

### STIX CALCULATION

BOAT	DNEPR S-11				
<b>Intended Category A-B-C-D</b>	A	A =			PASS
LH (m)	11	VC (m?)			
LWL (m)	9,97	FM (m)			
BH (m)	3,69	HD (m)			
BWL (m)	3,05	VC (m?)			
CREW LIMIT (# pers)	8	Min.Hd (m)	0,71		
GZ 90?(m)	0,47	T (m)	0,9		
ASP (m?)	61				
HCE (m)	6,9				
HLP (-m)	-0,6				
Angle of downflooding (Adh)	113,0		Min Adh	PASS	
Angle of vanishing stability (Avs)	125,0		Min Avs	PASS	
Area under GZ-curve to Adh (m.deg)	57,0				
Area under GZ-curve to Avs (m.deg)	58,6				
<b>LIGHT SHIP CONDITION</b>	Mass (kg)	X (m)		Z (m)	
LIGHT SHIP MASS (Mlcc) (kg)	5636,0	5,8	32689	0,08	450,9
<b>MINIMUM SAILING CONDITION</b>					
Light ship (kg)	5636,0	5,8	32689	0,08	450,9
Crew min. (kg)	150,0	8,2	1230	1,35	202,5
Life raft (kg)	76,0	9,74	740,24	1,36	103,4
Basic equipment (kg)	200,0	6,8	1360	0,8	160
MIN. SAILING MASS (Mmsc)	6062,0	0,8975	9004,8	0,898	229,2
<b>MAXIMUM LOAD CONDITION</b>	Mass (kg)	X (m)		Z (m)	
Light ship (kg)	5636,0	5,8	32689	0,08	450,9
Crew min. (kg)	150,0	8,2	1230	1,35	202,5
Crew (#pers) (kg)	300,0	4,4	1320	0,7	210
Life raft (kg)	76,0	9,74	740,24	1,36	103,4
Basic equipment (kg)	200,0	6,8	1360	0,6	120
Stores (kg)	500,0	5	2500	0,2	100
Water (kg)	160,0	4,2	672	-0,15	-24
Water (kg)	160,0	8,2	1312	-0,15	-24
Fuel (kg)	150,0	8,2	1230	-0,15	-22,5
Hold (kg)	100,0	3,7	370	-0,1	-10
Personal gear (kg)	150,0	5,8	870	0,2	30
LOADED DISPL. MASS (Mmsc)	7582,0	0,985	11401	0,948	278,1
LOADED VOLUME (m?)	7397,1				
MAXIMUM LOAD (kg)	1946,0				
MAX. Load ex. Fule, Water (kg)	1476,0				
STIX 12217-2 DIS				LBS	10,31
Dynamic Stability Factor (FDS)	1,1				
Inversion Recovery Factor (FIR)	1,0			FR	3,38
Knockdown Recovery Factor (FKR)	1,2			FL	0,99
Displacement Length Factor (FDL)	1,0			FB	2,15
Beam Displacement Factor (FBD)	1,0				
Wind Moment Factor (FWM)	1,0			Assigned category = A	
Downflooding Factor (FDF)	1,3			Wave height max > 4m	
<b>STIX</b>	<b>39</b>			Windspeed max > Force 8	

Design Categories	A	B	C	D
STIX Lower limits	32	23	14	5

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Изм. Лист N докум Подп. Дата