NOTES

1. THE HULL (INCLUDING DECK), KEEL, SKEG, RUDDER, LOOMING/RIGGING, SPARS AND SAILS ARE STRICTLY CONSTRUCTED IN ACCORDANCE WITH THE INTERNATIONAL E-22 CLASS RULES PERTAINING TO ONE DESIGN CONTROL. THE OFFICIAL PLANS AND SPECIFICATIONS CONSIST OF THE FOLLOWING DRAWINGS AND DOCUMENTS: CONSTRUCTION PLAN, MATERIALS LAYUP SCHEDULES, ASSEMBLIES, FITTINGS, PARTS, STRUCTURAL MEMBERS OR KIT, BULKHEADS, KNEES, BOW STRINGERS, DECK STIFFENERS AND CHAINPLATES INSTALLATION, SAIL PLAN, SPECIFICATIONS AND OTHER DOCUMENTATION. UNLESS SPECIFICALLY NOTED AS RECOMMENDED (REC.) OR "OPTIONAL (OPT.)", DIMENSIONS WITH TOLERANCES INDICATED ARE MANDATORY. MEASUREMENTS WITHOUT TOLERANCES ARE NOMINAL AND ARE NOT MANDATORY. ALL DIMENSIONS ARE IN METRIC UNITS EXCEPT THE ITEM NUMBERS LISTED ON THE MEASUREMENT FORM (WHICH ARE IN INCHES) AND THE SAIL AREA WHICH IS IN SQUARE METERS. ITEMS WITH "(I.S. 1/2/3/4/5 INTERNATIONAL)" IN THEIR TITLES ARE THE GENERAL TYPES SHOWN ON THOSE PLANS. IT IS IMPOSSIBLE TO MENTION EVERY SUGGESTION THAT HAS BEEN MADE OVER THE YEARS, SO IF A SUGGESTION IS NOT MENTIONED IT DOES NOT MEAN THAT IT HAS BEEN IGNORED. THOSE WHO ARE CONSIDERING BUYING OR CONSTRUCTING A BOAT WITH THE VARIOUS OPTIONS OR SAILS OR EQUIPMENT WHICH IS NOT CLEARLY COVERED BY THE PLANS AND SPECIFICATIONS SHOULD CONSULT THE CLASS ASSOCIATION OR THE CLASS APPROVAL HEAD HOUSE ORGANISED FROM TIME TO TIME. THIS IS IN THE U.S. INTERNATIONAL E-22 CLASS ASSOCIATION.

2. HULL, DECK, SEAT, SKEG AND RUDDER SHALL BE OF GLASS REINFORCED POLYESTER RESIN (G.R.P.) IN ACCORDANCE WITH THE RELEVANT OFFICIAL PLANS AND SPECIFICATIONS AND SHALL BE MADE ONLY FROM OFFICIAL MOULDS CONSTRUCTED EXACTLY BY BUILDERS LICENSED BY THE CLASS ASSOCIATION. THE MOULDS SHALL BE CONSTRUCTED EXACTLY BY BUILDERS OF HULL, DECK, SKEG, RUDDER, TANK TOP, AND GRAB RAILS AS FOLLOWS:
- STRAKE "A" - 2 PLIES #50 (G/M) (1.5 OZ/SQ.FT.) MAT, 1 PLY #18 (G/M) (18 OZ/ SQ.YD.) WOVEN ROVING,
- STRAKE "B" - 2 PLIES #50 (G/M) (1.5 OZ/SQ.FT.) MAT, 1 PLY #18 (G/M) (18 OZ/ SQ.YD.) WOVEN ROVING,
- STRAKE "C" - 2 PLIES #50 (G/M) (1.5 OZ/SQ.FT.) MAT, 1 PLY #18 (G/M) (18 OZ/ SQ.YD.) WOVEN ROVING,
- STRAKE "D" - 2 PLIES #50 (G/M) (1.5 OZ/SQ.FT.) MAT, 1 PLY #18 (G/M) (18 OZ/ SQ.YD.) WOVEN ROVING,
- STRAKES "E", "F", "G", "H", "I", AND "J" - 1 PLY #50 (G/M) (1.5 OZ/SQ.FT.) MAT, 1 PLY #18 (G/M) (18 OZ/ SQ.YD.) WOVEN ROVING,
- STRAKES "K", "L", AND "M" (AROUND TRANSOM) AND SHEER STRAKE - 2 PLIES #50 (G/M) (1.5 OZ/SQ.FT.) MAT, 1 PLY #18 (G/M) (18 OZ/ SQ.YD.) WOVEN ROVING, 1 PLY #10 (G/M) (10 OZ/ SQ.YD.) UNIDIRECTIONAL ROVING (0° FIBERS) WITH FIBERS RUNNING FORE AND AFT, AND "N" AND "O" LAMINATES SHALL OVERLAP TO CLOSE BOTTOM SIDE OF THE CENTERLINE OF THE HULL.

