

RED CEDAR SHINGLE & HANDSPLIT SHAKE BUREAU

5510 White Building Seattle, Washington 98101 (206) 623-4881

December 14, 1972

2860

To - Research Committee
International Conference of Building Officials

Gentlemen:

This is written in support of the enclosed notarized application that the Modified Cedar-Asbestos Roof System be recognized as equivalent to Class C roofings.

Attached please find 10 copies of "Fire Tests on Cedar Shake Roof Decks" as prepared by B. C. Research, a division of the British Columbia Research Council, which is highly regarded in the technical community as a competent non-profit industrial organization.

This report summarizes results of tests on several different types of roofing assemblies. However, this Research Committee application relates to construction described as 1A. By extension, it applies also to Assemblies 1B and 1C. The only difference between these two Assemblies and 1A is of no consequence insofar as the fire test results are concerned; namely, the glass fibres in 1B and 1C were extended in both directions whereas the fibres in 1A extended in one direction. There is no difference in the fire performance of the two felts.

Your attention is directed, therefore, to the results of Tests 2, 4, 6 and 7, and to the conclusions on pages 8 and 9 of the report.

As mentioned in the report, a 16mm motion picture record of the tests was made, and it would be our pleasure to show this movie to members of the Research Committee, individually or collectively.

We respectfully request that the Modified Cedar-Asbestos Roof System be granted an equivalency to fire-retardant Class C roofing as defined in 3203(e)5 on page 436 of the Uniform Building Code, 1970 Edition.

Sincerely,

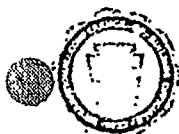
RED CEDAR SHINGLE & HANDSPLIT SHAKE BUREAU

Virgil G. Peterson
Virgil G. Peterson
Secretary-Manager

vgp/r

Change & Fee
Sent 1-3-73

O.R. for Feb. 73 Mtg.
JHM NOV 8 1972
12/28/72



International Conference of Building Officials

5360 SOUTH WORKMAN MILL ROAD • WHITTIER, CALIFORNIA 90601 • (213) 699-0541

APPLICATION FOR RESEARCH COMMITTEE RECOMMENDATION ON ALTERNATE MATERIALS OR METHODS OF CONSTRUCTION AND PREFABRICATED CONSTRUCTION SYSTEMS

For Conference Use

Research Report No. 2860

Date December 14, 1972

NAME OF APPLICANT (FIRM) Red Cedar Shingle & Handsplit Shake Bureau

PRODUCT A new fire-retardant roofing assembly utilizing cedar shakes and
(Explain the scope of use for which recognition is requested.)

asbestos felt interlay.

Mailing Address 5510 White Bldg. Seattle Wash. 98101
Address City State

Check whether application is for: New Request ☒ Re-examination ☐
of previous recommendation

DATA SUBMITTED Enclosed ☒ Under separate cover ☐ Please indicate

Please list data submitted. Note that 10 copies of all data are required unless application is for re-examination without change.

1. Letter of submittal.

2. "Fire Tests on Cedar Shake Roof Decks" by E. C. Research

Applicant agrees to abide by the requirements of the Uniform Building Code and the current rules of procedure of the Committee (the rules are incorporated by reference in this application) and any conditions attached to the approval of this application.

Red Cedar Shingle & Handsplit Shake Bureau
(Please Type or Print) Name of Applicant

State of Washington

County of King

City of Seattle

Subscribed and sworn to before me this

14th day of December 1972

Jean Dallen
Notary Public

(NEW APPLICATIONS WILL NOT BE PROCESSED
UNTIL CHECK OR MONEY ORDER IS RECEIVED)

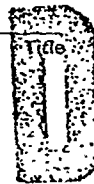
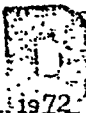
☒ Check or money order enclosed.

☐ Bill us.

Revised 2/6/70

V. G. Peterson
Signature

Secretary-Managers



DATE 12-19-72

CHECK NUMBER

4640

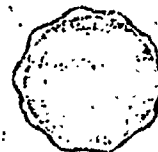
470⁰⁰

International Conference of Building Officials

360 SOUTH WORKMAN MILL ROAD

WHITTIER, CALIFORNIA 90601

TELEPHONE (213) 699-0511



NR

REPORT OF THE TECHNICAL DIRECTOR TO THE RESEARCH COMMITTEE

SUBJECT FIRE RETARDANT CEDAR SHAKE ROOF COVERING
COMPANY RED CEDAR SHINGLE AND HANDSPLIT SHAKE BUREAU
NAME V. G. Petersen
Secretary-Manager
ADDRESS 5510 White Building
Seattle, Washington

REPORT NO.
2860
DATE
January 11, 1973

F.S. 2/2/73
OK per T.D.

1. The following report on the subject noted above is sub-
2. mitted by the Technical Director and shall not be con-
3. sidered as an approved recommendation until final action
4. of the Research Committee.

5. I. INTRODUCTION:

6. At the request of the Red Cedar Shingle and Handsplit
7. Shake Bureau, Seattle, Washington, the Research Com-
8. mittee of the International Conference of Building
9. Officials has made an examination of the data submitted
10. in connection with the use of cedar shakes and asbestos
11. felt interlay fire retardant roof covering.

