2005 IMO 1974 SOLAS II-1
80 MSC.194(80)
2 SOLAS II-1 Part A B B-1 82
MSC.194(80) SOLAS II- MSC.216 82
2009 1 1 MSC.194(80)
2 MSC.216 82 2 3 SOLAS II-1 “SOLAS 2009”
MSC.194(80) 1 MSC.216 82 1 SOLAS II-1 “ SOLAS
II-1 ”
“SOLAS 2009” SOLAS II-1
SOLAS 90 SOLAS 92

IMO “SOLAS II-1 ” MSC.281(85)
MSC.281(85) CCS SOLAS 2009 Part A
B B-1 B-4 IMO IACS UI
SOLAS 2009
IMO 85 IACS 2009
3 2 SOLAS
2009 SOLAS II-1
SOLAS 2009 “ 2.1 ”
SOLAS 2009 2 1

1 d_s d_p d_l GM KG

KM_T KG GM

d_p d_l KM_T

d_p d_l

2 $\pm 0.5\%L_s$ GM

GM

$1\%L_s$ d_l GM GM

3 GM

GM

2.11

60%

0.25

7-3.2

第 6 条 要求的分舱指数 R

6.1

1

6.2.4

“ ” “ 20 n mile

N $N = N_1+N_2$ ”

第 7 条 达到的分舱指数 A

7.1

1 A A

A

$$A = 0.4A_s + 0.4A_p + 0.2A_l$$

s p l d_s d_p d_l

2 A

$$A_c = \sum_{i=1}^{i=t} p_i \; [v_i \;\; s_i]$$

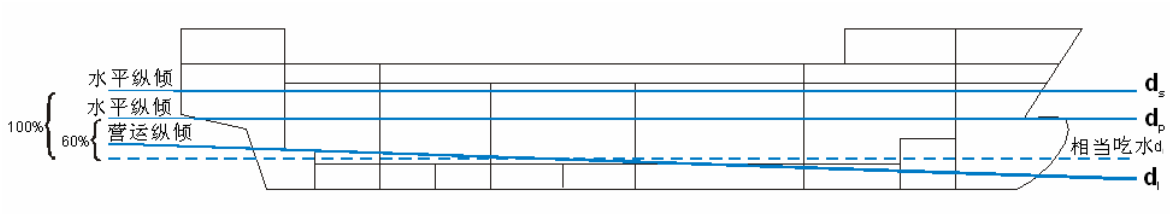
2.1 c 3 i t
A_c
2.2 A t T
3

4 A

p_i p
v_i v

s_i s

5 A 3 GM(KG)



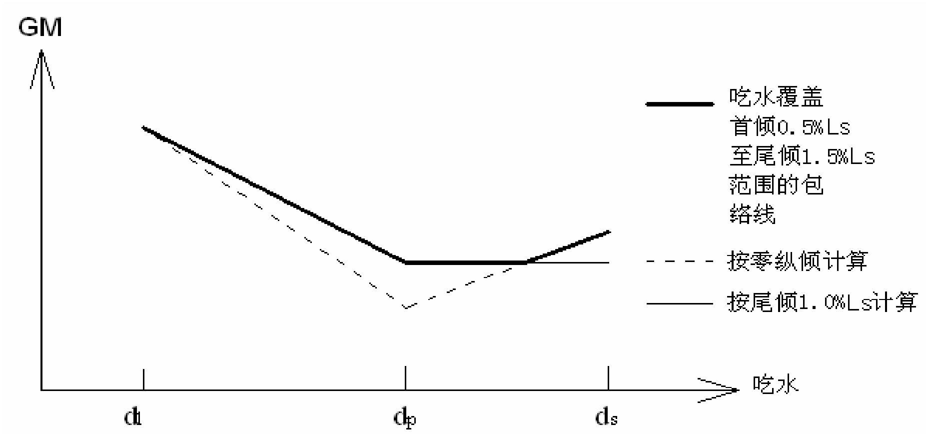
6 3 GM(KG) GM(KG)
R GM(KG)
GM(KG) GM(KG) 3 GM

7.2

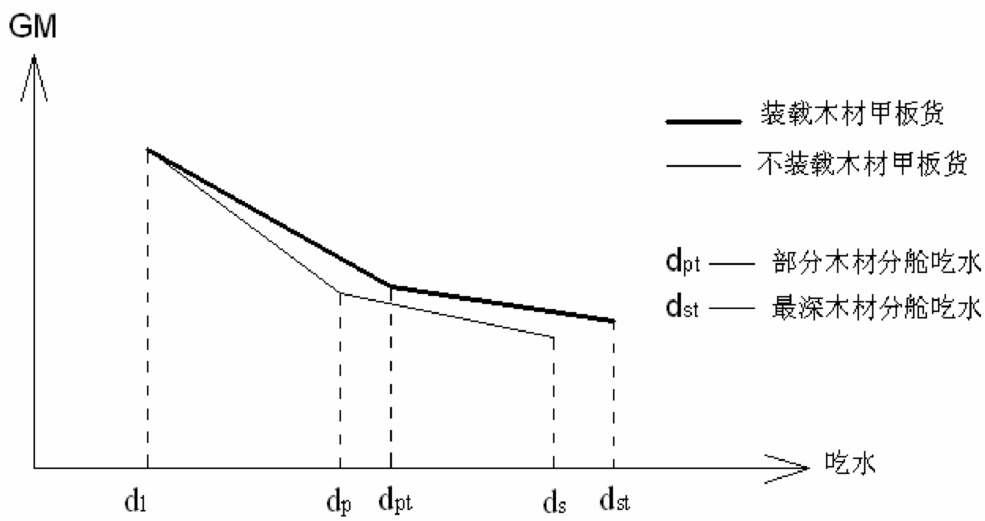
1
2.11
2 A 6.2 (7.1
A A_l A_p A_s) 6.1
GM GM
3
3.1 GM ±0.5%L_s ±0.5%L_s
1%L_s GM
0.5%L_s -1.5%L_s GM
“ =0 ” “ =-1.0%L_s ”

GM “ =0 ” -0.5%L_s +0.5%L_s “
=-1.0%L_s ” -0.5%L_s -1.5%L_s GM
GM

3.2 GM “
GM GM GM
”



3.3 GM
GM 5-1.4



7.5

1 A

2 B

3

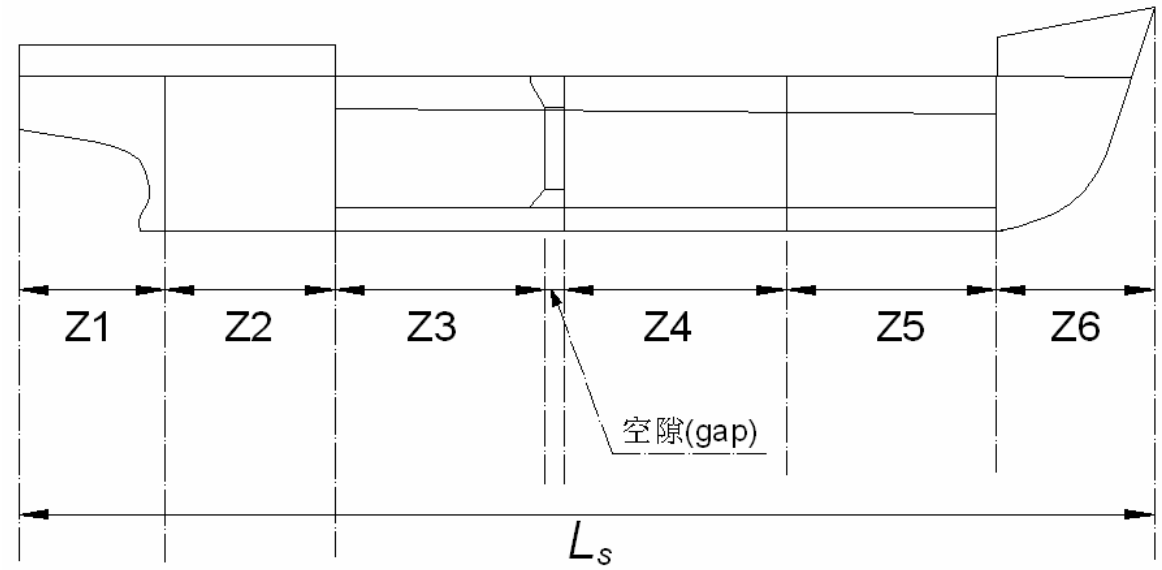
7.7

1

2 “ ”
710㎜²

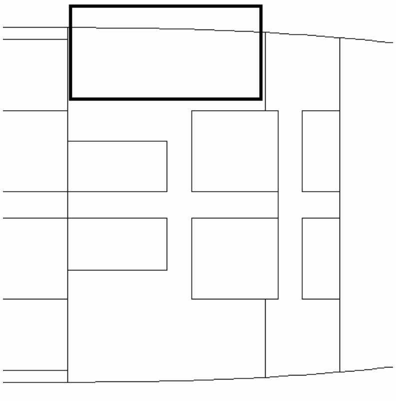
第 7-1 条 因数 p_i 的计算

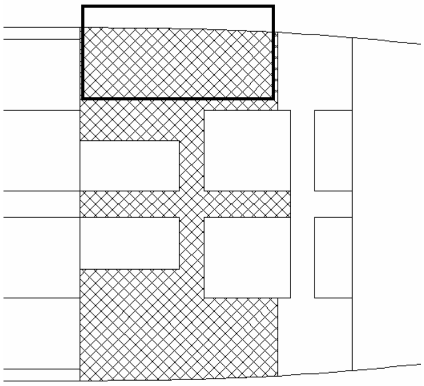
1 B-1
1.1 7-1 “ compartment ” “ group of compartments ”
“ zone ” “ adjacent zones ”
1.2 zone
1.3 room
1.4 space (room)
1.5 compartment
1.6 damage
1.7 gap L_s



2.1 1.6 “ ”

2.2 p v r b s





3 1.7 “ ” “ ”

P_i

“

” P_i “ ”