THE HULL SHALL BE MADE IN THE FOLLOWING TYPE:
PRIMARY BOND OR BARRIER LAMINATE: 1 PLY [22 G/M (0.4 OZ/ SQ.FT.) MAT, 1 PLY 600 G/M (18 OZ/ SQ.YD.) WOVEN ROVING] - 1 PLY 225 G/M (0.8 OZ/ SQ.FT.) MAT, 1 PLY 600 G/M (18 OZ/ SQ.YD.) WOVEN ROVING.

SECONDARY BOND OR RUBBER LAMINATE: 1 PLY [225 G/M (0.8OZ/ SQ.FT.) MAT, 1 PLY 600 G/M (18 OZ/ SQ.YD.) WOVEN ROVING] - 1 PLY 225 G/M (0.8OZ/ SQ.FT.) MAT, 1 PLY 600 G/M (18 OZ/ SQ.YD.) WOVEN ROVING MAY BE OMITTED IN WAY OF GRAINING.

COVERING BOARD LAYUP SCHEDULE (SEE EQUALLOR EXCEPTED FOLLOWING SCHEDULE):
PRIMARY BOND OR RABBER LAMINATE: - 1 PLY 225 G/M (0.8OZ/ SQ.FT.) MAT, 1 PLY 600 G/M (18 OZ/ SQ.YD.) WOVEN ROVING.

SKEG AND RUDDER LAYUP SCHEDULE:
1 PLY #50 G/M (1.5 OZ/ SQ.FT.) MAT, 1 PLY 225 G/M (0.8 OZ/ SQ.FT.) MAT, 1 PLY 600 G/M (18 OZ/ SQ.YD.) WOVEN ROVING, 1 PLY 225 G/M (0.8 OZ/ SQ.FT.) MAT, 2 PLIES #50 G/M (1.5 OZ/ SQ.FT.) MAT, 1 PLY 600 G/M (18 OZ/ SQ.YD.) WOVEN ROVING MAY BE OMITTED IN WAY OF GRAINING.

1 PLY #50 G/M (1.5 OZ/ SQ.FT.) MAT, 1 PLY 600 G/M (18 OZ/ SQ.YD.) WOVEN ROVING.

THE BUILDER SHALL FOLLOW PROCEDURES AND STANDARDS WHICH ENSURE STRICT CONTROL OF THE MIXING OF RESIN AND HARDENER AND OF THE LAMINATION PROCESS. THE BUILDER SHALL KEEP A TRUE AND ACCURATE ASSEMBLY RECORD, AS SHOWN ON THE CONSTRUCTION PLAN SCHEDULE 3 ("THE BARE WEIGHT" LOCAL REINFORCEMENT), AS SHOWN ON THIS CONSTRUCTION PLAN, OF THE WEIGHTS OF RESIN AND REINFORCEMENT USED IN THE HULL, DECK AND COMPONENTS (EXCLUDING TEAK DECKING) AND SHALL SIGN AT THE BOTTOM OF THE RECORD IN THE PRESENCE OF THE MEASURER.

3. THE HULL SHALL BE BUILT AND CAST IN AN OFFICIAL MOULD ESTABLISHED FROM A MASTER APPROVED BY THE U.R.C. AND SHALL BE IN ACCORDANCE WITH THE RULES, OFFICIAL PLANS AND SPECIFICATIONS, AND MEASUREMENT FORM. A SMALL NUMBER OF MINOR DEVIATIONS FROM THE PLANS AND SPECIFICATIONS MAY BE ALLOWED TO IMPROVE THE WORKING IN DETAIL.

4. THE ATTACHMENT OF THE DECK TO THE HULL SHALL FOLLOW THE EXAMPLES SHOWN ON THE CONSTRUCTION PLAN AND SHALL BE ACCOMPLISHED WITH THE DECK TO THE OUTSIDE OF THE HULL. THE DECK SHALL BE FREE FROM CUT-OUTS (EXCEPT AS PERMITTED BY INTERNATIONAL E-22 CLASS ASSOCIATION).

5. FLOORBOARDS, BOTH IN HULL 1-3-5, THE TOP SURFACE OF THE FLOORBOARDS SHALL BE A SINGLE HORIZONTAL PLANE. THE FLOORBOARDS, INCLUDING TRANSVERSE MEMBERS, SHALL BE OF MARINE PLYWOOD (MAHOGANY OR OKOUME) NOT LESS THAN 15 MM (0.59 INCH) THICK AND NOT MORE THAN 20 MM (0.80 INCH). WHEN CUT, THE EDGES IN OPENINGS SHALL BE SEALED WITH EPOXY RESIN. THE FLOORBOARDS SHALL BE SUPPORTED BY TRANSVERSE MEMBERS OF THE SAME MATERIAL AS OPTIONAL, EXCEPT NO EXOTIC MATERIAL (I.E. CARBON FIBRES, KEVLAR, ETC.) SHALL BE USED.

