M</b>	<b>M</b>	<b>M</b>	<b>L</b>	<b>L</b>	<b>E</b>	<b>E</b>	<b>E</b>				
<b>H</b>	0.1	0.2	0.3	0.3	0.4	0.5	0.7	1.1	1.7	2.3	2.4				
<b>V</b>	6.9	5.7	4.7	3.8	3.0	2.5	1.8	1.7	1.4	1.0	0.7				

<b>Crew</b>	<b>Sea</b>	<b>BR</b>	<b>Targ Sz</b>	<b>Ops</b>
			1	

AIRCRAFT

Aircraft	0	Catapult	0
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<div style="display: flex; flex-direction: column; align-items: center;"> <div style="margin-bottom: 10px;">1</div> <div style="margin-bottom: 10px;">2</div> </div>	<b>TORPEDOES</b>			
	<b>TT</b>	8	<b>Ammo</b>	16
	53cm G7a T1			
	<b>Damage Class</b>	C		
	<b>Settings</b>			
		6,500/44	8,800/40	15,300/30
<b>MINES</b>				
	60			

RAPID FIRE BATTERIES

<b>RF1</b>	3	<b>5.5cm/76 G/58</b>			
Max Rg	8,000	16.0"	9	7	
Eff Rg	3,600	7.2"	13	10	

<b>RF</b>	<b>Port</b>	2	1	1	0	0
<b>19</b>	<b>Stbd</b>	2	1	1	0	0

<b>AA</b>	<b>Port</b>	17	14	9	6	3
<b>H</b>	<b>Stbd</b>	17	14	9	6	3

<b>RF2</b>	14	<b>2cm Flak L/65 C38</b>			
Max Rg	5,358	10.7"	9	7	
Eff Rg	2,411	4.8"	13	10	

<b>RF</b>	<b>Port</b>	7	6	4	2	1
<b>4</b>	<b>Stbd</b>	7	6	4	2	1

<b>AA</b>	<b>Port</b>	40	32	22	13	6
<b>L</b>	<b>Stbd</b>	40	32	22	13	6

<b>RF3</b>	<b>None</b>					
Max Rg						
Eff Rg						

<b>RF</b>	<b>Port</b>					
	<b>Stbd</b>					

<b>AA</b>	<b>Port</b>					
	<b>Stbd</b>					

Captain

All diesel propulsion.

T#	BTTY	TARGET SHIP	SHELL	FCS	BR	H	RANGE	R	#RND	HITS

Coal (ts)	0	Oil (ts)	640	Radius (nm/kts)		Search Radar		ASW MORTARS/ATW		DEPTH CHARGES	
Engines	8 MAN Diesel			6800	19	FuMO 63/Hohentwiel-K		4xK Guns		Rack	2
Boilers	None					None				Ammo	64

TIER	DP	DP	961								
1/70	96	KTS	37								
2/80	192										
3/75	288	Engine Rm	4	37	33	21	7	0	0	Standard Turn	Target Sz
4/85	384	Prop/Shaft	2	37	19	0	0	0	0	45	1
5/80	481	Boiler Rm	0	37	0	0	0	0	0	Emergency Turn	Searchlights
6/90	567									60	Port Stbd
7/85	653	Speed	00-12 kt	13-21 kt	22-27 kt	28-30 kt	31+ kt				Crew
8/95	740	Increase	13.0	9.0	6.0	3.0	1.0				
9/90	826										
10	913	Bridge Command Rating									
10	971	Flag Command Rating								2	

Fuel Code	DD5D	
ARMOR	1.00	Actual
1H DECK	0.0	0.0
2H TURRET	0.0	0.0
3H SUPERSTR	0.0	0.0
4V CON	0.0	0.0
5V BELT MID	0.0	0.0
6V BELT END	0.0	0.0
7V BARBETTE	0.0	0.0
8V TURRET	0.0	0.0
9V SUPERSTR	0.0	0.0