7-1.1.1

1 b_{11} b_{12} b_{21} b_{22} J b_{12}

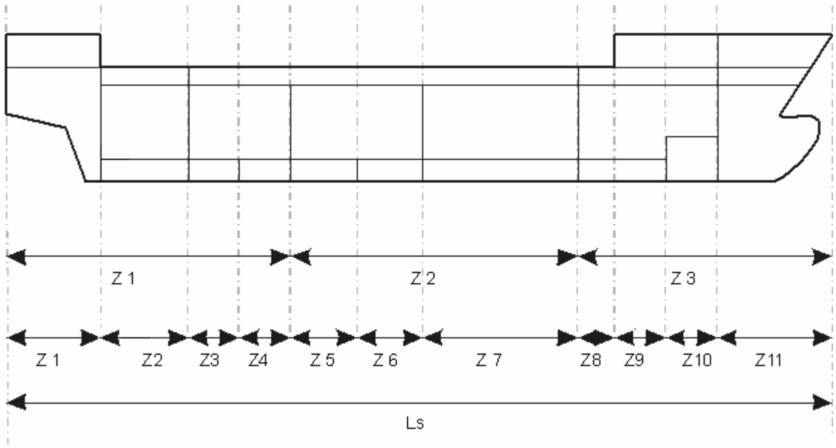
L_s L^* $L_s \le L^*$ $L^* = 260\text{m}$ L_s