6. THE USE OF A CONSOLE OR SAMSON POST IS OPTIONAL. THE DESIGN IS RECOMMENDED BUT NOT MANDATORY. IF USED, THE CONSOLE SHALL BE BUILT TO RULE 7.4. THE MATERIAL IS OPTIONAL, EXCEPT NO EXOTIC MATERIAL (I.E. CARBON FIBRES, KEVLAR, ETC.) SHALL BE USED.

7. THE GLASS FIX ATTACHMENT OF METALLIC HARDWARE SHALL BE TO BE DONE WITH EXTREME CARE IN ORDER TO DEVELOP CONTINUITY OF STRENGTH.

8. UNDER RULE 9.3.1(I.S. 1/2/3/4/5 INTERNATIONAL E-22 CLASS ASSOCIATION), THE MAXIMUM WEIGHT OF THE HULL, DECK, SPARS AND SAILS SHALL NOT EXCEED 1,000 KG (2,204.6 LBS.) AND NOT MORE THAN 20 KG (44 LBS.) WITHIN 0.2 M (7.9 INCH) OF THE DESIGN DISPLACEMENT LINE. THE DESIGN DISPLACEMENT IS 1,000 KG (2,204.6 LBS.). THE DESIGN DISPLACEMENT LINE IS 0.2 M (7.9 INCH) ABOVE THE INTERNATIONAL E-22 CLASS MEASUREMENT FORM (1976). EXAMPLE: [67]

9. BETWEEN THE FWD & AFTER BHDS, THE INSIDE SURFACES OF THE HULL & UNDERSIDE OF DECK SHALL BE COATED WITH GEL COAT, PAINT, INK, ALIPHATIC POLYURETHANE COATINGS, ARE PROHIBITED

10. As of 1 Jan 2008 a additional bulkhead has been mandated in all new yachts. See drawings Bow_Bulkhead_2007, Bow_Bulkhead_Installation_2007 and Bow_Bulkhead Specifications for construction and installation details.

NOTE: ALL DIMENSIONS ARE GIVEN IN MILLIMETRES. NUMBERS ENCLOSED IN PARENTHESES ARE APPROXIMATE INCH EQUIVALENTS. EXAMPLE: "(1 INCH)" OR "(1 1/2 INCHES)". 1m = LENGTH OF FIBERGLASS TAPE: 2450.0 / 7.150 = 342.657 INCHES OR 8.706 METRES
LENGTH OF BOW STRINGER: 2450.0 / 7.150 = 342.657 INCHES OR 8.706 METRES
LENGTH OF MIDDLE STRINGER: 2300.0 / 10.127 = 227.118 INCHES OR 5.768 METRES
LENGTH OF BOTTOM STRINGER: 1290.7 / 11.127 = 115.978 INCHES OR 2.945 METRES
INTERNATIONAL E-22 CLASS MEASUREMENT FORM (1976). EXAMPLE: [67]

DESIGNER:
E.W. ETCHELLS
ROUTE 1, BOX 666
EASTON, MD 21601 U.S.A.

CONTROLLING AUTHORITIES:
INTERNATIONAL E-22 CLASS ASSOCIATION
BOX 534, WALL STREET STATION
NEW YORK, NY 10268 U.S.A.