T#	DE #	SEVERITY	DESCRIPTION

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	CODE	ORDER	
																					AF	ObeysignalsfromFlagship
																					AI	IndependentAction
																					AX	BattleStations!
																					AA	Abandonship!
																					AZ	Strikecolors
COURSE AND SPEED																						
																					CA	Midshipssteady
																					CP #	AltercoursetoPORT
																					CS #	AltercoursetoSTARBOARD
																					SF	Aheadfull
																					SR#	Revolutionsfor#knots
																					SA	Fullastern
																					SS	Allstop
ILLUMINATION AND EVASION																						
																					EX	Evasiveaction
																					KX	Laysmoke
																					IS ##	Illuminateusingstarshell
																					IL #	Illuminateusingsearchlight
TORPEDO AND AIRCRAFT																						
																					TR (X)	Preparetolaunchtorpedoes to (X)
																					TL (X)	Launchtorpedoes to (X)
																					VL	Preparetolaunchaircraft
																					VX	Launchaircraft
PRIMARY BATTERY																						
																					B1D	Directedfire as range permits
																					B1V	Coordinatedfire
																					B1L	Localcontrol as range permits
																					B1P	Splitfire
																					B1C	Change target
																					B1B	Barragefire as range permits
RF BATTERY																						
																					R5B	Barragefire as range permits
																					R6B	Barragefire as range permits
																					R7B	Barragefire as range permits

KTS	4	6	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40
STD	3.0	4.5	6.0	7.5	9.0	10.5	12.0	13.5	15.0	16.5	18.0	19.5	21.0	22.5	24.0	25.5	27.0	28.5	30.0
E/EA	NA	NA	NA	NA	6.0	7.0	8.0	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0	18.0	19.0	20.0

DEG OF TURN	SEGMENTS
TO 15	2 Segments*
16 TO 45	2 Segments
46 TO 90	3 Segments
91 TO 135	4 Segments
136 TO 180	5 Segments

T#	Fire	Current Severity	T#	Fire	Current Severity

NO DAMAGE CONTROL		DAMAGE CONTROL	
ROLL	EFFECT ON FIRE	ROLL	EFFECT ON FIRE
01-03	-20 from severity	01-05	Fire extinguished
04-12	-10 from severity	06-15	-30 from severity
13-50	No change	16-45	-20 from severity
51-85	+10 to severity	46-75	-10 from severity
86-95	+30 to severity	76-90	No change
96-00	+40 to severity	91-00	+10 to severity



**Z54**

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8487-0 Z52 Class

PLAN

Displacement  
Complement

2,800 ts  
320

Length 414 ft  
Beam 41 ft  
Draft 13.58 ft

Deschimag, Bremen  
Launched  
Completed



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Version 2/16/2009

6 x 12.8cm/45 SKC/41

**13**

Max ROF		Range		Shell Size/Weight	
17.0	sh/min	24,553	yds 49.1"	5.0"	61.7 lbs.
Fire Control		FC Radar	+ 2	AP	SAP
1	1G3	FuMO 32-34		COM	HE
AA	3.6	Level	V	Ammunition	180 rpg 1080

T Kts	Short	Medium	Long	Extreme				
0 - 9	21	14	16	11	14	9	12	8
10 - 18	16	11	12	8	11	7	9	6
19 - 27	14	9	11	7	9	6	8	5
28 - 36	12	8	9	6	8	5	7	5
37 - 45	11	7	9	6	7	5	7	4

SAPBC		PENETRATION TABLE												
Yds	2,000	4,000	6,000	8,000	10,000	12,000	15,000	18,000	21,000	24,000	27,000	30,000	33,000	36,000
ROF	7.8	6.6	5.6	4.8	4.1	3.5	2.8	2.2	1.8	1.4	1.3			
Rge	<b>S</b>	<b>S</b>	<b>S</b>	<b>M</b>	<b>M</b>	<b>M</b>	<b>L</b>	<b>L</b>	<b>E</b>	<b>E</b>	<b>E</b>			
H	0.1	0.2	0.3	0.3	0.4	0.5	0.7	1.1	1.7	2.3	2.4			
V	6.9	5.7	4.7	3.8	3.0	2.5	1.8	1.7	1.4	1.0	0.7			

Crew	Sea	BR	Targ Sz	Ops
			1	
AIRCRAFT				
Aircraft	0		Catapult	0

TORPEDOES		
TT	8	Ammo 16
53cm G7a T1		
Damage Class		C
Settings		
	6,500/44	
	8,800/40	
	15,300/30	
MINES		
	60	

RAPID FIRE BATTERIES						
RF1	3	5.5cm/76 G/58				
Max Rg	8,000	16.0"	9	7		
Eff Rg	3,600	7.2"	13	10		
RF	Port	2	1	1	0	0
19	Stbd	2	1	1	0	0
AA	Port	17	14	9	6	3
H	Stbd	17	14	9	6	3

RF2	14	2cm Flak L/65 C38				
Max Rg	5,358	10.7"	9	7		
Eff Rg	2,411	4.8"	13	10		
RF	Port	7	6	4	2	1
4	Stbd	7	6	4	2	1
AA	Port	40	32	22	13	6
L	Stbd	40	32	22	13	6

RF3	None					
Max Rg						
Eff Rg						

RF	Port					
	Stbd					
AA	Port					
	Stbd					

Captain

All diesel propulsion.

T#	BTTY	TARGET SHIP	SHELL	FCS	BR	H	RANGE	R	#RND	HITS

Coal (ts)	0	Oil (ts)	640	Radius (nm/kts)		Search Radar		ASW MORTARS/ATW		DEPTH CHARGES	
Engines	8 MAN Diesel			6800	19	FuMO 63/Hohentwiel-K		4xK Guns		Rack 2	
Boilers	None					None				Ammo 64	





**Z55**  
 DD GERMANY  
 8488-0 Z52 Class

PLAN

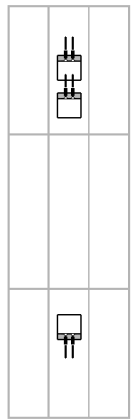
Displacement  
 Complement

2,800 ts    Length    414 ft    Deschimag, Bremen  
 320          Beam         41 ft     Launched  
                  Draft         13.58 ft   Completed



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Version    2/16/2009



6 x 12.8cm/45 SKC/41

13

<b>Max ROF</b>		<b>Range</b>		<b>Shell Size/Weight</b>	
17.0	sh/min	24,553 yds	49.1"	5.0"	61.7 lbs.
<b>Fire Control</b>		<b>FC Radar</b>		<b>AP</b>	
1	1G3	+ 2			
		FuMO 32-34		<b>SAP</b>	
				COM	
				HE	
<b>AA</b>	3.6	<b>Level</b>	V	<b>Ammunition</b>	180 rpg 1080

<b>FIRE CONTROL TABLE</b>									
T Kts	Short	Medium	Long	Extreme					
0 - 9	21	14	16	11	14	9	12	8	
10 - 18	16	11	12	8	11	7	9	6	
19 - 27	14	9	11	7	9	6	8	5	
28 - 36	12	8	9	6	8	5	7	5	
37 - 45	11	7	9	6	7	5	7	4	

<b>SAPBC</b>		<b>PENETRATION TABLE</b>												
<b>Yds</b>	2,000	4,000	6,000	8,000	10,000	12,000	15,000	18,000	21,000	24,000	27,000	30,000	33,000	36,000
<b>ROF</b>	7.8	6.6	5.6	4.8	4.1	3.5	2.8	2.2	1.8	1.4	1.3			
<b>Rge</b>	<b>S</b>	<b>S</b>	<b>S</b>	<b>M</b>	<b>M</b>	<b>M</b>	<b>L</b>	<b>L</b>	<b>E</b>	<b>E</b>	<b>E</b>			
<b>H</b>	0.1	0.2	0.3	0.3	0.4	0.5	0.7	1.1	1.7	2.3	2.4			
<b>V</b>	6.9	5.7	4.7	3.8	3.0	2.5	1.8	1.7	1.4	1.0	0.7			

<b>Crew</b>	<b>Sea</b>	<b>BR</b>	<b>Targ Sz</b>	<b>Ops</b>
			1	

**AIRCRAFT**

Aircraft	0	Catapult	0
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**TORPEDOES**

<b>TT</b>	8	<b>Ammo</b>	16
53cm G7a T1			
<b>Damage Class</b>	<b>C</b>		
<b>Settings</b>			
6,500/44			
8,800/40			
15,300/30			
<b>MINES</b>			
60			

