Truss Joist Insulated Header Quiz

Instructions: **Fee: $25**

1. Print these pages.
2. Print referencing manual for my site http://garyklinka.com/Manuals/TJ-8102.pdf or at the TJI site www.ilevel.com/literature/TJ-8102.pdf
3. Circle or enter the correct answer.
4. See the last page for verification forms and mailing instructions.

This 2 hour course is approved for:
1. Dwelling Contractor Qualifier Certification.
2. UDC Construction Inspector.
3. Commercial Building Inspector.

Live Support at 920-381-6714 or tmklinka@hotmail.com

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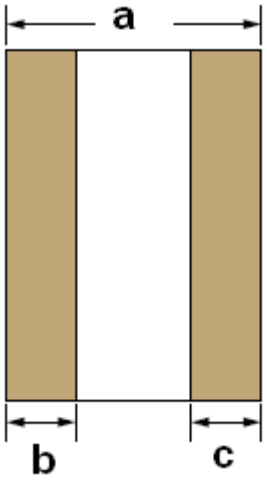
1. Some of the characteristics of the Trus Joist TJ-Insulated headers are?
   a. Insulates to R14
   b. Resists framing heat loss or gain
   c. only b
   d. both a & b
2. Some of the characteristics of the Trus Joist TJ-Insulated headers are?
   a. Match 2x4 walls
   b. Reduces installation labor with one-piece members
   c. only b
   d. both a & b
3. Some of the characteristics of the Trus Joist TJ-Insulated headers are?
   a. Resist bowing, twisting, and shrinking
   b. Reduces construction waste on the job site
   c. only b
   d. both a & b
4. TJ-Insulated headers are manufactured using two plies of ilevel Trus Joist 1.5E Timberstrand LSL with a rigid foam core.
   a. true
   b. false
5. Designed for 2x4 and 2x6 walls, these headers allow for quick, one-piece installation, while providing an insulation value of R14.
   a. true
   b. false
6. TJ-Insulated headers are available in the following sizes: widths of 3 ½" & 5 ½" and depths of 5 ½", 7 ¼", 9 ¼", 111/4", and 14".
   a. true
   b. false

Allowable Design Stresses (100% Load Duration)

7. Shear Modulus of Elasticity…..…….. = _____
8. Flexural stress……..…… = _____
9. Compression perpendicular to grain… = _____
10. Compression parallel to grain…….. = _____
11. Horizontal shear parallel to grain……. = _____



Use the above diagram from page 2 to answer questions 12-14

12. The letter ‘a’ above represents what size?
    a. 3 1/2”
    b. 5 ½”
    c. 1 ½”
    d. none of the above
13. The letter ‘b’ above represents what size?
    a. 3 1/2”
    b. 5 ½”
    c. 1 ½”
    d. none of the above
14. The letter ‘c’ above represents what size?
    a. 3 1/2”
    b. 5 ½”
    c. 1 ½”
    d. none of the above

General Assumptions for TimberStrand LSL

15. Lateral support is required at bearing and along the compression edges of each ply at 24" on center, maximum.
    a. true
    b. false
16. All members 5 ½" or less in depth are restricted to a minimum deflection of 3/8".
    a. true
    b. false

Bearing Length Requirements

17. Minimum bearing length is ___ at ends and ___ at intermediate supports.
    a. 1 ½', 3 ½'
    b. 3", 5 ½"
    c. 1 ½", 5 ½"
    d. 1 ½", 3 ½"
18. Bearing across the full beam width is required.
    a. true
    b. false
19. Bearing lengths for TJ Insulated headers are based on an effective width of the 1.9E TimberStrand LSL.
    a. true
    b. false
20. Interpolation between reaction loads is permitted for determining bearing widths.
    a. true
    b. false

Reaction (lbs)	Bearing Length for TJ®-Insulated Headers
3,000	a
3,500	b
4,000	c
4,500	d
5,000	e
5,500	f
6,000	g
6,500	h
7,000	i
7,500	j
8,000	k
8,500	l
9,000	m
9,500	n

Use the above diagram from page 3 to answer questions 21-28

21. What is the bearing length requirement for 'a' above?
    a. 1 ¾" b. 2" c. 2 ¼" d. 2 ½" e. 2 ¾" f. 3" g. 3 ¼"
    h. 3 ½" i. 3 ¾" j. 4" k. 4 ¼" l. 4 ½" m. 4 ¾" n. 1 ½"
22. What is the bearing length requirement for 'n' above?
    a. 1 ¾" b. 2" c. 2 ¼" d. 2 ½" e. 2 ¾" f. 3" g. 3 ¼"
    h. 3 ½" i. 3 ¾" j. 4" k. 4 ¼" l. 4 ½" m. 4 ¾" n. 1 ½"