INTERNATIONAL YACHT RACING UNION
ISCKNIGHTSBRIDGE
LONDON SW1 7IX ENGLAND

INTERNATIONAL E-22 CLASS
1941 WL 1940-1941

CONSTRUCTION PLAN

SCALE: 1:16, FULL SIZE, HALF SIZE

DATE: DEC 9, 1981 DRAWN/APPROVED TIG/

FILL VOID BETWEEN COVERING BOARD AND DECK LAMINATE WITH GEL COAT, CABOSIL OR MICROBALLOONS AND RESIN MIXTURE, OR EQUIVALENT
DECK LAMINATE
COVERING BOARD
12MM (1/2") END-GRAIN BALSA CORE
HULL LAMINATE
2 PLY [22 G/M (0.8 OZ/ SQ.FT.) MAT BETWEEN DECK & COVERING BOARD
REC. HULL/DECK JOINT BONDING LAYUP SCHEDULES
1 PLY #50 G/M (1.5 OZ/ SQ.FT.) MAT, 600 G/M (18 OZ/ SQ.YD.) WOVEN ROVING
1 PLY #10 G/M (1.5 OZ/ SQ.FT.) MAT, 600 G/M (18 OZ/ SQ.YD.) WOVEN ROVING
SECTION THRU HULL/DECK JOINT
(RECOMMENDED METHOD)
NOTE: COVERING BOARD IS PART OF THE HULL LAMINATE.
FILL WITH CHOPPED STRANDS & RESIN MIXTURE, WHERE THE TIGHT CURVATURE OF THE DECK EDGE MAKES IT DIFFICULT TO LAY UP THE BONDING PLIES CONTINUOUSLY AROUND THE CURVE. THE FILLET SHALL BE BONDED TO BOTH THE BONDING PLIES AND THE HULL AND DECK LAMINATES WITH RESIN. THE FILLET SHALL NOT BE USED TO BOND THE HULL/DECK JOINT SEAM. THE AMOUNT OF CHOPPED STRAND & RESIN MIXTURE SHALL BE KEPT TO A MINIMUM AS IT WILL ALSO CAUSE FRACTURING OF THE HULL/DECK JOINT SEAM, WHERE THE CURVATURE OF THE DECK EDGE MAKES IT NOT NECESSARY
DECK LAMINATE
REC. 75 (3") TO 150 MM (6") CORE
12MM (1/2") END-GRAIN BALSA CORE
HULL/DECK JOINT SEAM
CAMPER HULL AND DECK LAMINATES AS SHOWN, THEN APPLY A MIXTURE OF GEL COAT, PAINT, INK, CABOSIL OR MICROBALLOONS AND RESIN, OR EQUIVALENT, AND RESIN.
REC. HULL/DECK JOINT BONDING LAYUP SCHEDULE
1 PLY #50 G/M (1.5 OZ/ SQ.FT.) MAT, 600 G/M (18 OZ/ SQ.YD.) WOVEN ROVING
1 PLY #10 G/M (1.5 OZ/ SQ.FT.) MAT, 200 G/M (7 OZ/ SQ.YD.) WOVEN ROVING
FILL WITH CHOPPED STRANDS & RESIN MIXTURE (SERVES AS A BACKING FOR BONDING PLIES) OR WITH A MIXTURE OF MICROBALLOONS & RESIN, OR EQUIVALENT. DO NOT USE MIXTURE IN MIDDLE OF BALSA CORE. LAMINATES AS SHOWN TO MINIMIZE STRESS CONCENTRATION
HULL LAMINATE
SECTION THRU HULL/DECK JOINT
(ALTERNATIVE METHOD)
NOTES: 1. COVERING BOARD IS PART OF THE DECK LAMINATE.
2. THIS METHOD REQUIRES LESS PRECISION IN APPLICATION, BUT IS HEAVIER THAN THE RECOMMENDED METHOD
DECK LAMINATE
REC. 75 (3") TO 150 MM (6") CORE
12MM (1/2") END-GRAIN BALSA CORE
HULL/DECK JOINT SEAM
CAMPER HULL AND DECK LAMINATES AS SHOWN, THEN APPLY A MIXTURE OF GEL COAT, PAINT, INK, CABOSIL OR MICROBALLOONS AND RESIN, OR EQUIVALENT, AND RESIN.
REC. HULL/DECK JOINT BONDING SCHEDULE
1 PLY [225 G/M (0.8 OZ/ SQ.FT.) MAT, 600 G/M (18 OZ/ SQ.YD.) WOVEN ROVING]
1 PLY #10 G/M (1.5 OZ/ SQ.FT.) MAT, 600 G/M (18 OZ/ SQ.YD.) WOVEN ROVING
1 PLY #10 G/M (1.5 OZ/ SQ.FT.) MAT, 225 G/M (0.8 OZ/ SQ.YD.) WOVEN ROVING
1 PLY #10 G/M (1.5 OZ/ SQ.FT.) MAT, 600 G/M (18 OZ/ SQ.YD.) WOVEN ROVING
CAREFUL APPLICATION OF THE BONDING PLIES IS NECESSARY TO ENSURE THAT THE BONDING PLIES DO NOT BRIDGE BETWEEN THE HULL AND DECK LAMINATES AT THE HULL/DECK JOINT. THIS WILL CAUSE FRACTURING OF THE HULL/DECK JOINT SEAM.
HULL LAMINATE
SECTION THRU HULL/DECK JOINT
(RECOMMENDED METHOD)
NOTE: 1. COVERING BOARD IS PART OF THE DECK LAMINATE.
2. THIS METHOD REQUIRES LESS PRECISION IN APPLICATION, BUT IS HEAVIER THAN THE RECOMMENDED METHOD OR THE ABOVE ALTERNATIVE METHOD OF JOINING HULL & DECK REQUIRES PRIOR APPROVAL OF THE U.S.23 INTERNATIONAL ASSOCIATION (E22) UNTIL THE END
RUDDER STOCK
FRP WRAPPED AROUND RUDDER STOCK
RUDDER
SKEG
MICROBALLOONS & RESIN
MICROBALLOONS & RESIN
SECTION H-H (RUDDER/SKEG)
SCALE: 1:2 (HALF SIZE)
4 MM (.157") THK. PLYWOOD BHD. OR KNEE, EXCEPT FOR 12MM (.472") THK. PLYWOOD AT ENGINE ATTACHMENT, AND FOR 6 MM (.236") THK. PLYWOOD AT GALLEY/LOUNGE SEATS SIDES.
BHD. BONDING LAYUP SCHEDULE: 50 G/M (1.5 OZ/ SQ.FT.) MAT, 600 G/M (18 OZ/ SQ.YD.) WOVEN ROVING
KNEE BONDING LAYUP SCHEDULE TO HULL & DECK (MANDATORY):
1 PLY 600 G/M (18 OZ/ SQ.YD.) WOVEN ROVING, 1 PLY #10 G/M (1.5 OZ/ SQ.FT.) MAT, 1 PLY 600 G/M (18 OZ/ SQ.YD.) WOVEN ROVING
ATTACHMENT OF AFTER BHD. & KNEES TO HULL
FULL SIZE
HULL
REC. 12 (1/2") DIAMETER CLEARANCE HOLES IN BHD. FOR BOLTS THROUGH KEEL
REC. 12 (1/2") DIAMETER CLEARANCE HOLES IN KEEL FOR BOLTS THROUGH BHD.
REC. 12 (1/2") DIAMETER CLEARANCE HOLES IN KEEL FOR BOLTS THROUGH BHD.
REC. 12 (1/2") DIAMETER CLEARANCE HOLES IN BHD. FOR BOLTS THROUGH KEEL
FORWARD BHD. ATTACHMENT AND HULL REINFORCEMENT
FULL SIZE
HULL
(3) SKILL REINFORCEMENT TAPES IN WAY OF BHD.
4000 (.4") THK. PLYWOOD (MARINE) REINFORCEMENT
REC. SEAT BONDING LAYUP SCHEDULE (TO HULL & DECK):
1 PLY 300 G/M (10 OZ/ SQ.YD.) MAT OVER 1 PLY 600 G/M (18 OZ/SQ.YD.) WOVEN ROVING
12MM (.5") END-GRAIN BALSA CORE
SECTION E-F
SCALE: 1:2
REC. BONDING LAYUP SCHEDULE FOR ATTACHMENT OF PLYWOOD TO SEAT:
1 PLY 300 G/M (10 OZ/ SQ.YD.) MAT OVER 1 PLY 600 G/M (18 OZ/SQ.YD.) WOVEN ROVING
TRACE OF 12MM (.5") END-GRAIN BALSA CORE
DRILL 100MM (3.9") DIA. DRILL HOLES IN TANK WELLS, FW.
TRACE OF 4000 (.4") THK. FW PLYWOOD (MARINE) REINFORCEMENT
TRACE OF SEAT BONDED TO HULL & DECK
4000 (.4") THK. FW PLYWOOD (MARINE), LAMINATED BOTH SIDES & ALL EDGES W/ 300 G/M (10 OZ/ .6185 G/CM3) EPOXY RESIN OR WOOD GLUE, FW
SEAT CONSTRUCTION & INSTALLATION
2110 (83.27") (FAIR)
900 (35.51") (FB)
12MM (47") MAX. DIA. HOLE IN CONSOLE
REC. 5000 (197")
MIN. FLOORBOARDS WIDTH (SEE FB*)
CONSOLE (OPTIONAL) - REFER TO RULE 7.1 FOR LIMITATIONS
FLOOR-BOARDS
KEEL/CB'BOARD CASING
REC. 1 PLY #50 G/M (1.5 OZ/ SQ.FT.) MAT BE APPLIED TO TANK TOP, BE APPLIED TO CONSOLE BONDING LAMINATE AND TABS AND OVERLAP TO SIDES (CONSOLE IS PRESSED INTO MAT) UNTIL CURED
TANK TOP
CONSOLE BONDING LAMINATE
HULL/DECK SEAM
1500 (59.1") FAIR)
REC. CONSOLE BONDING LAYUP SCHEDULE:
1 PLY 300 G/M (10 OZ/ SQ.YD.) MAT, 225 (9") WIDE TAPE
1 PLY 600 G/M (18 OZ/ SQ.YD.) WOVEN ROVING, 225(9") WIDE TAPE
1 PLY 600 G/M (18 OZ/ SQ.YD.) WOVEN ROVING, 150 (6") WIDE TAPE