**RAPID FIRE BATTERIES**

<b>RF1</b>	<b>3</b>	<b>5.5cm/76 G/58</b>			
Max Rg	8,000	16.0"	9	7	
Eff Rg	3,600	7.2"	13	10	

<b>RF</b>	Port	2	1	1	0	0
	Stbd	2	1	1	0	0
<b>19</b>						

<b>AA</b>	Port	17	14	9	6	3
	Stbd	17	14	9	6	3
<b>H</b>						

<b>RF2</b>	<b>14</b>	<b>2cm Flak L/65 C38</b>			
Max Rg	5,358	10.7"	9	7	
Eff Rg	2,411	4.8"	13	10	

<b>RF</b>	Port	7	6	4	2	1
	Stbd	7	6	4	2	1
<b>4</b>						

<b>AA</b>	Port	40	32	22	13	6
	Stbd	40	32	22	13	6
<b>L</b>						

<b>RF3</b>	<b>None</b>				
Max Rg					
Eff Rg					

<b>RF</b>	Port				
	Stbd				

<b>AA</b>	Port				
	Stbd				

Captain

All diesel propulsion.

T#	BTTY	TARGET SHIP	SHELL	FCS	BR	H	RANGE	R	#RND	HITS

Coal (ts)	0	Oil (ts)	640	Radius (nm/mts)	6800	19	Search Radar	FuMO 63/Hohentwiel-K	ASW MORTARS/ATW	4xK Guns	Rack	2	DEPTH CHARGES	Ammo	64
Engines	8 MAN Diesel						None								
Boilers	None														







Z56

DD GERMANY

8489-0 Z52 Class

PLAN

Displacement  
Complement

2,800 ts  
320  
Length 414 ft  
Beam 41 ft  
Draft 13.58 ft  
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Launched  
Completed



SHIP LOG SHEET

Version 2/16/2009

6 x 12.8cm/45 SKC/41

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FIRE CONTROL TABLE

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10 - 18	16 11	12 8	11 7	9 6
19 - 27	14 9	11 7	9 6	8 5
28 - 36	12 8	9 6	8 5	7 5
37 - 45	11 7	9 6	7 5	7 4

Max ROF		Range		Shell Size/Weight	
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ROF	7.8	6.6	5.6	4.8	4.1	3.5	2.8	2.2	1.8	1.4	1.3				
Rge	S	S	S	M	M	M	L	L	E	E	E				
H	0.1	0.2	0.3	0.3	0.4	0.5	0.7	1.1	1.7	2.3	2.4				
V	6.9	5.7	4.7	3.8	3.0	2.5	1.8	1.7	1.4	1.0	0.7				

Crew	Sea	BR	Targ Sz	Ops
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Captain

All diesel propulsion.

AIRCRAFT

Aircraft	0	Catapult	0
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TORPEDOES

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53cm G7a T1			
Damage Class	C		
Settings			
6,500/44			
8,800/40			
15,300/30			
MINES			
60			

1

2

RAPID FIRE BATTERIES

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Max Rg	8,000	16.0"	9	7	
Eff Rg	3,600	7.2"	13	10	

RF	Port	2	1	1	0	0
19	Stbd	2	1	1	0	0

AA	Port	17	14	9	6	3
H	Stbd	17	14	9	6	3

RF2	14	2cm Flak L/65 C38			
Max Rg	5,358	10.7"	9	7	
Eff Rg	2,411	4.8"	13	10	

RF	Port	7	6	4	2	1
4	Stbd	7	6	4	2	1

AA	Port	40	32	22	13	6
L	Stbd	40	32	22	13	6

RF3	None					
Max Rg						
Eff Rg						

RF	Port					
	Stbd					

AA	Port					
	Stbd					

Coal (ts)	0	Oil (ts)	640	Radius (nm/kts)		Search Radar		ASW MORTARS/ATW		DEPTH CHARGES	
Engines	8 MAN Diesel			6800	19	FuMO 63/Hohentwiel-K		4xK Guns		Rack	2
Boilers	None					None				Ammo	64