2 A L_s

3 L_s

A A

A



4 1 3

s $s = 0$ A

5 2

s

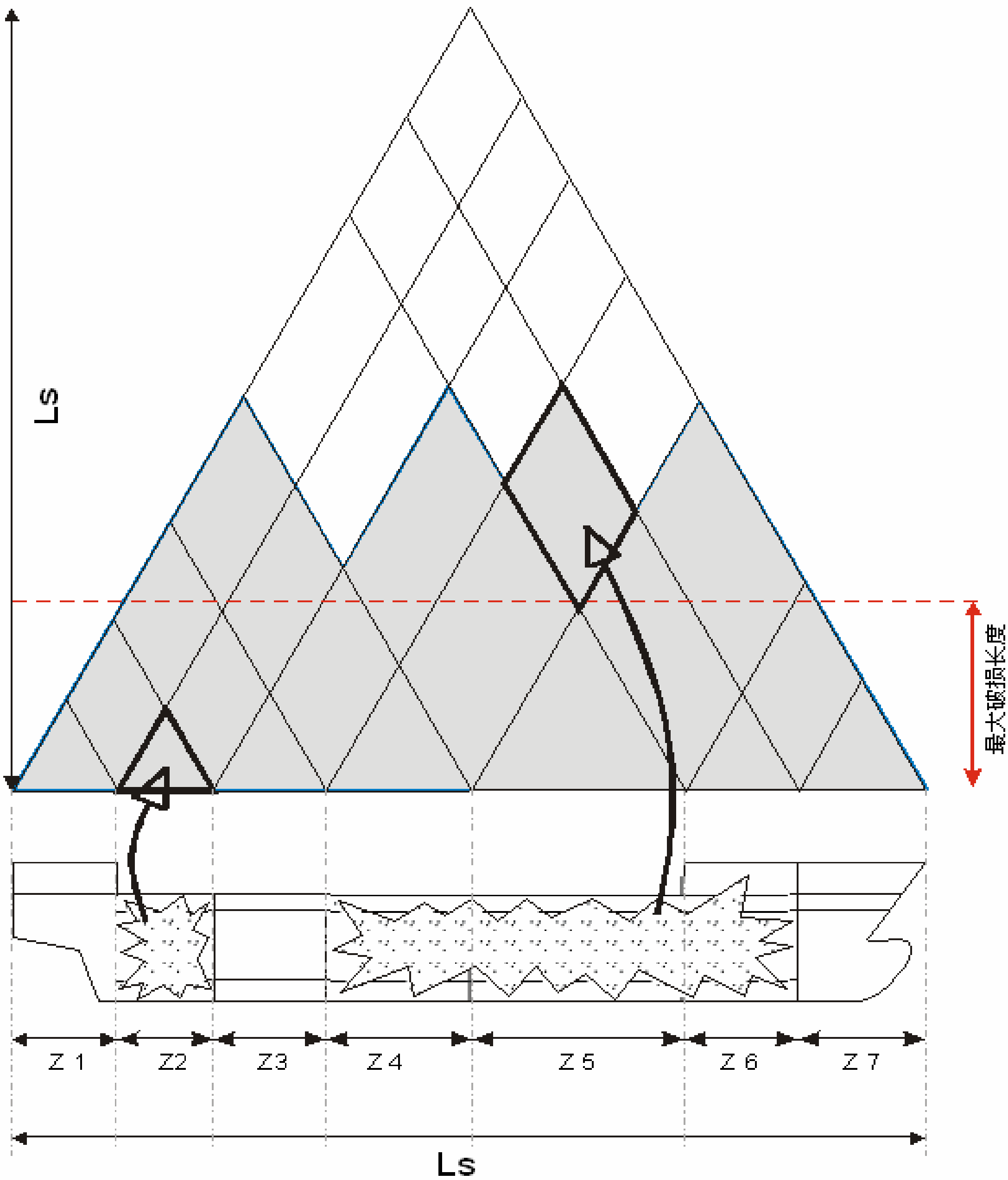
6

7

8

A

9 7



10 2

4 5 6

11 7-1.1.1 60m

p

A

12 p

j

No.1

n

j

k

0

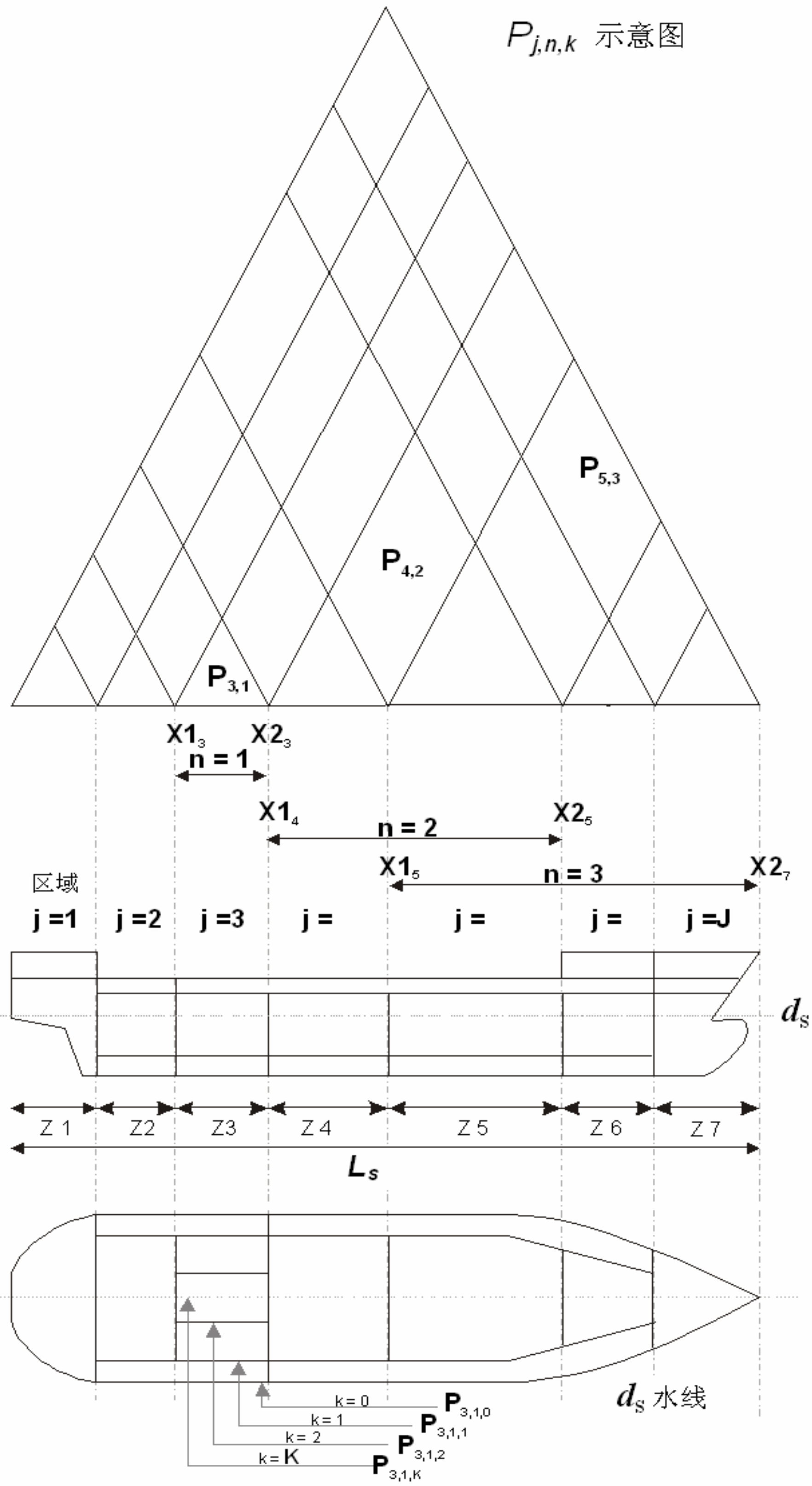
K

$P_{j,n,k}$: j

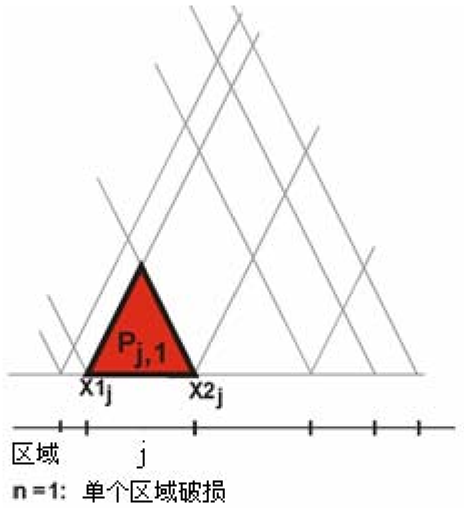
n-1

p

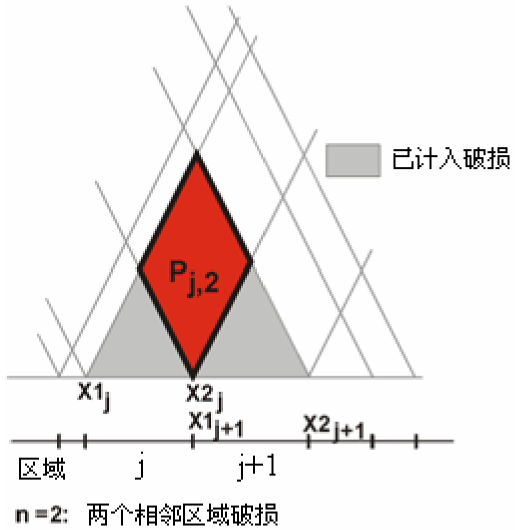
k



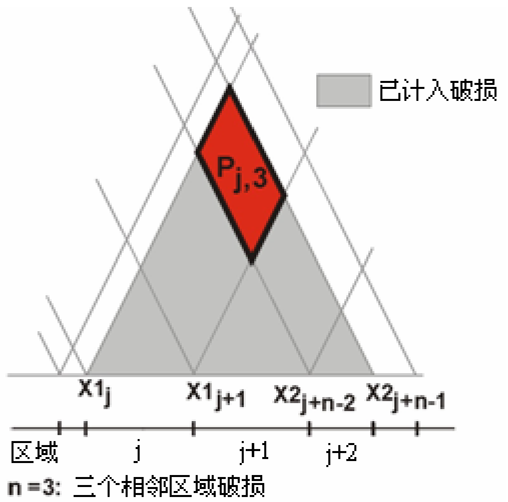
$$p_{j,1} = p(x1_j, x2_j)$$



$$p_{j,2} = p(x1_j, x2_{j+1}) - p(x1_j, x2_j) - p(x1_{j+1}, x2_{j+1})$$



$$p_{j,n} = p(x1_j, x2_{j+n-1}) - p(x1_j, x2_{j+n-2}) - p(x1_{j+1}, x2_{j+n-1}) + p(x1_{j+1}, x2_{j+n-2})$$



7-1.1.2

1

b r $B/2$(B

d_s) r 1.0 b = 0 r = 0

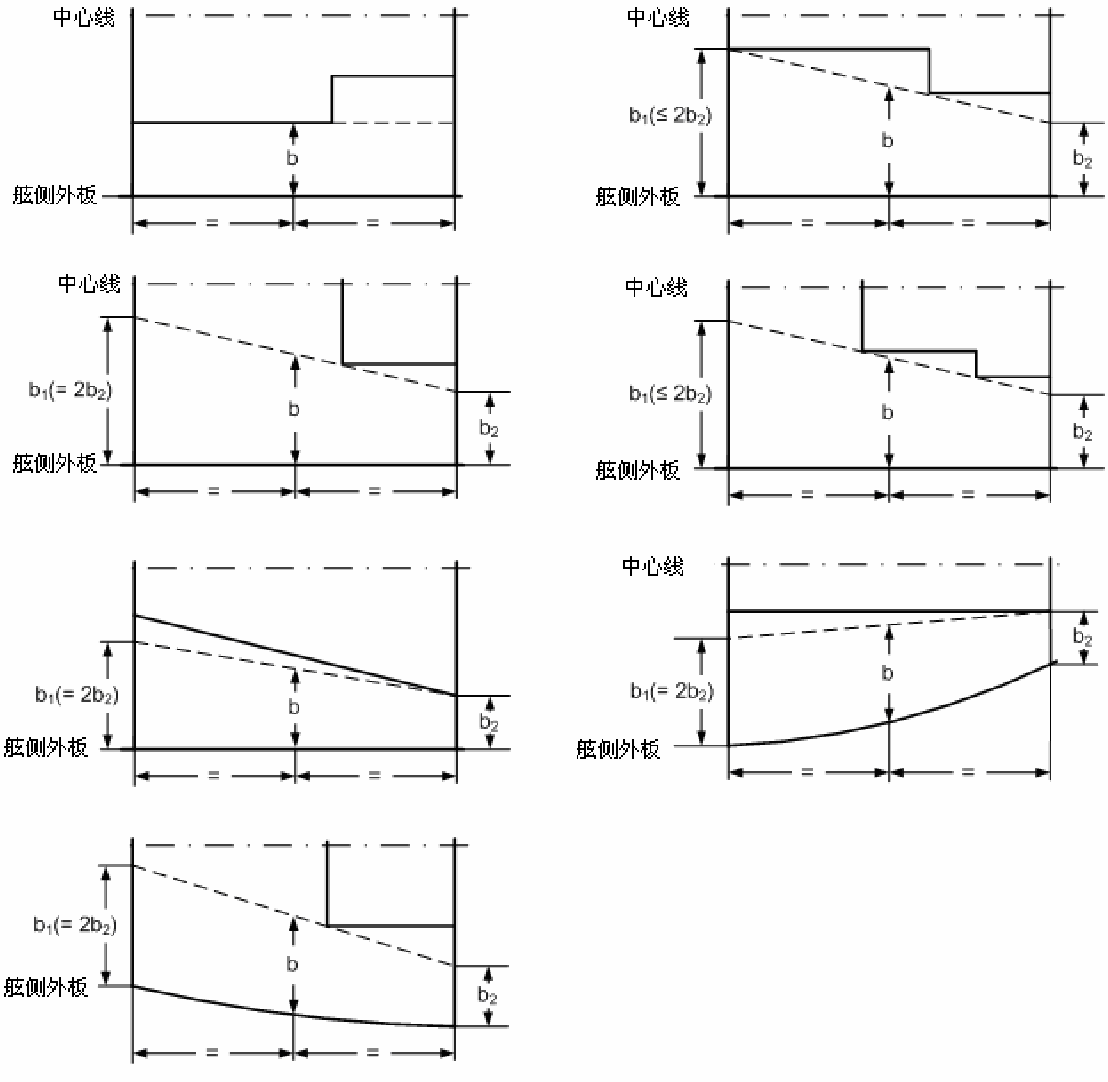
2 b d_s

3 b

$\frac{1}{2} \le b_1/b_2 \le 2$

4 d_s

d_s + 12.5m



5 r b

b

$b = \min \{b_1, b_2, \ldots, b_n\}$

n =

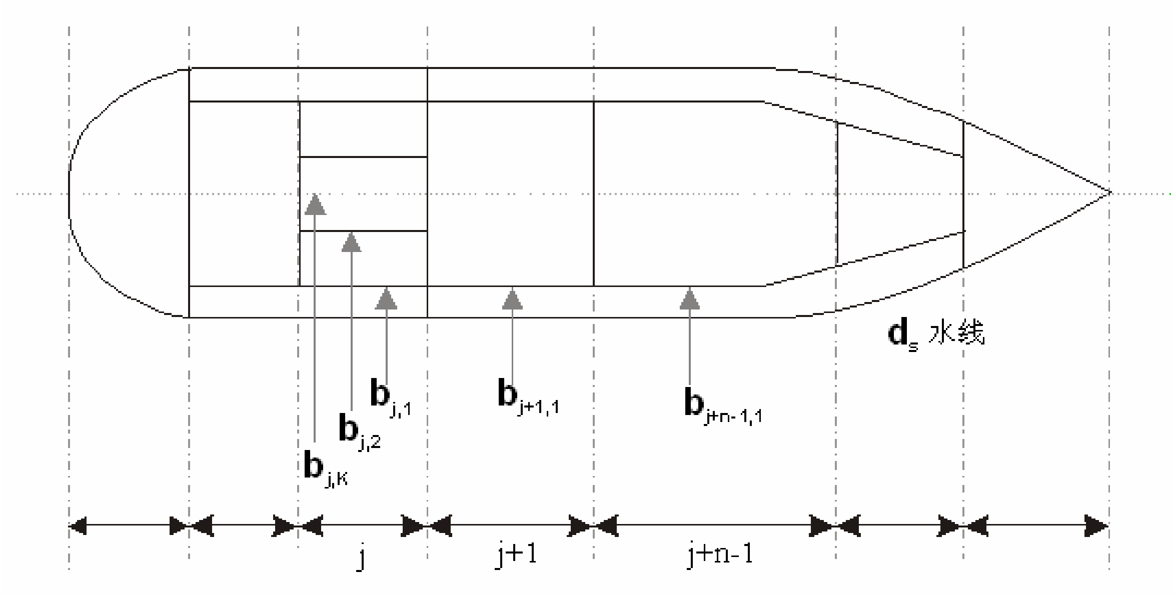
$b_1, b_2, \ldots, b_n =$ b

p

6 p

$$p_{j,n} = \sum_{k=1}^{k=K_{j,n}} p_{j,n,k}$$

$K_{j,n}$ b_k $K_{j,n} = \sum_{j}^{j+n-1} K_j$



7 b j

$j+1$ b $j+n-1$ b 4 2+1+1 b

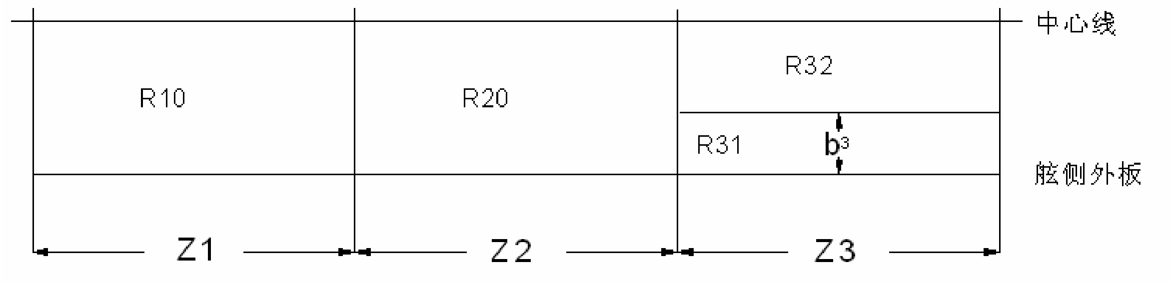
$(b_{j,1}\ ;\ b_{j+1,1}\ ;\ b_{j+n-1,1}\ ;\ b_{j,2}\ ;\ b_K)$