1 PLY 600 G/M (18 OZ/ SQ.YD.) WOVEN ROVING, 150 (6") WIDE TAPE
SECTION AT STA. 6
SCALE: 1:2
ACCESS HOLE REQ'D BHD: 500 (17.7") MIN DIA. OR EQUIVALENT WIDTH
REC. 350 (13.9") B. x 500 (19.7") H.
ACCESS COVER REQUIRED: 4000 (.4") THK. FW PLYWOOD (MARINE) LAMINATED BOTH SIDES W/ 2 PLY 300 G/M (10 OZ/ SQ.YD.) OF E-GLASS CLOTH, OR 6000 (.6") CLEAR, OR EQUIVALENT
SECTION AT AFTER BHD.
LOOKING AFT
MINIMUM ALLOWABLE OFFSET: 100 (3.94")
REC. DRAIN PLUG (SCREW-IN TYPE REQUIRED)
SUMP FLOOR
TOP OF COAMING
MICROBALLOONS & RESIN, OR EQUIVALENT
1 PLY 225 G/M (0.8 OZ/ SQ.FT.) MAT, 1 PLY 600 G/M (18 OZ/SQ.YD.) WOVEN ROVING
SIDE DECK
12MM (.5") END-GRAIN BALSA CORE
1 PLY 450 G/M (1.5 OZ/ SQ.FT.) MAT, 1 PLY 450 G/M (1.5 OZ/ SQ.FT.) MAT
1 PLY 450 G/M (1.5 OZ/ SQ.FT.) MAT, 1 PLY 600 G/M (18 OZ/SQ.YD.) WOVEN ROVING
MICROBALLOONS & RESIN, OR EQUIVALENT
SECTION E-E
FULL SIZE
NOTE: LOCAL REINFORCEMENT IN WAY OF THE ATTACHMENT OF FITTINGS TO THE HULL SHALL BE ACCOMPLISHED BY THE USE OF ADDITIONAL PLIES OF GLASS FIBRE TAPES AND/OR BACK-UP PLATES OF METAL, WOOD, FILLER, RESIN, ETC. AS NECESSARY. THE BUILDER SHALL BE RESPONSIBLE FOR USING SUCH ADDITIONAL MATERIAL AS MAY BE NECESSARY TO OBTAIN THE AMOUNT REQUIRED FOR PREVENTION OF LOCAL CRUSHING OF THE FRACTURE OF THE COAMING. REFER TO RULE 3.5.
TRANSOM REINFORCEMENT (MANDATORY):
1 PLY #50 G/M (1.5 OZ/ SQ.FT.) MAT, LENGTH FROM TOP TO BOTTOM OF TRANSOM, AND 1 PLY 600 G/M (18 OZ/ SQ.YD.) WOVEN ROVING, 300 (12") WIDE, APPLIED AFTER BARRIER LAMINATE.
TRANSOM
SEE "K", "L" AND "M" LAYUP SCHEDULES
BACKSTAY FITTING BONDING LAYUP SCHEDULE (MANDATORY MIN.):
1 PLY #50 G/M (1.5 OZ/ SQ.FT.) MAT, TO WITH A 200 (8") X 450 (18") PLY
1 PLY 410 G/M (15 OZ/ SQ.YD.) WOVEN ROVING, 150 W. x 200 (8") H. (FOR
1 PLY 410 G/M (15 OZ/ SQ.YD.) WOVEN ROVING, 200 W. x 450 (18") H. (FOR
ASAME SCHEDULE FOR BONDING BOTTOM OF BACKSTAY FITTING TO PRESSED INTO MAT UNTIL CURED.
REC. 1 PLY #50 G/M (1.5 OZ/ SQ.FT.) MAT BE APPLIED THEN BACKSTAY FITTING IS PRESSED INTO MAT UNTIL CURED.
BACKSTAY FITTING (ONE-DESIGN) FITTING, REFER TO DWG. 500B-VG
REC. 1 PLY #50 G/M (1.5 OZ/ SQ.FT.) MAT, TO WIDE x 200 G/M (2.2"/6") HT. BE APPLIED THEN BACKSTAY FITTING IS PRESSED INTO MAT UNTIL CURED.
REC. BONDING BOTTOM OF RUDDER TUBE TO HULL WITH 225 G/M (8 OZ/ SQ.YD.) MAT, 75(3") WIDE TAPES
SECTION AT BACKSTAY FITTING
SCALE: 1:2 (HALF SIZE)
NOTE: BACKSTAY PENNANT MAY BE ATTACHED TO BACKSTAY FITTING IN AFTER FLOATATION COMPARTMENT OR KEELSON. BHD. OR HULL IN WAY OF ATTACHMENT SHALL BE REINFORCED AS NECESSARY. WHICH 1.1.
ACCESS HOLE REQ'D BHD: 500 (17.7") MIN DIA. OR EQUIVALENT WIDTH
REC. 350 (13.9") B. x 500 (19.7") H.
ACCESS COVER REQUIRED: 4000 (.4") THK. FW PLYWOOD (MARINE) LAMINATED BOTH SIDES W/ 2 PLY 300 G/M (10 OZ/ SQ.YD.) OF E-GLASS CLOTH, OR 6000 (.6") CLEAR, OR EQUIVALENT.
SECTION AT BHD.
LOOKING AFT
MINIMUM ALLOWABLE OFFSET: 100 (3.94")
REC. DRAIN PLUG (SCREW-IN TYPE REQUIRED)
SUMP FLOOR
TOP OF COAMING
MICROBALLOONS & RESIN, OR EQUIVALENT
1 PLY 225 G/M (0.8 OZ/ SQ.FT.) MAT, 1 PLY 600 G/M (18 OZ/SQ.YD.) WOVEN ROVING
SIDE DECK
12MM (.5") END-GRAIN BALSA CORE
1 PLY 450 G/M (1.5 OZ/ SQ.FT.) MAT, 1 PLY 450 G/M (1.5 OZ/ SQ.FT.) MAT
1 PLY 450 G/M (1.5 OZ/ SQ.FT.) MAT, 1 PLY 600 G/M (18 OZ/SQ.YD.) WOVEN ROVING
MICROBALLOONS & RESIN, OR EQUIVALENT
SECTION E-E
FULL SIZE
NOTE: LOCAL REINFORCEMENT IN WAY OF THE ATTACHMENT OF FITTINGS TO THE HULL SHALL BE ACCOMPLISHED BY THE USE OF ADDITIONAL PLIES OF GLASS FIBRE TAPES AND/OR BACK-UP PLATES OF METAL, WOOD, FILLER, RESIN, ETC. AS NECESSARY. THE BUILDER SHALL BE RESPONSIBLE FOR USING SUCH ADDITIONAL MATERIAL AS MAY BE NECESSARY TO OBTAIN THE AMOUNT REQUIRED FOR PREVENTION OF LOCAL CRUSHING OR THE FRACTURE OF THE COAMING. REFER TO RULE 3.5.
TRANSOM
SEE "K", "L" AND "M" LAYUP SCHEDULES
TRANSOM REINFORCEMENT (MANDATORY):
1 PLY #50 G/M (1.5 OZ/ SQ.FT.) MAT, LENGTH FROM TOP TO BOTTOM OF TRANSOM, AND 1 PLY 600 G/M (18 OZ/ SQ.YD.) WOVEN ROVING, 300 (12") WIDE, APPLIED AFTER BARRIER LAMINATE.
BACKSTAY FITTING BONDING LAYUP SCHEDULE (MANDATORY MIN.):
1 PLY #50 G/M (1.5 OZ/ SQ.FT.) MAT, TO WITH A 200 (8") X 450 (18") PLY
1 PLY 410 G/M (15 OZ/ SQ.YD.) WOVEN ROVING, 150 W. x 200 (8") H. (FOR
1 PLY 410 G/M (15 OZ/ SQ.YD.) WOVEN ROVING, 200 W. x 450 (18") H. (FOR
ASAME SCHEDULE FOR BONDING BOTTOM OF BACKSTAY FITTING TO PRESSED INTO MAT UNTIL CURED.
REC. 1 PLY #50 G/M (1.5 OZ/ SQ.FT.) MAT BE APPLIED THEN BACKSTAY FITTING IS PRESSED INTO MAT UNTIL CURED.
BACKSTAY FITTING (ONE-DESIGN) FITTING, REFER TO DWG. 500B-VG
REC. 1 PLY #50 G/M (1.5 OZ/ SQ.FT.) MAT, TO WIDE x 200 G/M (2.2"/6") HT. BE APPLIED THEN BACKSTAY FITTING IS PRESSED INTO MAT UNTIL CURED.
REC. BONDING BOTTOM OF RUDDER TUBE TO HULL WITH 225 G/M (8 OZ/ SQ.YD.) MAT, 75(3") WIDE TAPES
SECTION AT BACKSTAY FITTING
SCALE: 1:2 (HALF SIZE)
NOTE: BACKSTAY PENNANT MAY BE ATTACHED TO BACKSTAY FITTING IN AFTER FLOATATION COMPARTMENT OR KEELSON. BHD. OR HULL IN WAY OF ATTACHMENT SHALL BE REINFORCED AS NECESSARY. WHICH 1.1.
ACCESS HOLE REQUIRED: 500 (17") MIN DIA. OR EQUIVALENT WIDTH
REC. 350 (13.9") B. x 500 (19.7") H.
ACCESS COVER REQUIRED: 4000 (.4") THK. FW PLYWOOD (MARINE) LAMINATED BOTH SIDES W/ 2 PLY 300 G/M (10 OZ/ SQ.YD.) OF E-GLASS CLOTH, OR 6000 (.6") CLEAR, OR EQUIVALENT.
BHD. BONDING TAPES
REC. DRAIN PLUG (SCREW-IN TYPE REQUIRED)
STATION 2
LOOKING FWD
BHD. GASKET REQ'D. - 3 x 12 (1/8" x 1/2") PRESSURE SENSITIVE RUBBER STRIP, OR EQUIVALENT
ACCESS COVER
12 MM (1/2") PLY
BULKHEAD
SECTION A-A
FULL SIZE
OFFSET TO ALLOW FOR VARIATION IN DECK THICKNESS (FROM DECK EDGE TO OUTBOARD EDGE OF BALSA CORE) IS OPTIONAL
AFTER KNEE
(COMPARTMENTED TYPE)
MATERIAL: 6000 (.6") THK. FW PLYWOOD (MARINE) LAMINATED BOTH SIDES W/ 2 PLY 300 G/M (10 OZ/ SQ.YD.) OF E-GLASS CLOTH WITH 300 G/M (10 OZ/ .6185 G/CM3) EPOXY RESIN OR WOOD GLUE, FW
