National Marine Manufacturers Association

Compliance Specialist Exam
Seat Structures (2022 MY)
ABYC H-31 (7/20)

1. Type A and Type B seat assemblies shall be tested as installed on the boat or:
    a. A test substrate as described by the H-31 standard
    b. On a test platform that at least structurally replicates the mounting surface to which the final seat assembly is attached.
    c. ¾" plywood
    d. Both A and B are correct

2. Seats with a vertical adjustment feature shall be tested with the seat in its ____height position.
    a. Minimum
    b. Middle-range
    c. Maximum
    d. Any of the above

3. Per H-31, designated occupant positions are standing or seated areas with a minimum width of _____ designed to be occupied _____.
    a. 12 inches; at all boat speeds in excess of 5 mph
    b. 16 inches; all boat speeds in excess of 5 mph
    c. 12 inches; at all boat speeds
    d. 16 inches; at all boat speeds

4. Solid wood and plywood structural members shall be selected or treated to resist decay in a marine environment and be classified to meet:
    a. Exterior C-CPTS
    b. ASTM B117
    c. Salt Spray Testing
    d. ASTM 4329

5. With the exception of an operator swivel seat, seat swivel locking mechanisms, when locked, shall not rotate relative to the seat base when subjected to a torque of 30 foot pounds.
    a. True
    b. False

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6. Part of the overall testing requirements for the back of multi-person seat assemblies requires that a load of 253 lbf shall be applied to the seat back for 5 minutes without any loss of function. For a two person seat this means that the force being applied is:
    a. 150 lbf at each occupant position (253 lbf total), with the forces applied simultaneously
    b. 253 lbf at each occupant position (506 lbf total), with the forces applied simultaneously
    c. 150 lbf at each occupant position (253 lbf total), with the force being applied to one position at a time
    d. 253 lbf at each occupant position (506 lbf total), with the force being applied to one position at a time

7. Type A and B seats shall withstand without failure or loss of function, a dynamic gravity load of ____ released from a ____ height. This test shall be repeated two times on the same specimen without failure or loss.
    a. 150 lbs; 9 inch
    b. 150 lbs, 12 inch
    c. 400 lbs; 9 inch
    d. 400 lbs; 12 inch

8. A seat attachment test is required to be done to determine the strength of the seat assembly's mounting surface. Regarding the fastener pullout test, which of the following is correct:
    a. The test may be completed on either the boat or a sample representative of the mounting surface
    b. Each fastener's installation shall be able to withstand an axial force of 750 lbf
    c. Is not required if the other seat testing has been completed by the seat's manufacturer
    d. Both A and B

9. Leaning posts are intended to provide body support at a standing designated occupant position while underway and may not be designed to be used as a seat, they are not covered by ABYC H-31 and thus have no testing requirements.
    a. True
    b. False

10. Armrests of both Type A and B seat assemblies shall be designed to withstand without failure the application of a ____ vertical static load per the specified testing requirements within H-31.
    a. 150 lb
    b. 200 lb
    c. 250 lb
    d. 350 lb