23. What is the bearing length requirement for ‘b’ above?

a. 1 ¾” b. 2” c. 2 ¼” d. 2 ½” e. 2 ¾” f. 3” g. 3 ¼”
h. 3 ½” i. 3 ¾” j. 4” k. 4 ¼” l. 4 ½” m. 4 ¾” n. 1 ½”

24. What is the bearing length requirement for ‘m’ above?

a. 1 ¾” b. 2” c. 2 ¼” d. 2 ½” e. 2 ¾” f. 3” g. 3 ¼”
h. 3 ½” i. 3 ¾” j. 4” k. 4 ¼” l. 4 ½” m. 4 ¾” n. 1 ½”

25. What is the bearing length requirement for ‘c’ above?

a. 1 ¾” b. 2” c. 2 ¼” d. 2 ½” e. 2 ¾” f. 3” g. 3 ¼”
h. 3 ½” i. 3 ¾” j. 4” k. 4 ¼” l. 4 ½” m. 4 ¾” n. 1 ½”

26. What is the bearing length requirement for ‘l’ above?

a. 1 ¾” b. 2” c. 2 ¼” d. 2 ½” e. 2 ¾” f, 3” g. 3 ¼”
h. 3 ½” i. 3 ¾” j. 4” k. 4 ¼” l. 4 ½” m. 4 ¾” n. 1 ½”

27. What is the bearing length requirement for ‘d’ above?

a. 1 ¾” b. 2” c. 2 ¼” d. 2 ½” e. 2 ¾” f. 3” g. 3 ¼”
h. 3 ½” i. 3 ¾” j. 4” k. 4 ¼” l. 4 ½” m. 4 ¾” n. 1 ½”

28. What is the bearing length requirement for ‘k’ above?

a. 1 ¾” b. 2” c. 2 ¼” d. 2 ½” e. 2 ¾” f. 3” g. 3 ¼”
h. 3 ½” i. 3 ¾” j. 4” k. 4 ¼” l. 4 ½” m. 4 ¾” n. 1 ½”

Nails Installed on the Narrow Face

Nail Size	Closest On-Center Spacing Per Row	Minimum Edge Distance
8d (2½") Common	a	d
10d (3") or 12d (3¼") Common	b	e
16d (3½") Common	c	f

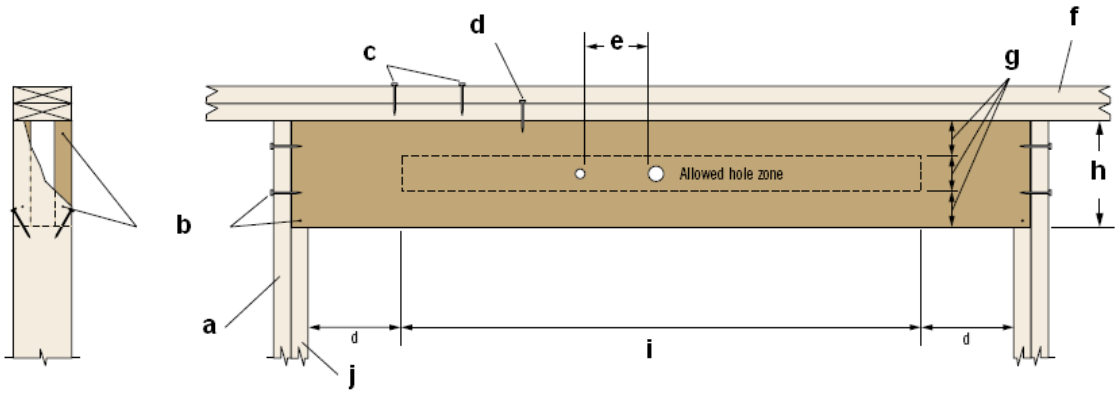
If more than one row of nails is used, the rows must be offset at least ½" and staggered.