INTERMEDIATE KNEE
(NO FWD PORTAGE STATION #1)
MATERIAL: 6000 (.6") THK. FW PLYWOOD (MARINE) LAMINATED BOTH SIDES W/ 2 PLY 300 G/M (10 OZ/ SQ.YD.) OF E-GLASS CLOTH WITH 300 G/M (10 OZ/ .6185 G/CM3) EPOXY RESIN OR WOOD GLUE, FW
FWD. (CHAINPLATE) KNEE
(AND SHR FORE-AFT STATION #)
MATERIAL: 12 MM (1/2") THK. FW PLYWOOD (MARINE) LAMINATED BOTH SIDES & ALL EDGES W/ 300 G/M (10 OZ/ SQ.YD.) OF E-GLASS CLOTH WITH 300 G/M (10 OZ/ .6185 G/CM3) EPOXY RESIN
CHAINPLATE LAYUP
12MM (.5") THK. KNEE
KNEE LAYUP SCHEDULE (MANDATORY):
1 PLY 450 G/M (1.5 OZ/ SQ.FT.) MAT, 1 PLY 225 G/M (0.8 OZ/ SQ.FT.) MAT, 1 PLY 600 G/M (18 OZ/SQ.YD.) WOVEN ROVING
OFFSET TO ALLOW FOR VARIATION IN DECK THICKNESS (FROM DECK EDGE TO OUTBOARD EDGE OF BALSA CORE) IS OPTIONAL
SECTION B-B
FULL SIZE
1 PLY #50 G/M (1.5 OZ/ SQ.FT.) MAT, 1 PLY 600 G/M (18 OZ/ SQ.YD.) WOVEN ROVING
12MM (.5") END-GRAIN BALSA CORE
1 PLY #50 G/M (1.5 OZ/ SQ.FT.) MAT
1 PLY 600 G/M (18 OZ/ SQ.YD.) WOVEN ROVING
STATION 5
LOOKING FWD AND AFT
NOTE: REC. KEEL BOLT AT KEEL/BHD. JOINT TO BE STAINLESS, BE HARDSIDE TO PERMIT GLASS TAPES AT HULL/KEEL JOINT TO GO OVER/UNDER TO HULL I.S.
KEEL BOLTS, JOINT TO KEEL/BHD. JOINT SCHEDULE (SEE EQUALLOR EXCEPTED FOLLOWING SCHEDULE):
PRIMARY BOND OR BARRIER LAMINATE: - 1 PLY 225 G/M (0.8OZ/ SQ.FT.) MAT, 1 PLY 600 G/M (18 OZ/ SQ.YD.) WOVEN ROVING
EPOXY RESIN & CHOKE MIXTURE OR EPOXY & MICROBALLOONS & RESIN MIXTURE, OR EQUIVALENT
BOTTOM BOTTOM OF HULL KEEL BOLT & TOP OF LEAD KEEL
LEAD KEEL
STATION 7
LOOKING FWD AND AFT
TRACE OF OUTBOARD EDGE OF BALSA CORE
NOTE: LOCAL REINFORCEMENT IN WAY OF THE ATTACHMENT OF FITTINGS TO THE HULL SHALL BE ACCOMPLISHED BY THE USE OF ADDITIONAL PLIES OF GLASS FIBRE TAPES AND/OR BACK-UP PLATES OF METAL, WOOD, FILLER, RESIN, ETC. AS NECESSARY. THE BUILDER SHALL BE RESPONSIBLE FOR USING SUCH ADDITIONAL MATERIAL AS MAY BE NECESSARY TO OBTAIN THE AMOUNT REQUIRED FOR PREVENTION OF LOCAL CRUSHING OR THE FRACTURE OF THE COAMING. REFER TO RULE 3.5.
TRANSOM REINFORCEMENT (MANDATORY):
1 PLY #50 G/M (1.5 OZ/ SQ.FT.) MAT, LENGTH FROM TOP TO BOTTOM OF TRANSOM, AND 1 PLY 600 G/M (18 OZ/ SQ.YD.) WOVEN ROVING, 300 (12") WIDE, APPLIED AFTER BARRIER LAMINATE.
BACKSTAY FITTING BONDING LAYUP SCHEDULE (MANDATORY MIN.):
1 PLY #50 G/M (1.5 OZ/ SQ.FT.) MAT, TO WITH A 200 (8") X 450 (18") PLY
1 PLY 410 G/M (15 OZ/ SQ.YD.) WOVEN ROVING, 150 W. x 200 (8") H. (FOR
1 PLY 410 G/M (15 OZ/ SQ.YD.) WOVEN ROVING, 200 W. x 450 (18") H. (FOR
ASAME SCHEDULE FOR BONDING BOTTOM OF BACKSTAY FITTING TO PRESSED INTO MAT UNTIL CURED.
REC. 1 PLY #50 G/M (1.5 OZ/ SQ.FT.) MAT BE APPLIED THEN BACKSTAY FITTING IS PRESSED INTO MAT UNTIL CURED.
BACKSTAY FITTING (ONE-DESIGN) FITTING, REFER TO DWG. 500B-VG
REC. 1 PLY #50 G/M (1.5 OZ/ SQ.FT.) MAT, TO WIDE x 200 G/M (2.2"/6") HT. BE APPLIED THEN BACKSTAY FITTING IS PRESSED INTO MAT UNTIL CURED.
REC. BONDING BOTTOM OF RUDDER TUBE TO HULL WITH