12. II. DESCRIPTION:

13. General: The roof consists of a minimum 1/2-inch thick
14. exterior grade solid plywood sheathing, asbestos felt
15. with glass fibers, and red cedar shakes. The plywood
16. complies with Chapter 25 of the Code. The asbestos felt
17. is No. 411 construction felt with glass strand reinforce-
18. ment as manufactured by Nicolet Industries, Inc. (weight
19. 12 pounds per square). The shakes are No. 1 grade hand-
20. split and resawn red cedar shakes 24 inches long with the

REPORT NO. 2860

21. butt end 1-1/4 inches thick and top end 3/4-inches thick
22. with various widths, and shall meet the requirements of
23. U.B.C. Standard 32-8.

24. Installation: The plywood shall be installed as set
25. forth in Chapter 25 with all joints backed with minimum
26. nominal 2 inch by 4 inch wood battens. The asbestos
27. felt underlay is installed at the first course of the
28. shakes and is interlaid from the butt of each overlying
29. course of shakes. The shakes shall be installed as set
30. forth in Section 3203 (d) 8 except that the asbestos felt
31. with glass fibers is used, in lieu of the asphalt felt.

32. Identification: (Proponent is to furnish the means by
33. which all material is to be identified in the field.)

34. III. EVIDENCE SUBMITTED:

35. Tests to determine the fire retardency for Class C roofing
36. in accordance with U.B.C. Standard 32-7 and Underwriters'
37. Laboratories No. 790-1969 are submitted.

38. IV. DISCUSSION:

39. A review of the data submitted indicates that a clari-
40. fication of the following items should be furnished:

41. 1. The method in which the shakes were fastened to the
42. sheathing in the test, including type of fasteners
43. and number.
44. 2. Roof slope in the test.
45. 3. Method of fastening the asbestos felt to sheathing

THIS IS NOT AN APPROVAL

REPORT NO. 2860

46. and shakes in test, including type of fasteners and
47. number.
48. 4. The test report indicates that spread of flame tests
49. were not conducted.
50. 5. Flying brand tests are indicated in the report which
51. implies that treated shakes were used.
52. 6. If treated shakes were used, rain and outside
53. weathering tests should be provided unless previously
54. submitted under other research recommendation.
55. 7. Since varying widths of asbestos felt were used in
56. the test, clarification is needed as to what is intended
57. for the approved installation.
58. 8. The intended method of field installation must comply
59. with Part II of this report. Any deviation contemplated
60. must be resolved prior to approval of this report.

V. RECOMMENDATION:

62. That this report be held for further study pending clari-
63. fication and furnishing data requested in Part II and IV
64. of this report.

65. D. R. Watson
66. Technical Director

67. DRW:VFM:pr
68.
69.
70.

THIS IS NOT AN APPROVAL

BIRD 013740

CLASS C POOF

RR 2860 NR

W. in this proposed working. See

INTRODUCTION :

The enclosed report from B.C. Research contains fire tests on seven different panels , and only those ~~paris~~ tests marked 1-A, 1-B and 1-C are relevant to the Research report and tests 2A- 2-B- 2-C and 2-D are not to be considered in the deliberations of this research request. All tests were conducted on roof slopes of 5/12.

While the spread of flame test does not appear as tested in this report such spread of flame test was conducted and passed prior to this test report.

The problem of getting a 13 ft. test deck in place was ^{impossible} insurmountable so it was decided by those attending and conducting the tests that the flying brand test under U/L 790 - 1969 was a much more severe test and if the fire did not spread upward in this test as defined under the spread of flame test it would not be necessary to conduct the spread of flame test.

DESCRIPTION :

The roof deck is to be 1/2" T & G plywood sheathing with an exterior glue line.

The plywood is to comply with Chapter 25 of the Uniform Building Code. The square edges of the plywood shall rest on a 2" x 4" ^{nominal width} wood block or roof structural member of not less than a wood 2" x 4" block covering not less than 1/2 of the 2" width. The plywood shall be nailed to the roof members in accordance with Chapter 25.

One ^{course} sheet of 36" asbestos felt shall be laid over the deck starting at the leading edge of the roof and tacked or stapled before the first course of shakes are applied. Wood shakes shall be of a ~~xxxxxx~~ nominal 3/4 to 5/4 butt thickness , 24" in length and of #1 grade. Shakes will then be applied as in Section 3203 Subsection 8, except that in the case of the felt shingled between each course such felt shall be an asbestos felt as in Standard 32-14. And such felt shall be 26" wide extending from the butt of the shake passing over the tip of the shake onto the sheathing and tacked or stapled in place. ~~Such felt may be white or brown in color.~~

IDENTIFICATION:

Identification for the shakes is to be as stated in Chapter 3203 and the felt as in
UBD Standard 32-14 with the exception that the felt may be colored brown
to approximate the color of the wood shakes. Shakes are not to be dipped or
pressure treated in any manner.

EVIDENCE SUBMITTED :

CONCLUSION: