# Specification of Monotype-XV Accepted 1993

3. CONSTRUCTION AND MEASUREMENT RULES		
	MAX	MIN
ELAGE		
Length overall	7465	7435
Distance from bow to mast step pivoting point(middle		
hole of the ball)	1380	1350
Distance from bow to front of the first cockpit	2655	2625
Distance from bow to the front of the second cockpit	4505	4475
Distance from bow to the end of the second cockpit (to the		
point of intersection of seat back and deck)	5615	5585
Distance from bow to pivot axis of steering runner	7165	7135
Thickness of plywood details		
Cockpit bottom, bulkhead, sides	6,4	5,6
Deck between cockpits	opt.	4,0
In other places	opt.	3,0
Not more than six additional beams should be used for bo	w	
deck reinforcement and two additional floors for bow bott	om.	
Design of the mast plank(strengthening construction between	een	
deck and bottom) is optional.		
Minimum cross-section of bottom stringers is 25x25mm.		
Minimum cross-section of deck stringers is 25x35mm.		
Deck stringers are reinforced in cockpit part with stringer	·,	
but the thickness of deck stringer and reinforcement shoul	d	
not be less than 60mm.		
Fuselage shall be constructed of wood only and edges can	be covere	ed once with
•		
	Length overall Distance from bow to mast step pivoting point(middle hole of the ball) Distance from bow to front of the first cockpit Distance from bow to the front of the second cockpit Distance from bow to the end of the second cockpit (to the point of intersection of seat back and deck) Distance from bow to pivot axis of steering runner Thickness of plywood details Cockpit bottom, bulkhead, sides Deck between cockpits In other places Not more than six additional beams should be used for both deck reinforcement and two additional floors for bow both Design of the mast plank(strengthening construction between the deck and bottom) is optional. Minimum cross-section of bottom stringers is 25x25mm. Minimum cross-section of deck stringers is 25x35mm. Deck stringers are reinforced in cockpit part with stringer but the thickness of deck stringer and reinforcement shoul not be less than 60mm. Fuselage shall be constructed of wood only and edges can	Length overall 7465 Distance from bow to mast step pivoting point(middle hole of the ball) 1380 Distance from bow to front of the first cockpit 2655 Distance from bow to the front of the second cockpit 4505 Distance from bow to the end of the second cockpit (to the point of intersection of seat back and deck) 5615 Distance from bow to pivot axis of steering runner 7165 Thickness of plywood details Cockpit bottom, bulkhead, sides 6,4 Deck between cockpits opt. In other places opt. Not more than six additional beams should be used for bow deck reinforcement and two additional floors for bow bottom. Design of the mast plank(strengthening construction between deck and bottom) is optional. Minimum cross-section of bottom stringers is 25x25mm. Minimum cross-section of deck stringers is 25x35mm. Deck stringers are reinforced in cockpit part with stringer, but the thickness of deck stringer and reinforcement should

All other dimensions should be taken from the official plan.

#### 3.2 RUNNER PLANK

3.2.1	Length overall	4300	4280
3.2.2	Width under fuselage	258	252
3.2.3	Thickness under fuselage	103	90
3.2.4	Width at ends	228	222
3.2.5	Thickness at ends	43	37
3.2.6	Distance from centreline to shroud plate (stay tang)	1250	1230
3.2.7	Curve	35	

- 3.2.8 Runner plank should be constructed of softwood. Fibreglass is not permitted.
- 3.2.9 Construction of runner plank is optional.
- 3.2.10 Fixing of runner plank to fuselage is optional except bolts should not reeve the runner plank.

#### *3.3 MAST*

3.3.1	Length overall(including hardware)	7250	7230
3.3.2	Width - measured 400mm from mast heel 4400mm on	183	177
3.3.3	Thickness - measured 400mm from mast heel 4400mm on	75	69
3.3.4	Distance from mast heel to sail mark	7000	6990
3.3.5	Width at sail mark	85	75
3.3.6	Thickness at sail mark	56	46
3.3.7	Distance from mast heel to mast hound	3930	3830
3.3.8	Distance from mast heel to lower crosspiece	2085	2065
3.3.9	Distance from mast heel to upper crosspiece	3930	3830
3.3.10	Length of lower cross-piece	240	210
3.3.11	Length of upper cross-piece	500	450
3.3.12	The bottom of the mast must be fitted with a socket		
	that will pivot freely on the mast step deck ball.		
3.3.13	Halyard should be out of mast and using of stopper at		
	masthead is prohibited.		
3.3.14	Mast shall be constructed of softwood. Fiberglass is not pe	ermitted.	
3.3.15	Mast must be hollow.		
3.3.16	The profile of cross-section of mast must assume a		
	reasonable fair and continuous curve.		

#### **3.4 BOOM**

3.4.1	Length overall	4500	4480
3.4.2	Width(in the area 800mm from the front edge		
	3200mm on towards bow)	123	117
3.4.3	Thickness	49	43
3.4.4	Distance between the front edge of the sail mark		
	and aft edge of the mast	4400	4390
3.4.5	Boom must be constructed of softwood.		
3.4.6	Boom must be hollow.		
3.4.7	Fixing of boom to mast is optional.		
3.4.8	The profile of cross-section of boom must assume a		
	reasonable fair and continuous curve.		
3.4.9	For repairs of mast, boom and runner plank fiberglass,		
	with less length than 500mm, is permitted.		

### 3.5 RUNNERS

3.5.1.1       Side runners       11       9         3.5.1.1.2       Plate thickness       1150       1130         3.5.1.1.3       Plate length       1250       1130         3.5.1.1.4       Distance between the front edge and bolt hole centre of the bolt hole       785       755         3.5.1.1.5       Distance from runner upper edge to the centre of the bolt hole       32       28         3.5.1.2       Steering runner       11       9         3.5.1.2.1       Plate thickness       11       9         3.5.1.2.2       Plate length       910       810         3.5.1.2.3       Plate height       175       140         3.5.1.2.4       Distance between the front edge and centre of the bolt hole       555       525         3.5.1.2.5       Distance from runner upper edge to the centre of the bolt hole       32       28         3.5.1.2.5       Distance from runner useembly should not be less than 50% of the runner length and height of the assembly should not be less than 50% of the runner length and height of the assembly should not be less than 50% of the runner length and height of the assembly should not be less than 50% of the runner section profile is optional.       3.5.4.1       Hard wood shall be used(oak), fiberglass may be added.       3.5.4.2       48         3.5.4.3       Height       175       165	3.5.1	Steel plate type		
3.5.1.1.2       Plate length       1250       1130         3.5.1.1.3       Plate height       175       165         3.5.1.1.4       Distance between the front edge and bolt hole centre of the bolt hole       32       755         3.5.1.1.5       Distance from runner upper edge to the centre of the bolt hole       32       28         3.5.1.2.1       Plate thickness       11       9         3.5.1.2.2.       Plate length       910       810         3.5.1.2.3       Plate height       175       140         3.5.1.2.4       Distance between the front edge and centre of the bolt hole       555       525         3.5.1.2.5       Distance from runner upper edge to the centre of the bolt hole       32       28         3.5.1.2.5       Distance from runner upper edge to the centre of the bolt hole       32       28         3.5.1.2.5       Distance from runner assembly should not be less than 50% of the runner length and height of the assembly should not be less than 60mm.       32       28         3.5.4       Hurd wood shall be used(oak), fiberglass may be added.       3.5.4.2       40       40       40         3.5.4.3.1       Length       1535       1485       45       45       46         3.5.4.3.2       Height       175       165       49				
3.5.1.1.3       Plate height       175       165         3.5.1.1.4       Distance between the front edge and bolt hole centre of the bolt hole       32       28         3.5.1.1.5       Distance from runner upper edge to the centre of the bolt hole       32       28         3.5.1.2.1       Plate thickness       11       9         3.5.1.2.2       Plate length       910       810         3.5.1.2.3       Plate height       175       140         3.5.1.2.4       Distance between the front edge and centre of the bolt hole       555       525         3.5.1.2.5       Distance from runner upper edge to the centre of the bolt hole       32       28         3.5.1.2.5       Distance from runner assembly should not be less than 50m.       555       525         3.5.1.2.5       Distance from runner length and height of the assembly should not be less than 50% of the runner length and height of the assembly should not be less than 50% of the runner length and height of the assembly should not be less than 50% of the runner section profile is optional.         3.5.4.1       Hard wood shall be used(oak), fiberglass may be added.         3.5.4.2       Height       1535       1485         3.5.4.3.1       Length       1535       1485         3.5.4.3.2       Height       175       165         3.5.4.3.3	3.5.1.1.1		11	-
3.5.1.1.4       Distance between the front edge and bolt hole centre of the bolt hole       32       28         3.5.1.2.5       Steering runner       31       28         3.5.1.2.1       Plate thickness       11       9         3.5.1.2.2       Plate thickness       11       9         3.5.1.2.3       Plate height       175       140         3.5.1.2.4       Distance between the front edge and centre of the bolt hole       555       525         3.5.1.2.5       Distance from runner upper edge to the centre of the bolt hole       32       28         3.5.2.1.5       Distance from runner assembly should not be less than 50% of the runner length and height of the assembly should not be less than 50% of the runner length and height of the assembly should not be less than 60mm.       32       28         3.5.3       Type of steel plate is optional.       3.5.4       Wood type runners         3.5.4.1       Hard wood shall be used(oak), fiberglass may be added.       3.5.4.2       350mm from the front edge up to 100mm from the back edge runner section profile is optional.         3.5.4.3       Side runners       49       46         3.5.4.3.1       Length       175       165         3.5.4.3.2       Height       175       165         3.5.4.3.3       Thickness(chock area)       49       46	3.5.1.1.2	Plate length	1250	1130
3.5.1.1.5       Distance from runner upper edge to the centre of the bolt hole       32       28         3.5.1.2       Steering runner       35.1.2.1       Plate thickness       11       9         3.5.1.2.1       Plate theight       175       140         3.5.1.2.2       Plate length       175       140         3.5.1.2.4       Distance between the front edge and centre of the bolt hole       555       525         3.5.1.2.5       Distance from runner upper edge to the centre of the bolt hole       32       28         3.5.1.2.5       Distance from runner assembly should not be less than 50% of the runner length and height of the assembly should not be less than 50% of the runner length and height of the assembly should not be less than 60mm.       3.5       48         3.5.4       Wood type runners       3.5.4       40       40       40       40       40       40       40       40       40       40       40       46       3.5.4.3       1485       3.5.4.3       1485       3.5.4.3.1       1485       3.5.4.3.1       1485       3.5.4.3.2       1485       3.5.4.3.3       1485       3.5.4.3.3       1485       3.5.4.3.3       1485       3.5.4.3.4       1535       1485       3.5.4.3.4       1535       1485       3.5.4.3.5       1535       1485       3.5.4.3.	3.5.1.1.3	Plate height	175	165
3.5.1.2         Steering runner           3.5.1.2.1         Plate thickness         11         9           3.5.1.2.2         Plate thickness         11         9           3.5.1.2.3         Plate length         910         810           3.5.1.2.4         Distance letween the front edge and centre of the bolt hole         555         525           3.5.1.2.5         Distance from runner upper edge to the centre of the bolt hole         32         28           3.5.1.2.5         Distance from runner assembly should not be less than 50% of the runner length and height of the assembly should not be less than 50% of the runner length and height of the assembly should not be less than 60mm.         3.5.4         Wood type runners           3.5.4         Wood type runners         3.5.4         Wood type runners         40         40           3.5.4.1         Hard wood shall be used(oak), fiberglass may be added.         3.5.4.1         3.5.4.2         350mm from the front edge up to 100mm from the back edge runner section profile is optional.         3.5.4.3         1485         3.5.4.3.1         1485         3.5.4.3.1         165         3.5.4.3.1         165         3.5.4.3.1         165         3.5.4.3.1         165         3.5.4.3.1         165         3.5.4.3.1         165         3.5.4.3.1         165         3.5.4.3.1         165         3.5.4.3.1	3.5.1.1.4	Distance between the front edge and bolt hole centre	785	755
3.5.1.2.1       Steering runner         3.5.1.2.1       Plate thickness       11       9         3.5.1.2.2       Plate length       175       140         3.5.1.2.3       Plate height       175       140         3.5.1.2.4       Distance between the front edge and centre of the bolt hole       555       525         3.5.1.2.5       Distance from runner upper edge to the centre of the bolt hole       32       28         3.5.2       Length of the runner assembly should not be less than 50% of the runner length and height of the assembly should not be less than 60mm.       32       28         3.5.3       Type of steel plate is optional.       3.5.4       Wood type runners         3.5.4.1       Hard wood shall be used(oak), fiberglass may be added.       3.5.4.2       350mm from the front edge up to 100mm from the back edge runner section profile is optional.         3.5.4.3       Side runners       3.5.4.3.1       Length       1535       1485         3.5.4.3.1       Length       175       165         3.5.4.3.2       Height       175       165         3.5.4.3.3       Thickness(chock area)       49       46         3.5.4.3.5       Distance between front edge of the runner and bolt hole centre of the bolt hole       32       28         3.5.4.4       Ste	3.5.1.1.5	Distance from runner upper edge to the centre		
3.5.1.2.1       Plate thickness       11       9         3.5.1.2.2       Plate length       910       810         3.5.1.2.3       Plate height       175       140         3.5.1.2.4       Distance between the front edge and centre of the bolt hole       555       525         3.5.1.2.5       Distance from runner upper edge to the centre of the bolt hole       32       28         3.5.1.2.5       Length of the runner assembly should not be less than 50% of the runner length and height of the assembly should not be less than 60mm.       3.5.4       4         3.5.4       Wood type runners       3.5.4.1       Hard wood shall be used(oak), fiberglass may be added.       3.5.4.2       3.5.4.1       Hard wood shall be used(oak), fiberglass may be added.         3.5.4.2       350mm from the front edge up to 100mm from the back edge runner section profile is optional.       3.5.4.3       1485         3.5.4.3.1       Length       1535       1485         3.5.4.3.2       Height       175       165         3.5.4.3.3       Thickness(chock area)       49       46         3.5.4.3.4       Distance between front edge of the runner and bolt hole centre of the bolt hole       32       28         3.5.4.3.5       Distance from runner upper edge to the centre of the bolt hole       32       28         3.		of the bolt hole	32	28