8 $r(x1, x2, b)$ b_k b

$b_{j,1} = b_{j+1,1}$ b $(b_{j,1}\ ;\ b_{j+n-1,1}\ ;\ b_{j,2}\ ;\ b_K)$

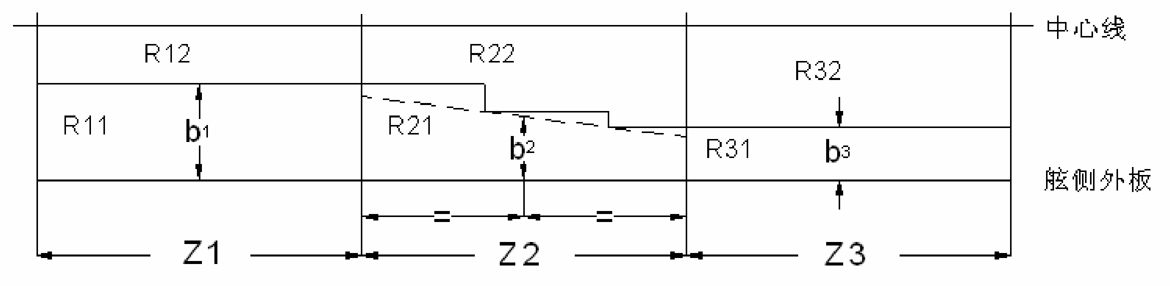
b

9 R10 R12



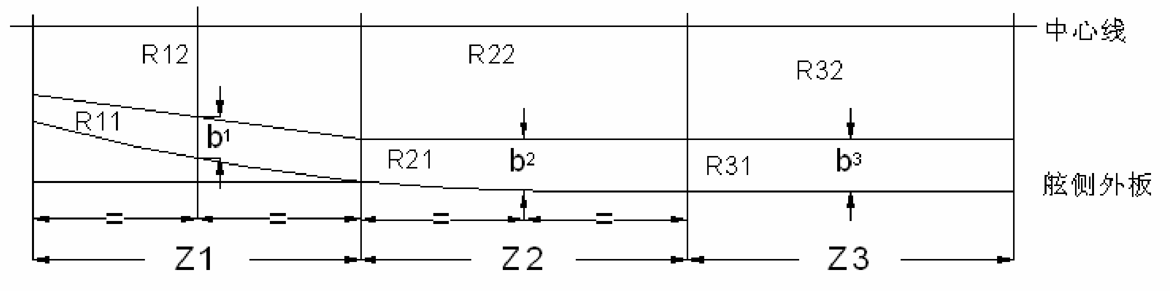
1+2+3 1 b_3 ,

1 b_3,R10 R20 R31
2 B/2,R10 R20 R31 R32



1+2+3 3 4

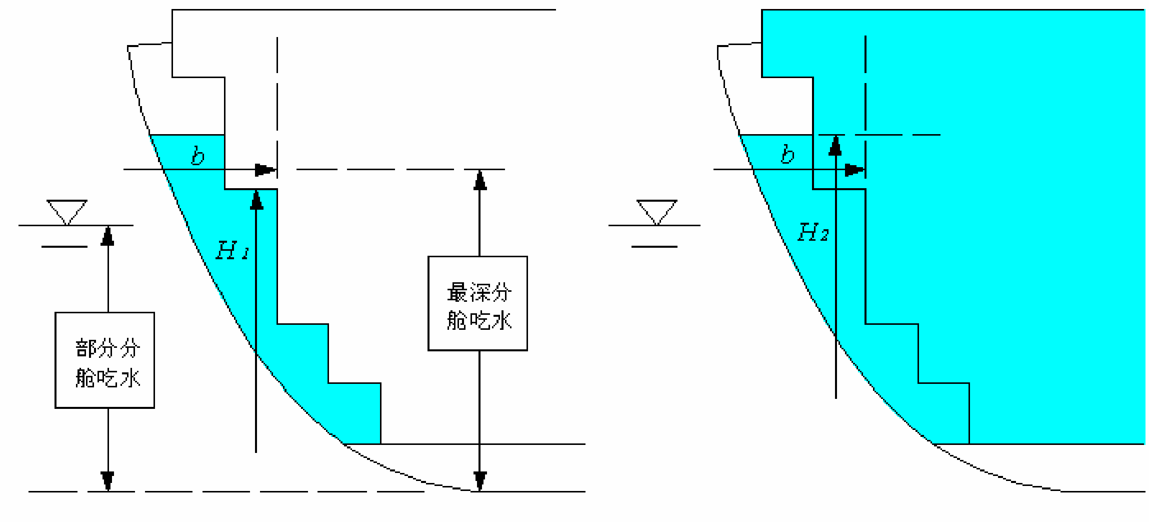
1 b_3,R11 R21 R31
2 b_2,R11 R21 R31 R32
3 b_1,R11 R21 R31 R32 R22
4 $B/2$,R11 R21 R31 R32 R22 R12



1+2+3 $b_1 < b_2 = b_3$ 3

1 b_1,R11 R21 R31
2 b_2,R11 R21 R31 R12
3 $B/2$,R11 R21 R31 R12 R22 R32

10 b H_2 b
H_1 d_p



11 b

12

第 7-2 条　因数 s_i的计算

1 ——

GM 3 d_s d_p d_l

2 —— 5.2 5.3

3 ——

A

s *s* *s*

A

7-2.1

1 *GZ* 1 “

l ” 1 GZ

GZ

图1

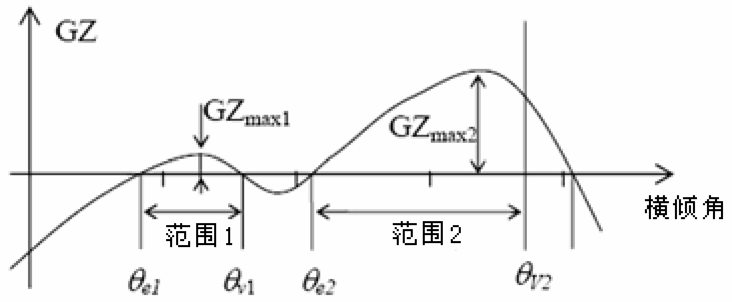
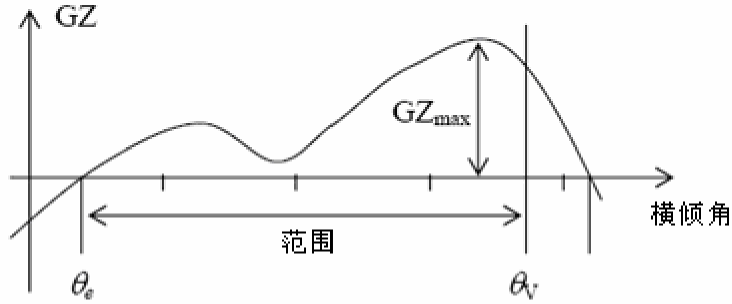


图2



2 1 *s* 1 2 “ ” GZ_{max}
2 1 *s*

7-2.2

1

60*s*

2

A “*B*”
4.4

3

/

4

5 MSC.245(83) 60

60 S_{final} =1

S_{final}

60 60 $S_{intermediate}$ 1

6 10 10

$S_{intermediate}$ S_{final}

7 10 10 s_{final}

MSC.245(83) 10

T = 0

8 10 7-2.1.1 s_{final} 10

s_{final}

9

7-2.4

d_s, d_p d_l

7-2.4.1.1

B 2.8

7-2.4.1.2

A

7-2.5

10

7-2.5.2.1

1
“ s ” GZ
2

“ ”

3 “ ” “ s ” “ ”

4

5
“ ”
“ ”

7-2.5.2.2

1
“ ” SOLAS II-2

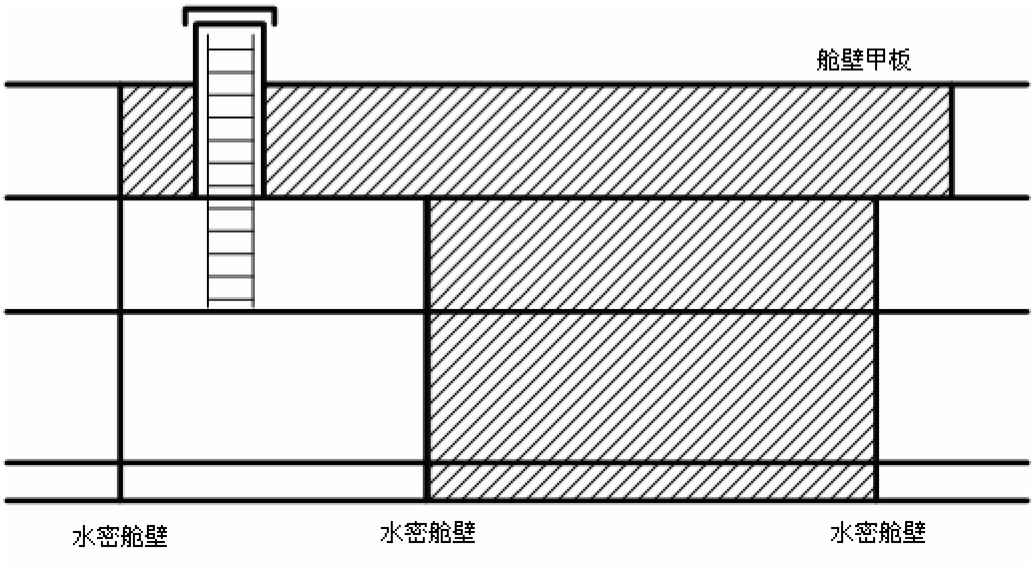
2 SOLAS
II-2/9.2.2.3 2 SOLAS II-2/9.2.2.4 36 4
SOLAS II-2/9.2.2.3 3
SOLAS II-2/9.2.2.4 36 2