Use the above diagram form page 3 to answer questions 29-35

29. Letter ‘a’ represents _____ ?
    a. 4”
    b. 3”
    c. 6”
    d. none of the above
30. Letter ‘b’ represents _____ ?
    a. 4”
    b. 3”
    c. 6”
    d. none of the above
31. Letter ‘c’ represents _____ ?
    a. 4”
    b. 3”
    c. 6”
    d. none of the above
32. Letter ‘d’ represents _____ ?
    a. 3/8”
    b. 7/16”
    c. 1/2”
    d. none of the above
33. Letter ‘e’ represents _____ ?
    a. 3/8”

b. 7/16”
c. 1/2”
d. none of the above

34. Letter ‘f’ represents _____ ?
    a. 3/8”
    b. 7/16”
    c. 1/2”
    d. none of the above
35. If more than one row of nails is used, the row must be offset at least ½” and staggered.
    a. true
    b. false

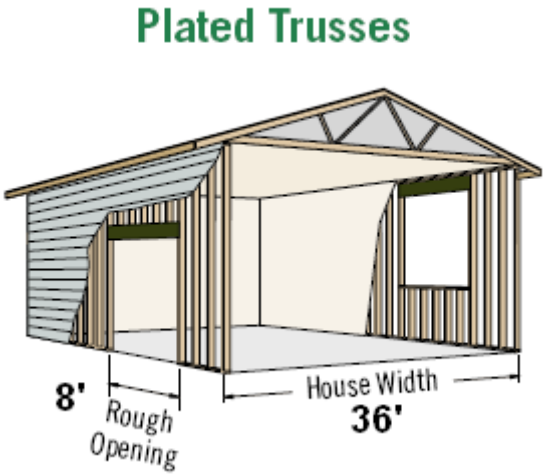


Use the above diagram from page 3 to fill in the blank for questions 36-48

36. The letter ‘j’ above represents? _____
37. The letter ‘a’ above represents?_____
38. The letter ‘b’ above represents? _____
39. The letter ‘c’ above represents? _____
40. The letter ‘d’ above represents? _____
41. The letter ‘e’ above represents? _____
42. The letter ‘f’ above represents? _____
43. The letter ‘g’ above represents? _____
44. The letter ‘h’ above represents? _____
45. The letter ‘i’ above represents? _____
46. The ‘allowed hole zone’ is suitable for uniformly loaded headers only.
    a. true
    b. false
47. Only round or square holes are allowed in the ‘allowed hole zone’.

a. true
b. false

48. Round and square holes are allowed in cantilevers.
a. true
b. false



Use the table on page 4 'Header Supporting Roof' to answer questions 49-56

49. What size header would be required for a roof load of 20LL & 15 DL?
a. 14"
b. not permitted
c. 9 ¼"
d. 11 ¼"

50. What size header would be required for a roof load of 20LL & 20 DL?
a. 14"
b. not permitted
c. 9 ¼"
d. 11 ¼"

51. What size header would be required for a roof load of 25LL & 15 DL?
a. 14"
b. not permitted
c. 9 ¼"
d. 11 ¼"

52. What size header would be required for a roof load of 40LL & 15 DL?
a. 14"
b. not permitted
c. 9 ¼"
d. 11 ¼"

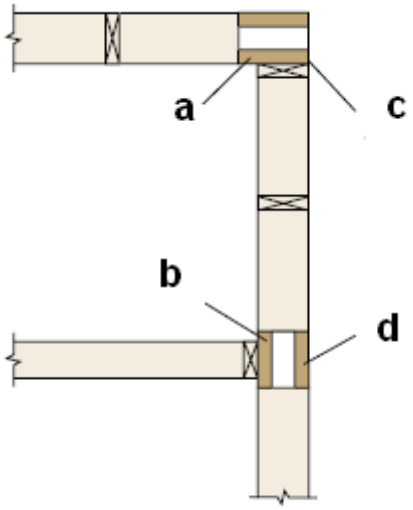
53. What size header would be required for a roof load of 60LL & 15 DL?
a. 14"
b. not permitted
c. 9 ¼"
d. 11 ¼"

54. What size header would be required for a roof load of 70LL & 15 DL?
a. 14"

b. not permitted
c. 9 ¼”
d. 11 ¼”

55. The table on this page includes a soffit length up to?
a. 12”
b. 18”
c. 20”
d. 24”

56. The deflection criteria for the table on this page is _____ for live loads and _____ for total loads.
a. 180, 240
b. 360, 240
c. 240, 180
d. none of the above



Plan View

Use the above diagram from page 7 to fill in the blank for questions 57-60

57. The letter ‘a’ above represents? _____

58. The letter ‘b’ above represents? _____

59. The letter ‘c’ above represents? _____

60. The letter ‘d’ above represents? _____

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Course Title and Name_____Insulated Header Quiz_____

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