3.5.1.2.2       Plate length       910       810         3.5.1.2.3       Plate height       175       140         3.5.1.2.4       Distance between the front edge and centre of the bolt hole       555       525         3.5.1.2.5       Distance from runner upper edge to the centre of the bolt hole       32       28         3.5.1.2.5       Length of the runner assembly should not be less than 50% of the runner length and height of the assembly should not be less than 60mm.       32       28         3.5.3       Type of steel plate is optional.       3.5.4       Wood type runners       48       48         3.5.4.1       Hard wood shall be used(oak), fiberglass may be added.       3.5.4.2       350mm from the front edge up to 100mm from the back edge runner section profile is optional.       49       46         3.5.4.3       Side runners       1535       1485         3.5.4.3.1       Length       1535       1485         3.5.4.3.2       Height       175       165         3.5.4.3.3       Thickness(chock area)       49       46         3.5.4.3.5       Distance between front edge of the runner and bolt hole centre of the bolt hole       32       28         3.5.4.4.3       Steering runner       3.5.4.4.1       Length       1115       1065         3.5.4.4.1	3.5.1.2	Steering runner		
3.5.1.2.3       Plate height       175       140         3.5.1.2.4       Distance between the front edge and centre of the bolt hole       555       525         3.5.1.2.5       Distance from runner upper edge to the centre of the bolt hole       32       28         3.5.2       Length of the runner assembly should not be less than 50% of the runner length and height of the assembly should not be less than 60mn.       35       35         3.5.3       Type of steel plate is optional.       35.4.1       40       40       40         3.5.4.1       Hard wood shall be used(oak), fiberglass may be added.       35.4.2       350mm from the front edge up to 100mm from the back edge runner section profile is optional.       35.4.3       40       48         3.5.4.3.1       Length       1535       1485         3.5.4.3.2       Height       175       165         3.5.4.3.3       Thickness(chock area)       49       46         3.5.4.3.4       Distance between front edge of the runner and bolt hole centre of the bolt hole       32       28         3.5.4.3.5       Distance from runner upper edge to the centre of the bolt hole       32       28         3.5.4.4.1       Length       1115       1065         3.5.4.4.2       Height       150       140         3.5.4.4.3       Thic	3.5.1.2.1	Plate thickness	11	9
3.5.1.2.4       Distance between the front edge and centre of the bolt hole       555       525         3.5.1.2.5       Distance from runner upper edge to the centre of the bolt hole       32       28         3.5.2       Length of the runner assembly should not be less than 50% of the runner length and height of the assembly should not be less than 60mm.       50% of the runner length and height of the assembly should not be less than 60mm.         3.5.3       Type of steel plate is optional.       3.5.4.1       4.5.4.1       4.5.4.1       4.5.4.1       4.5.4.1       4.5.4.1       4.5.4.1       4.5.4.1       4.5.4.1       4.5.4.1       4.5.4.1       4.5.4.3       4.5.4.3.1       4.5.4.3.1       4.5.4.3.1       4.5.4.3.1       4.5.4.3.1       4.5.4.3.3       4.5.4.3.3       4.5.4.3.3       4.5.4.3.3       4.5.4.3.3       4.5.4.3.4       4.5.4.3.4       4.5.4.3.4       4.5.4.3.4       4.5.4.3.4       4.5.4.3.4       4.5.4.3.4       4.5.4.3.4       4.5.4.3.4       4.5.4.3.4       4.5.4.4.1       4.5.4.4.1       4.5.4.4.1       4.5.4.4.1       4.5.4.4.1       4.5.4.4.1       4.5.4.4.1       4.5.4.4.1       4.5.4.4.2       4.5.4.4.4       4.5.4.4.4       4.5.4.4.4       4.5.4.4.4       4.5.4.4.4       4.5.4.4.4       4.5.4.4.4       4.5.4.4.4       4.5.4.4.4       4.5.4.4.4       4.5.4.4.4       4.5.4.4.4       4.5.4.4.4       4.5.4.4.4	3.5.1.2.2	Plate length	910	810
3.5.1.2.5       Of the bolt hole       555       525         3.5.1.2.5       Distance from runner upper edge to the centre of the bolt hole       32       28         3.5.2       Length of the runner assembly should not be less than 50% of the runner length and height of the assembly should not be less than 60mm.       3.5.3       Type of steel plate is optional.         3.5.4       Wood type runners       3.5.4.1       Hard wood shall be used(oak), fiberglass may be added.         3.5.4.2       350mm from the front edge up to 100mm from the back edge runner section profile is optional.       53         3.5.4.3       Side runners       1535       1485         3.5.4.3.1       Length       155       165         3.5.4.3.2       Height       175       165         3.5.4.3.3       Thickness(chock area)       49       46         3.5.4.3.4       Distance between front edge of the runner and bolt hole centre of the bolt hole       32       28         3.5.4.4.5       Steering runner         3.5.4.4.1       Length       1115       1065         3.5.4.4.2       Height       150       140         3.5.4.4.3       Thickness (chock area)       49       46         3.5.4.4.2       Height       150       140         3.5.4.4.3       Thickne	3.5.1.2.3	Plate height	175	140
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3.5.1.2.5 Distance from runner upper edge to the centre of the bolt hole  3.5.2 Length of the runner assembly should not be less than 50% of the runner length and height of the assembly should not be less than 60mm.  3.5.3 Type of steel plate is optional.  3.5.4 Wood type runners  3.5.4.1 Hard wood shall be used(oak), fiberglass may be added.  3.5.4.2 350mm from the front edge up to 100mm from the back edge runner section profile is optional.  3.5.4.3 Side runners  3.5.4.3.1 Length 1535 1485  3.5.4.3.2 Height 175 165  3.5.4.3.3 Thickness(chock area) 49 46  3.5.4.3.4 Distance between front edge of the runner and bolt hole centre of the bolt hole 32 28  3.5.4.4 Steering runner  3.5.4.4.1 Length 1115 1065  3.5.4.4.2 Height 150 140  3.5.4.3 Thickness (chock area) 49 46  3.5.4.4 Distance from the front edge of the runner			555	525