3
$s_i = 0$
4 s_i A

7-2.5.3.1

1

2



7-2.6

1

2 v

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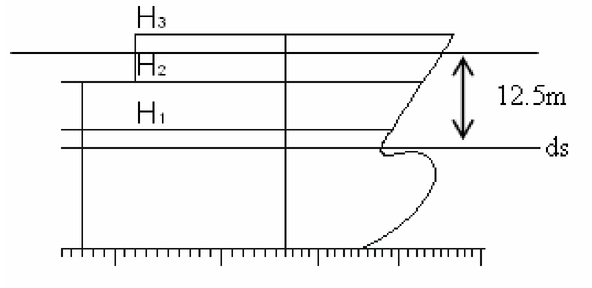
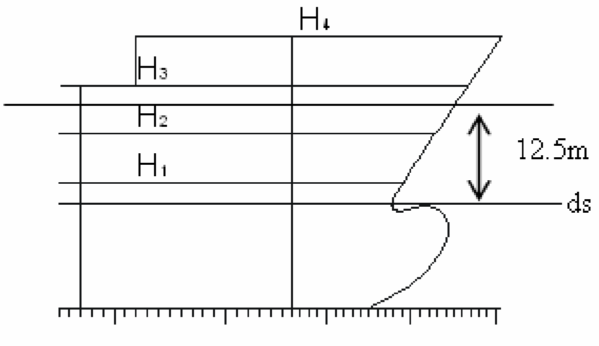
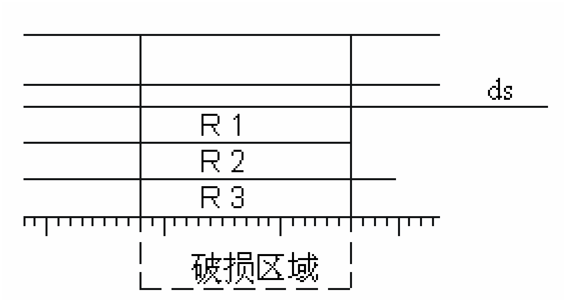






</td>
<td>
3
d+12.5 m
H_3 H_1 v_1 H_2
$v_2 > v_1$ $v_2 < 1$ H_3 $v_3 = 1$

v_1 v_2 H_3

R1 R2
R3 s
</td>
</tr>
</table>

7-2.6.1

x_1 x_2 7-1 $x1$ $x2$

第 7-3 条 渗 透 率

7-3.2

	d_s	d_p	d_l
	0.35	0.70	0.95
	0.60	0.70	0.95

75

7-3.3

1 “ ”

2

第 8 条 客船稳性的特殊要求

8.3.2 8.3.5

6 $N = N_1 + 2N_2$

第 8-1 条 客船进水事故后的系统性能

8-1.2

1 “ compartment ” 7-1 “ compartment ”

2

B-2

第 9 条　客船和货船（除液货船外）双层底

9.1

1

2　　9.3　9.4　　9.1
9.7

9.2

d_p　　9.7

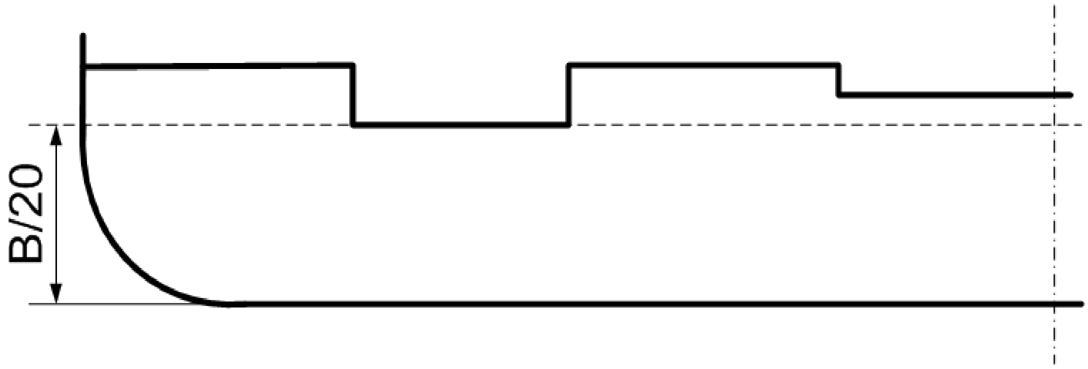
9.6

1　　9.1　9.4　9.5
9.8

2　2.17　“　”

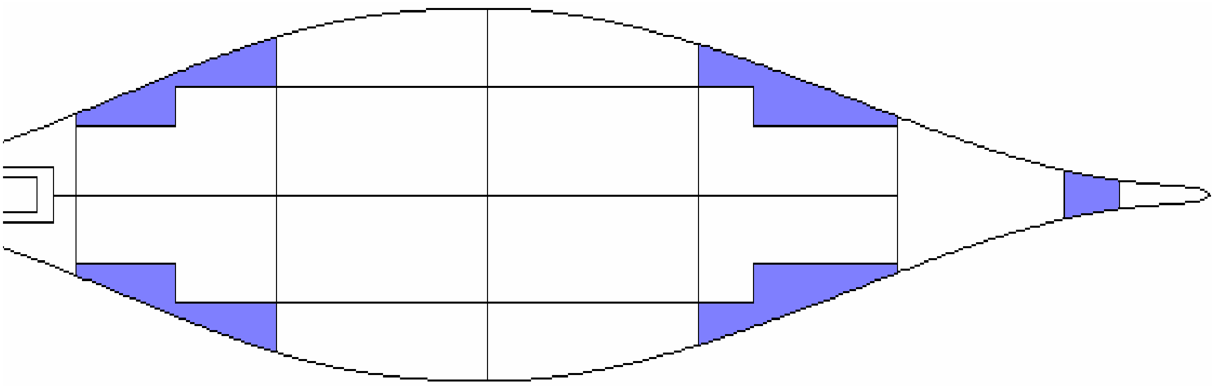
9.7

9.2　“　”
9.2
9.4



9.8

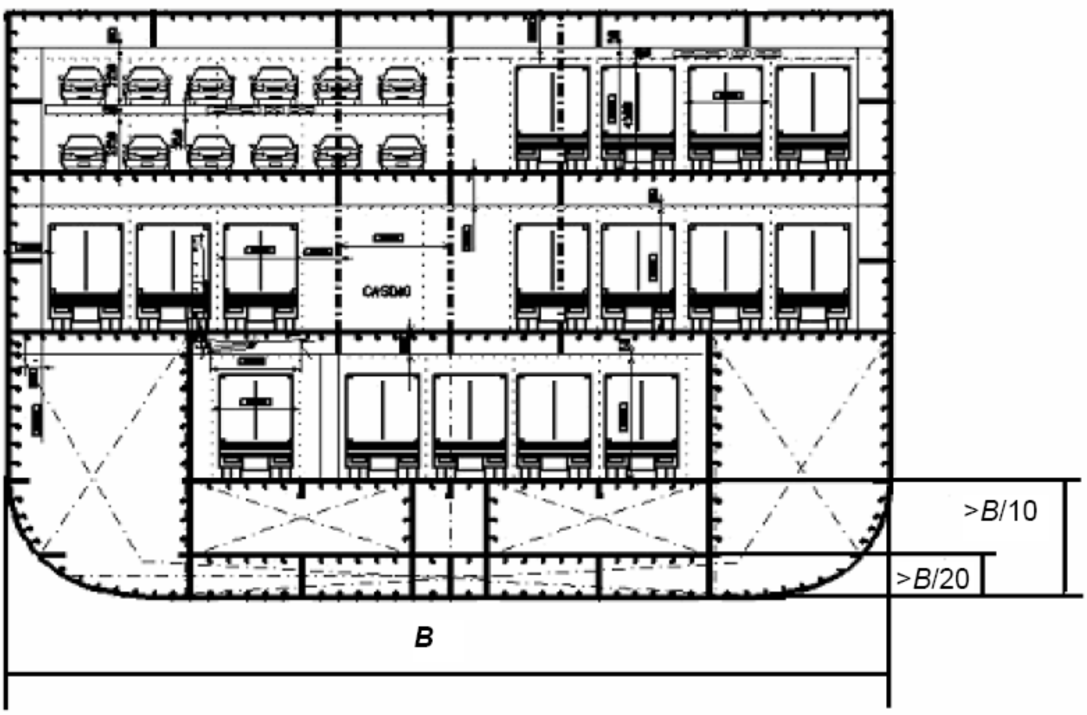
1 “ (all service conditions)” A
3
2 9.1 9.4 9.5
9.3



9.9
1 “ ” 30%

B/10 3m
2 B/10 3m

B/10 3m
B/20 2m 760mm



第 10 条　水密舱壁的构造

10.1

13

13-1

第 12 条　尖舱及机器处所舱壁、轴隧等

0.85*D* *D*

“ 2.7

”

