

Modern Steel Construction's monthly *Steel Quiz* allows you to test your knowledge of steel design and construction. All references to LRFD specifications pertain to the 1999 *LRFD Specification for Structural Steel Buildings*, available as a free download from AISC's web site:

www.aisc.org/lrfdspec

ASD references pertain to the 1989 *ASD Specification for Structural Steel Buildings*. Where appropriate, other industry standards are also referenced.

Anyone is welcome to submit questions for *Steel Quiz*—one question or 10! If you or your firm are interested in submitting a *Steel Quiz* question or column, contact ►

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Did you read "Are you Properly Specifying Materials" in the January 2004 issue of *Modern Steel Construction*?

If so, this month's *Steel Quiz* will be a breeze! (Visit www.modernsteel.com and click on "Back Issues" to find the article in the January 2004 issue of MSC.)

This *Steel Quiz* was written by the AISC Steel Solutions Center. Ten different materials are given in this month's quiz. It is your job to determine the most appropriate use or uses for that material. Sharpen your pencils. Get ready, get set, go!

1. ASTM A53, Grade B
 - a. shear studs
 - b. rectangular hollow structural sections
 - c. round hollow structural sections
 - d. steel pipes
2. ASTM A992
 - a. angles
 - b. wide-flange shapes
 - c. round hollow structural sections
 - d. ST-shapes
3. ASTM F1554
 - a. bolts
 - b. anchor rods
 - c. shear studs
 - d. steel castings
4. ASTM A325
 - a. bolts
 - b. rectangular hollow structural sections
 - c. steel castings
 - d. anchor rods
5. ASTM A500, Grades B or C
 - a. shear studs
 - b. rectangular hollow structural sections
 - c. round hollow structural sections
 - d. steel pipes
6. ASTM A786
 - a. shear studs
 - b. steel castings
 - c. rolled steel floor plates
 - d. steel bars
7. ASTM A27, Grade 65-35
 - a. shear studs
 - b. steel castings
 - c. anchor rods
 - d. steel pipes
8. ASTM A759
 - a. shear studs
 - b. steel castings
 - c. crane rails
 - d. anchor rods
9. ASTM F1852
 - a. anchor rods
 - b. steel castings
 - c. M-shapes, S-shapes
 - d. tension-control twist-off-type bolt assemblies
10. ASTM F436
 - a. hardened steel washers
 - b. anchor rods
 - c. steel castings
 - d. tension-control twist-off-type bolt assemblies

Turn page for answers

Answers

1. d (steel pipes)
2. b (wide-flange shapes)
3. b (anchor rods)
4. a (bolts)
5. b, c (rectangular and round hollow structural sections)
6. c (rolled steel floor plates)
7. b (steel castings)
8. c (crane rails)
9. d (tension-control twist-off-type bolt assemblies)
10. a (hardened steel washers)