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3.5.2 Length of the runner assembly should not be less than 50% of the runner length and height of the assembly should not be less than 60mm. 3.5.3 Type of steel plate is optional. 3.5.4 Wood type runners 3.5.4.1 Hard wood shall be used(oak), fiberglass may be added. 3.5.4.2 350mm from the front edge up to 100mm from the back edge runner section profile is optional. 3.5.4.3 Side runners 3.5.4.3.1 Length 1535 1485 3.5.4.3.2 Height 175 165 3.5.4.3.3 Thickness(chock area) 49 46 3.5.4.3.4 Distance between front edge of the runner and bolt hole centre 935 885 3.5.4.3.5 Distance from runner upper edge to the centre of the bolt hole 32 28 3.5.4.4 Steering runner 3.5.4.4.1 Length 1115 1065 3.5.4.4.2 Height 150 140 3.5.4.4.3 Thickness (chock area) 49 46 3.5.4.4.4 Distance from the front edge of the runner			32	28
50% of the runner length and height of the assembly should not be less than 60mm.         3.5.3       Type of steel plate is optional.         3.5.4       Wood type runners         3.5.4.1       Hard wood shall be used(oak), fiberglass may be added.         3.5.4.2       350mm from the front edge up to 100mm from the back edge runner section profile is optional.         3.5.4.3       Side runners         3.5.4.3.1       Length       1535       1485         3.5.4.3.2       Height       175       165         3.5.4.3.3       Thickness(chock area)       49       46         3.5.4.3.4       Distance between front edge of the runner and bolt hole centre of the bolt hole       32       28         3.5.4.3.5       Distance from runner upper edge to the centre of the bolt hole       32       28         3.5.4.4       Steering runner         3.5.4.4.1       Length       1115       1065         3.5.4.4.2       Height       150       140         3.5.4.4.3       Thickness (chock area)       49       46         3.5.4.4.4       Distance from the front edge of the runner       49       46				
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3.5.4.3       Side runners         3.5.4.3.1       Length       1535       1485         3.5.4.3.2       Height       175       165         3.5.4.3.3       Thickness(chock area)       49       46         3.5.4.3.4       Distance between front edge of the runner and bolt hole centre of the bolt hole centre of the bolt hole       935       885         3.5.4.3.5       Distance from runner upper edge to the centre of the bolt hole       32       28         3.5.4.4       Steering runner       3.5.4.4.1       1115       1065         3.5.4.4.2       Height       150       140         3.5.4.4.3       Thickness (chock area)       49       46         3.5.4.4.4       Distance from the front edge of the runner				
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3.5.4.3.4       Distance between front edge of the runner and bolt hole centre       935       885         3.5.4.3.5       Distance from runner upper edge to the centre of the bolt hole       32       28         3.5.4.4       Steering runner       35.4.4.1       1115       1065         3.5.4.4.2       Height       150       140         3.5.4.4.3       Thickness (chock area)       49       46         3.5.4.4.4       Distance from the front edge of the runner		_	49	46
3.5.4.3.5       Distance from runner upper edge to the centre of the bolt hole       32       28         3.5.4.4       Steering runner       32       28         3.5.4.4.1       Length       1115       1065         3.5.4.4.2       Height       150       140         3.5.4.4.3       Thickness (chock area)       49       46         3.5.4.4.4       Distance from the front edge of the runner       49       46				
3.5.4.3.5       Distance from runner upper edge to the centre of the bolt hole       32       28         3.5.4.4       Steering runner       35.4.4.1       1115       1065         3.5.4.4.2       Height       150       140         3.5.4.4.3       Thickness (chock area)       49       46         3.5.4.4.4       Distance from the front edge of the runner			935	885
of the bolt hole       32       28         3.5.4.4       Steering runner          3.5.4.4.1       Length       1115       1065         3.5.4.4.2       Height       150       140         3.5.4.4.3       Thickness (chock area)       49       46         3.5.4.4.4       Distance from the front edge of the runner	3.5.4.3.5		,	
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3.5.4.4.1       Length       1115       1065         3.5.4.4.2       Height       150       140         3.5.4.4.3       Thickness (chock area)       49       46         3.5.4.4.4       Distance from the front edge of the runner       49       46	3.5.4.4			
3.5.4.4.2       Height       150       140         3.5.4.4.3       Thickness (chock area)       49       46         3.5.4.4.4       Distance from the front edge of the runner       49       46			1115	1065
3.5.4.4.3 Thickness (chock area) 49 46 3.5.4.4.4 Distance from the front edge of the runner				
3.5.4.4.4 Distance from the front edge of the runner		9		
			.,	, ,
to bolt hole centre 665 615	J.J. 11 11 1	· · · · · · · · · · · · · · · · · · ·	665	615
3.5.4.4.5 Distance from the upper edge of the runner	3.5445		303	010
to the centre of the bolt hole 32 28	5.5. 1.7.5		32	28
· ·	3.5.5	The front upper edge of the runner should have a 15mm ra		20