12.6 —

II-1/12.7

II-1/12.1 II-1/12.2

12.10 ——

/ /

/

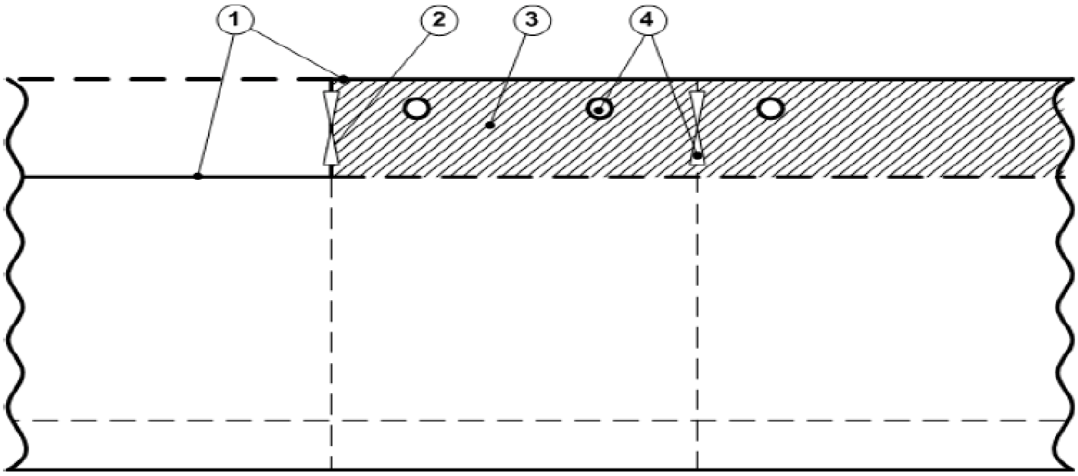
第 13 条　客船舱壁甲板以下水密舱壁上的开口

——

1

17

7-2
2
15



1 2
3 4

1
1

2 SOLAS II-1 ICLL MRAPOL IBC IGC
HSC
3
“ ”

2

3
1 a b
c d a
“ POS ” b “ POH ” c
“ S ” d “ H ”
2

3 1

4 “ ”
“ ”

4

1

2

3 a b

1 liter/min c

$P+4.572 \ h^3/6568$ liter/min

1

	1	2	3	4	5	6	7	8
I.								
A.		POS	Yes	Yes	Yes	No	SOLAS II-1/22.4	SOLAS II-1/22.1,3&4
		S H	No	No	No	Yes	1+4	SOLAS II-1/13.9.1&2, II-1/22.6
B.		POS POH	Yes	Yes	Yes	No		SOLAS II-1/22.4, II-1/17.1 MSC/Circ.541
		S H	No	Yes	No	Yes	2	
		S H	No	Yes	No	Yes		SOLAS II-1/17.2
II.								
A.		POS	Yes	Yes	Yes	No		SOLAS II-1/13-1.2
		S H	No	Yes	No	Yes	2+3+5	SOLAS II-1/13-1.3, II-1/24.4
		S H	No	No	No	Yes	1+4	SOLAS II-1/13-1.4, II-1/24.3, II-1/15-1, II-1/24.1
B.		POS	Yes	Yes	Yes	No		SOLAS II-1/13-1.2
		S H	No	Yes	No	Yes	2+5	SOLAS II-1/13-1.3, II-1/15-1, II-1/24.1

1.
2.

SOLAS II-1/13-1.3, II-1/24.4

3. “ ICLL66+A.320 ” “ ICLL66 1988 ” SOLAS MARPOL IGC IBC

4.

5.

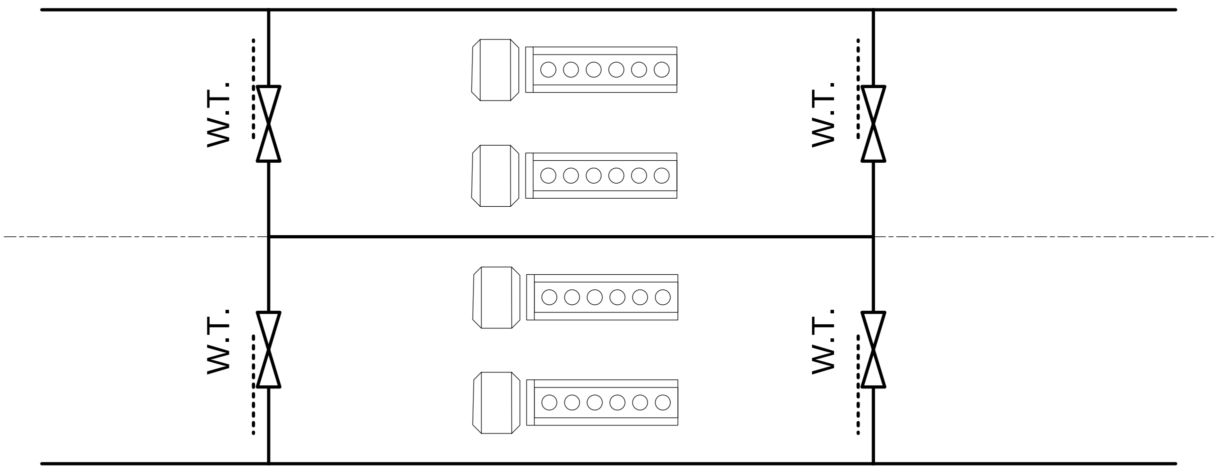
6. UR E15

7. 1997 7 1 I.B. 5 “ No ” “ Yes ”

13.4

/

8-1.2



13.7.6

IEC IEC 529 1976 IEC60529 2003

第 13-1 条　货船水密舱壁和内部甲板上的开口

13

13-1.1

1

2

13 15

13-1.4

第 14 条　载运货车和随车人员的客船

——

13

第 15 条　客船舱壁甲板和货船干舷甲板以下外板上的开口

——

13　　13-1

15.8.3 & 15.10.2　——“　　”

“　　”

15.9

13

第 15-1 条　货船外部开口

——

13

15-1.1

7-2.5.2.1

15-1　“　　”

第 16 条　水密门、舷窗等的构造和初次检验

——

13

16.2

1

2

16.2

13 13-1

第 17 条　客船舱壁甲板以上的内部水密完整性

——

13

——

13

17.1

1

2

3

4

5 II-2 3

6 3 7-2.5.2.1

17.3

8.3

第 17-1 条　客滚船船体和上层建筑的完整性、破损的预防和控制

——

13

B-4

第 19 条　破损控制资料

19.1

1.1　19

1.2

SOLAS

2

1

2

3

/　22.4

4

5

6

7

3

1　2

2

- /
-
- /

3

/

4

5

6

4
5
1

2

6

7
1 3
2

19.5

PART B-1

第 22 条 进水的预防与控制

22.4

第 22-1 条 2010 年 7 月 1 日或以后建造的载运 36 人或以上的客船浸水探测系统

1
2
$30m^3$
3
4
5
1
2
$L_s/5$

MSC/Circ.891
IMO

6

7

1

1

1.1

1.1.1

1.1.2

1.2

1.2.1

GM

1.2.2

1.2.3 SOLAS II-1 B-4 19

2

2.1

KG GM

2.2

.1

.2

.3

.4

.5

.6

.7

.8

.9

.10

.11 MSC.245(83)

.12

.13

2.3

2.3.1

2.3.1.1

.1 Ls

.2 GM

.3 R

.4 A

2.3.1.2 A

.1 GM

.2 p v b

.3 GZ_{max}) s

.4

.5 l

2.3.2

2 SOLAS II-1

1 SOLAS II-1
1.1 MSC.194(80) 1 2007 1 1
1 Part A XII 1.1
2 Part A-1 3-1 3-6
3 3-7 3-8
3-7

3-8
4 Part B 23-3 “ ”
5 Part C “ 31 ” “ 2004 7 1 2.10 ”
1.2 MSC.194(80) 2 2009 1 1
SOLAS II-1 Part A B B-1
1 21 Part C “ 35-1 ” II-1/6
35-1 “ ”

2
3

4 2010 7 1 36

5
1.3 MSC.216(82) 1 2008 7 1
Part A-1 3-2 “ ” “
”
1.4 MSC.216(82) 2
MSC.194(80) 8-1 22-1 MSC.194(80)
2009 1 1 8-1
22-1
1.5 MSC.216 82 3 2010 7 1
1 Part C 41 “ ” 6 “
30 ”
2 “ Part F ” “ 55 ”

2

SOLAS 2009		SOLAS II-1	
A	1	A	1
	2		2
	3 C D E		3 C D E
A-1	3-1	A-1	3-1
	3-2		3-2
	3-3		3-3
	3-4		3-4
	3-5		3-5
	3-6		3-6
	3-7		3-7
	3-8		3-8
B	4	B	4
			5
			6
B-1	5		7
	5-1		8
	6 R		8-1
	7 A		8-2 400
	7-1 p_i		8-3 400
	7-2 s_i		9
	7-3		10
	8		11
	8-1		12
B-2	9		12-1

SOLAS 2009	
	10
	11
	12
	13
	13-1
	14
	15
	15-1
	16
	16-1
	17
	17-1
B-3	18
B-4	19
	20
	21
	22
	22-1

SOLAS II-1		
	13	
	14	
	15	
	16	
	17	
	17-1	
	18	
	19	
	20	
	20-1	
	20-2	
	20-3	
	20-4	
	21	
	22	
	23	
	23-1	
	23-2	
	23-3	
	24	
	25	
B-1	25-1	
	25-2	
	25-3	*R*
	25-4	*A*

SOLAS 2009		SOLAS II-1	
B-4	23	B-1	25-5 p_i
			25-6 s_i
	24		25-7
			25-8
	25		25-9
			25-10
C	21 35-1 35	C	

3 SOLAS 2009

	SOLAS 2009	SOLAS 2009	SOLAS II-1	SOLAS II-1
A				
1				
1	1.1	“2009 1 1 ”	“1986 7 1 ”	SOLAS II-1/1.1.1
2	1.2			SOLAS II-1/1.1.2
3	1.3.1&1.3.3			SOLAS II-1/1.1.3.1&1.1.3.3
4	1.3.2	“ ” “2009 1 1 ”	“1986 7 1 ”	SOLAS II-1/1.1.3.2
5	1.3.4	“ ” A/R		MSC/Circ.650
6	2	“2009 1 1 ”	“1986 7 1 ”	SOLAS II-1/1.2
		2009 1 1 MSC.1(XLV) MSC 80	MSC.1(XLV)	
7	3	“ ”	“1986 7 1 ”	SOLAS II-1/1.3
		“MSC/Circ.650 ” “MSC/Circ.609 1974 SOLAS -1/1.3 ”		
8	4			SOLAS II-1/1.4
9	5			SOLAS II-1/1.5
2				
10	1	“ L_s ”		SOLAS II-1/25-2.2.1
11	2	“ ”		SOLAS II-1/25-2.2.2
12	3	“ ”		SOLAS II-1/25-2.2.3
13	4	“ ”		SOLAS II-1/25-2.2.4
14	5	“ L ”	“ ” “ ”	SOLASII-1/2.2 ICLL-1966
15	6	“ ”		ICLL-1966