3.5.6	Runner base and cut		
3.5.6.1	Longitudional distance from pivot axis of steering runner to	pivot	
	axis of side runner	4910	4890
3.5.6.2	Lateral distance between side runner edges below		
	pivot axis (to be measured in sailing trim excluding		
	ballast and sailors)	4059	4037
3.6 SAIL			
3.6.1	Material may be nylon, cotton or dacron.		
3.6.2	Length of hoist	6850	6600
3.6.3	Length of foot	4400	4220
3.6.4	Length of leech	6800	6600
3.6.5	There shall be two girth measurements including bolt		
	rope to be determined by folding the sail in quarters.		
	Top girth measurement 1320mm or less.		
	Middle girth measurement 2450mm or less.		
3.6.6	The sail shall be constructed with five batten pockets.		
	All five batten pockets shall be full length, extending from the	he leech i	to bolt rope.
3.6.7	Batten pockets shall lie in horizontal position.		
3.6.8	Batten material and structural characteristics are optional.		
3.6.9	Batten pockets width 85mm or less.		
3.6.10	Distance between centre lines of batten pockets	1080	1040
3.6.11	The headboard width shall be 120mm or less.		
3.6.12	Sail may have two rows of reef points.		
3.6.13	An iceboat is restricted to the use of two sails in a regatta.		
3.6.14	National letter(s), yacht number and insignia"XV" shall be		
	affixed top on both sides of the sail, the colour of the		
	material used should contrast with the sail and be a		
	minimum of 350mm high.		

## 3.7 RIGGING

3.7.1	Forestay shall be 7mm or more in diameter.
3.7.2	Shrouds shall be 6mm or more in diameter.
3.7.3	All other stays and steel cables shall be 3mm or more in diameter.
3.7.4	Nine sheet blocks shall be installed.
3.7.5	Three sheet blocks shall be installed aft of the second
	cockpit - two on boom and one on deck.
3.7.6	Six sheet blocks shall be installed between cockpits -
	three on boom, one on deck and two in fuselage (below deck).
3.7.7	Two sheet cleats may be installed.

#### 3.8 FITTINGS

3.8.1	Side chock		
3.8.1.1	Length of chock	342	338
3.8.1.2	Depth of chock	103	97
3.8.1.3	Width of runner slot at the smallest dimension where the chock comes in contact with the side of the runner or		
	stiffening element	49	47
3.8.1.4	Distance from lower edge of the chock to the centre		
	of the bolt hole	32	28
3.8.1.5	Construction of side chock is optional.		
3.8.2	Steering		
3.8.2.1	Steering wheel diameter	opt.	400
3.8.2.2	Diameter of hawser reel	40	35
3.8.2.3	Diameter of steering runner sector	opt.	380
3.8.2.4	Depth of steering chock	95	opt.
3.8.2.5	Distance from the lower edge of the steering runner to the		
	centre of the bolt hole	27	23
3.8.2.6	Steering chock axis diameter	opt.	27
3.8.2.7	Diameter of steering chock steel cable shall be 3mm or mo	re.	
3.8.2.8	Steering chock may incorporate a shock absorbing feature	•	
3.8.2.9	Construction and dimensions of fittings not fixed in these r	ules are o	ptional.
3.8.2.10	Light metals and their alloys are prohibited except when used for sheet blocks systems.		

#### 3.9 WEIGHT

The complete Monotype-XV minimum weight should be 205kg. Complete Monotype-XV should consist of:

- fuselage with all hardware, blocks;
- mast with stays hardware and halyard used while sailing;
- runner plank with hardware;
- runners one set;
- sail with five battens.

#### 4. ADDITIONAL RULES

#### 4.1 Ballast

The use of ballast during competitions is allowed and it should be installed in the cockpit. Ballast, placed outside the cockpit, can be used during speed races only and should be fixed properly. Sand, lead or steel shot is recommended for ballast. The use of big separate heavy things is prohibited.

#### 4.2 Crew

During competitions the crew may be one or two persons.

#### 5. PLANS

The following are the current plans, effective January 1, 1993

General Class Plan1993Fuselage1993Runners1993Runner Plank1993Mast1993Boom1993

## **Revision history**

Release date	Comment
1993	First release
2015-02-26	Removed "Two sets of runners can be used during one event." from 3.5.5.