	SOLAS 2009	SOLAS 2009	SOLAS II-1	SOLAS II-1
16	7	" "		ICLL-1966
17	8	" B " " "	" "	SOLAS II-1/2.3&25-2.3
18	9	" d " " "	" "	SOLAS II-1/2.4&25-2.4
19	10	" d_s " " "	" "	SOLAS II-1/2.1.1&2.1.2 SOLAS II-1/25-2.1.2
20	11	" d_l " " "		
21	12	" d_p " " " " " " " 60%	" d_p " " " " " 60%	SOLAS II-1/25-2.1.3
22	13	" " " "		
23	14	2.7 " μ " II-1/25-2.5		SOLAS II-1/25-2.5
24	15	" " " "	" "	SOLAS II-1/2.8
25	16	" "		SOLAS II-1/2.11
26	17	" " " "		
27	18	" "		
28	19	(Ls)		SOLAS II-1/2.5

	SOLAS 2009	SOLAS 2009	SOLAS II-1	SOLAS II-1
		8 B-2		
29	20	“ ”		SOLAS II-1/3.21
30	21	“ ”		SOLAS II-1/3.22
31	22	“ ”		SOLAS II-1/2.12
32	23	“ ”		SOLAS II-1/2.13
33	24	“ ”		SOLAS II-1/2.14
34	25	“ ”		
35	26	“ ” L		
3 C D E				
36		3.21 “ ” 3.22 “ ” 2.20 2.21		SOLAS II-1/3
3-2 MSC.216(82) 1 2008 7 1				
				SOLAS II-1/3-2
	1	2 4 2008 7 1 500 2009 1 1 2012		
	2	150m MSC.215(82)		
	3	1998 7 1 2 MSC.47(66) II-1/3-2	MSC.47(66) II-1/3-2	SOLAS II-1/3-2
	4	IMO		
B				

	SOLAS 2009	SOLAS 2009	SOLAS II-1	SOLAS II-1
4				
37	1	“ *L* 80m ” “ ” .1 “ B OBO ” “ .7 1988 27 ”	“ 1992 1 1 *Ls* *100m* *1998* *7* *1* *Ls* 80m ”	SOLAS II-1/25-1.1
38	2			SOLAS II-1/25-1.3
39	3	“ L_s ”	“ ( ) ”	SOLAS II-1/6.1
40	4			SOLAS II-1/8.2.2
B-1				
5				
41	1	22.1 5-1.1		SOLAS II-1/22.1
42	2	L ≥ 160m 1% L 50m 2% LCG 0.5%Ls		SOLAS II-1/22.4
43	3			SOLAS II-1/22.5
44	4	LCG 5		SOLAS II-1/22.2
45	5	“ 1 L_s ”	“ 1 L L ”	SOLAS II-1/22.3
46	6			SOLAS II-1/8.7.3
5-1				
47	1	22.1		SOLAS II-1/22.1
48	2.1	GM(KG) “	“ ”	SOLAS II-1/25-8.1.1

	SOLAS 2009	SOLAS 2009	SOLAS II-1	SOLAS II-1
		”		
49	2.2			SOLAS II-1/25-8.1.2
50	2.3	/		SOLAS II-1/25-8.1.3
51	3	±0.5 L_s		
52	4	B-1 GM VCG		
53	5	“GM—— ”		
6		R		
54	1	A_s A_p A_l 0.9R 0.5R		SOLAS II-1/25-3
55	2	R		SOLAS II-1/25-3
7		A		
56	1	A A_s A_p A_l 4:4:2	As Ap 5:5	SOLAS II-1/25-4.2
57	2	A d_s d_p d_l 0.5 L_s		SOLAS II-1/25-4.3
58	3			MSC/Circ.649
59	4	A A		SOLAS II-1/25-4.5
60	5	(0.5B)		SOLAS II-1/25-4.6
61	6			SOLAS II-1/25-4.7&.9
62	7			SOLAS II-1/25-4.8
7-1		p_i		
63	1	p_i II-1/25-5.3.2“ Jmax pi		SOLAS II-1/25-5

	SOLAS 2009	SOLAS 2009	SOLAS II-1	SOLAS II-1
		”		
7-2 s_i				
64	1 6			SOLAS II-1/25-6
7-3				
65	1	“ ”		SOLAS II-1/25-7
66	2	d_s d_p d_l 0.7 0.95	0.7	
67	3	“ ”		
8				
68	1 3	400 36		
8-1				
68	1 2	II-2/21 MSC.1/Circ.1214		
B-2				
9				
69	1			SOLAS II-1/12.1 II-1/12-1.1
70	2	760mm ≤ h = B/20 ≤ 2,000mm	“	SOLAS II-1/12.2 II-1/12-1.2

	SOLAS 2009	SOLAS 2009	SOLAS II-1	SOLAS II-1
			25 ”	
71	3	500mm	460mm	SOLAS II-1/12&12-1.3
72	4			SOLAS II-1/12.4, II-1/12-1.4
73	5	0.5	0.5	SOLAS II-1/12.5
74	6 8			
75	9	B/10 3m B/10 3m		
10				
76	1	2.17 “ ” 2.17 “ ”	“ ”	SOLAS II-1/14.1
77	2	II-1/14.2.2 “ ”		SOLAS II-1/14.2.1
11				
78	1	“ ”	“ ”	SOLAS II-1/14.3

	SOLAS 2009	SOLAS 2009	SOLAS II-1	SOLAS II-1
79	2	10.1 “ ”	“ ”	SOLAS II-1/14.4
80	3	“ 2.4m ” “ ”	“ 2/3 0.9m ” “ ”	SOLAS II-1/14.5
81	4			SOLAS II-1/14.6
12				
82	1	“ 0.05*L* 10m 0.08*L* 0.05L+3 m ” *L*	10.1 “ 5 3 m 5% ” 11.2 “ 5% 10m 8% ”	SOLAS II-1/10.1&11.2
83	2	L		SOLAS II-1/10.2&11.3
84	3			SOLAS II-1/11.4 1
85	4	“ ” “ ”		SOLAS II-1/15.3.1&11.4
86	5.1	15.3.2 11.4		SOLAS II-1/11.4&15.3.2
87	5.2			SOLAS II-1/15.3.3
88	6			SOLAS II-1/10.3&11.5
89	7			SOLAS II-1/10.5&11.6

	SOLAS 2009	SOLAS 2009	SOLAS II-1	SOLAS II-1
90	8			SOLAS II-1/11.7
91	9	“ ”		SOLAS II-1/10.7&11.8
92	10			SOLAS II-1/10.8&11.9
13				
93	1			SOLAS II-1/15.1
94	2.1 2.3			SOLAS II-1/15.2.1~15.2.3
95	3	“ ”		SOLAS II-1/15.3.1.2
96	4	“ ” “ ” “ ”		SOLAS II-1/15.5
	5.1 5.2			SOLAS II-1/15.6.1&15.6.2
	5.3	“ ” “ ”		SOLAS II-1/15.6.1
98	6			SOLAS II-1/15.6.4
99	7.1	7.1.2.3		SOLAS II-1/15.7.1
100	7.2 7.5			SOLAS II-1/15.7.2 15.7.5
101	7.6	“1976 IEC529 ” IEC60529 2003	“ 1 1999 IEC60529 1989 ”	SOLAS II-1/15.7.6
102	7.7&7.8			SOLAS II-1/15.7&15.8
103	8.1~8.3			SOLAS II-1/15.8.1 15.8.3
104	9.1	“ ” “ ”		SOLAS II-1/15.10.1
105	9.2	“ ” 22.6		SOLAS II-1/15.10.2

	SOLAS 2009	SOLAS 2009	SOLAS II-1	SOLAS II-1
106	10	“ ” “ ” 22.5 “ ” “ ” 22.13		SOLAS II-1/15.11
107	11.1	“ ” “ ” “ 19 ” “ ” “ ”	“ ”	SOLAS II-1/15.12.1
108	11.2	“ ” “ ”	“ ”	SOLAS II-1/15.12.2
109	11.3			SOLAS II-1/15.12.3
13-1				
110	1&2			SOLAS II-1/25-9.1&25-9.2
111	3	24.4	“ ”	SOLAS II-1/25-9.3
112	4	24.3	“ ”	SOLAS II-1/25-9.4
113	5			SOLAS II-1/25-9.5
14				
114	1	“ ” “ I/2 (e i) ii) 12 ”	“ I/2 (e i) ii) 12 ”	SOLAS II-1/16.1

	SOLAS 2009	SOLAS 2009	SOLAS II-1	SOLAS II-1
115	2	“ A_d ”	“ A ”	SOLAS II-1/16.2
116	3	“ 2 ” ”		
15				
117	“ ” “ ” “ ” “ ”			
118	1&2			SOLAS II-1/17.1&17.2
119	3.1&3.2			SOLAS II-1/17.3.1&17.3.2
120	4			SOLAS II-1/17.4
121	5.1&5.2			SOLAS II-1/17.6.1&17.6.2
122	6			SOLAS II-1/17.7
123	7			SOLAS II-1/17.8
124	8.1&8.2			SOLAS II-1/17.9.1&17.9.2
	8.3	“ ” “ ”	“ ”	SOLAS II-1/17.9.3
125	8.4	“ ”		SOLAS II-1/10.8,11.9,17.2
	8.5			SOLAS II-1/17.9.4
126	9	“ ” “ ”		SOLAS II-1/17.10.1&17.10.2

	SOLAS 2009	SOLAS 2009	SOLAS II-1	SOLAS II-1
		" "		
	10.1			SOLAS II-1/17.11.1
127	10.2	" " " " " " 22 17		SOLAS II-1/17.11.2
15-1				
128	1			SOLAS II-1/25-10.1
129	2			SOLAS II-1/25-10.2
130	3	" " 24.1		SOLAS II-1/25-10.3
131	4			SOLAS II-1/25-10.5
16				
132	1	" "	" "	SOLAS II-1/18.1
133	1.1	" "		SOLAS II-1/18.1.1
134	1.2	" "		
135	1.3			SOLAS II-1/18.1.2
136	2	1 " " 2	" "	SOLAS II-1/18.2
16-1				
137	1			SOLAS II-1/19.1
138	2	" " " MSC 68		SOLAS II-1/19.2

	SOLAS 2009	SOLAS 2009	SOLAS II-1	SOLAS II-1
		2，3 4 ‘ ’ ”		
139	3	“ ”		SOLAS II-1/19.3
140	4			SOLAS II-1/19.5
17 “ ” “ ”				
141	1	“ ”		SOLAS II-1/20.1
142	2	“ ”		SOLAS II-1/20.2
143	3	“ 1997 7 1 ”		SOLAS II-1/20.3
144	4	“ ” “ ” “ ” “ ” “ ” “ ”		SOLAS II-1/20.4
145	5			SOLAS II-1/20.5
17-1				
146	1.1 1.3			SOLAS II-1/20-2.1.1 20-2.1.3
147	2	“ 1997 7 1 ”		SOLAS II-1/23-2.1
148	3			SOLAS II-1/23-2.2
B-3				
18				
149	1	“ ” “ B-1 ”	“ ”	SOLAS II-1/13.1
150	2	“ P1 P2 P3 ” “ *R* ”	“C.1 C.2 C.3...”	SOLAS II-1/13.2
151	3 7			SOLAS II-1/13.3 13.7

	SOLAS 2009	SOLAS 2009	SOLAS II-1	SOLAS II-1
B-4				
19 23 23-1 23 MSC/Circ.919				
152	1	“ MSC/Circ.919 ”	MSC/Circ.434	SOLAS II-1/23-1.1
153	2			SOLAS II-1/15.9.3
154	3			SOLAS II-1/23-1.3.1
155	4	“ ” “ ”		SOLAS II-1/23-1.3.2
156	5	B-1		
20				
157	1			SOLAS II-1/8.7.4
158	2&3			SOLAS II-1/9.1&9.2
21				
159	1			SOLAS II-1/24.2.1
160	2	“ ” “ ”		SOLAS II-1/24.2.2
161	3			SOLAS II-1/24.3.1
162	4			SOLAS II-1/25.3
22				
163	1	1.2m	1.2m	SOLAS II-1/15.9.1
164	2	1.2m		SOLAS II-1/15.7.1.2.3
165	3&4			SOLAS II-1/15.9.2&15.9.3

	SOLAS 2009	SOLAS 2009	SOLAS II-1	SOLAS II-1
166	5	13.10		SOLAS II-1/15.11
167	6	13.9.2		SOLAS II-1/15.10.2
168	7	“ ” “ ” “ ”		SOLAS II-1/17.10.1
169	8	“ ” “ ” 8.4 “ ” “ ” “ ” 9		SOLAS II-1/20-1.2
	9			20-1.2
170	10			SOLAS II-1/20-1.3
	11			SOLAS II-1/20-1.4
171	12	“paragraph 14” “paragraph 10” “paragraph 13” “paragraph 8&9”		SOLAS II-1/20-1.5
172	13	“ ” “ ”		SOLAS II-1/25.2
173	14			SOLAS II-1/17.3.3.1
	14.1			SOLAS II-1/17.3.3.2
	14.2	“ ” “ ”		SOLAS II-1/17.3.3.3
174	15			SOLAS II-1/17.5
175	16			SOLAS II-1/17.6.3
176	17			SOLAS II-1/17.11.2
22-1 2010 1 1 36				
		2010 1 1 36 IMO		
23				
177	1&2			SOLAS II-1/23-2.3&23-2.4

	SOLAS 2009	SOLAS 2009	SOLAS II-1	SOLAS II-1
178	3	“ ” “ ”	“ ”	SOLAS II-1/20-2.2.2
179	4&5			SOLAS II-1/20-2.1.5&20-2.1.6
180	6			SOLAS II-1/20-2.2.3
181	7&8			SOLAS II-1/20-4.1&20-4.2
182	9			SOLAS II-1/20-3
24				
183	1	“ ”		SOLAS II-1/25-10.3 1
184	2	“paragraph 3” “paragraph 1”		SOLAS II-1/25-10.4
185	3	“opening such doors” “opening such doors or ramps”		SOLAS II-1/25-9.4
186	4	“ ”		SOLAS II-1/25-9.3
25				
187	1	“2007 1 1 2009 12 31 ”	2007 1 1 2007 1 1 ”	SOLAS II-1/23-3.1
188	2	*L*	*L* 2 “ ” 80m 19978 7 1 100m 25 Ls	SOLAS II-1/23-3.3
189	3			SOLAS II-1/23-3.4

	SOLAS 2009	SOLAS 2009	SOLAS II-1	SOLAS II-1
190	4			SOLAS II-1/23-3.5
C				
35-1				
191	1	“ 2009 1 1 ”		SOLAS II-1/21
192	2			SOLAS II-1/21.1
193	3.1			SOLAS II-1/21.2.1
194	3.2	II-1/6 “ ” “ ”		SOLASII-1/2.9 SOLAS II-1/6.3.1&6.3..2 SOLAS II-1/21.2.2
195	3.3 3.8			SOLAS II-1/21.2.3-21.2.8
	3.9			SOLAS II-1/21.2.9
196	3.10 3.12			SOLAS II-1/21.2.10-21.2.12
196				SOLAS II-1/21.3
D				
41				
	1 5			
	6	30 2010 7 1		
F 2010 7 1				
55				
191	1			SOLAS II-1/21
	2	II-1 C D E		SOLAS II-1/21

	SOLAS 2009	SOLAS 2009	SOLAS II-1	SOLAS II-1
	3	MSC.1/Circ.1212 C D E		SOLAS II-1/21
	4	MSC.1/Circ.1212 3		SOLAS II-1/21
	5	IMO		SOLAS II-1/21
	6			SOLAS II-1/21

4 SOLAS II-1

	SOLAS II-1	SOLAS 2009	
A			
1		1	
2		2	
3	C D E	3	
A-1			
3-1		3-1	
3-2		3-2	
3-3		3-3	
3-4		3-4	
3-5		3-5	
3-6		3-6	
3-7		3-7	
3-8		3-8	
B			
4			
5		7-3	
6			
7		8	
8			
8-1			
8-2	400		
8-3	400		
9		20	
10		12	
11		12	
12		9	
12-1		9	
13		18	
14		10 11	
15		13-1	
16		14	
17		15	
17-1			

	SOLAS II-1	SOLAS 2009	
18		16	
19		16-1	
20		17	
20-1		22	
20-2		23	
20-3		23	
20-4		23	
21		35-1	
22		5 5-1	
23		19	
23-1		19	
23-2		17-1 23	
23-3		25	
24		21	
25		21	
B-1			
25-1		4	
25-2		2	
25-3	R	6	
25-4	A	7	
25-5	p_i	7-1	
25-6	s_i	7-2	
25-7		7-3	
25-8		5-1	
25-9		13-1 24	
25-10		15-1 24	

3

IMO

		SOLAS II-1	SOLAS 2009
MSC/Circ.541	Guidance Notes on the integrity of flooding boundaries above the bulkhead deck of passenger ships for proper application of regulations II-1/8 and 20, para.1, of the 1974 SOLAS Convention as amended 1974 SOLAS -1/8 20 1	II-1/20.1 II-1/20-1.1	II-1/17.1
MSC/Circ.651	Interpretations of regulations of part B-1 of SOLAS Chapter II-1 (SOLAS reg II-1/25-7, reg II-1/25-8, reg II-1/25-9) SOLAS II-1 B-I	II-1/25-9.4	II-1/13-1.4
MSC/Circ.734	Interpretations Of Phrases On Human Performance Criteria In SOLAS Chapter II-1 SOLAS II-1	II-1/17.9.3—“ ” II-1/17.11.2—“ ”	II-1/15.8.3 II-1/15.10.2
MSC/Circ.855	Interpretation of the position of the forward perpendicular for the purpose of SOLAS Regulation II-1/10 SOLAS II-1/10	II-1/10	II-1/2.7 II-1/12
MSC/Circ.998	IACS unified interpretation regarding timber deck cargo in the context of damage stability requirements IACS	B-1	B-1
MSC.1/Circ.1245	GUIDELINES FOR DAMAGE CONTROL PLANS AND INFORMATION TO THE MASTER		19.1
MSC.1/Circ.1158	Unified interpretation of SOLAS Chapter II-1 SOLAS II-1	II-1/22	II-1/5
MSC.1/Circ.1284	UNIFIED INTERPRETATIONS OF SOLAS REGULATIONS II-1/1.3 AND II-1/3-6 SOALSII-1/1.3 II-1/3-6	II-1/1.3.1	II-1/1.3
MSC.1/Circ.1291			II-1/22-1

	GUIDELINES FOR FLOODING DETECTION SYSTEMS ON PASSENGER SHIPS		

IACS UI

IACS UI		SOLAS II-1	SOLAS 2009
SC93	Enclosure of stern tubes on cargo ships	II-1/11.9	II-1/12.10
SC155	Lightweight check in lieu of inclining test	II-1/22	II-1/5
SC156	Doors in watertight bulkheads of cargo shipsand passenger ships	II-1/15 II-1/25-9 II-1/25-10	II-1/22 II-1/13 II-1/13-1, II-1/15-1
SC161	Timber deck cargo in the context of damage stability requirements	SOLAS	
SC224	Measurement of Distances	II-1/25-2.2.1	II-1/2.1
SC225	The occupied volume by flooded water of a flooded space in the SOLAS Chapter II-1 (Regulation 2(14)) II-1/2.14	II-1/25-2.5	II-1/2.14
SC226	IACS Unified Interpretations (UI) for the application of SOLAS regulations to conversions of Single Hull Tanker to Double Hull Tanker or Bulk Carrier/Ore Carrier /	II-1/1.3.1	II-1/1.3