

# REPAIR FOR COMMON BREAKS IN ROOF TRUSSES

MANY COMMON BREAKS IN SINGLE PLY TRUSSES CAN BE REPAIRED BY SCABBING THE DAMAGED MEMBER. THE WIDTH OF THE SCABS IS THE SAME AS THE WIDTH OF THE MEMBER TO BE FIXED. THE LENGTH IS DETERMINED BY THE LENGTH OF THE DAMAGED AREA PLUS THE LENGTH REQUIRED TO INSTALL THE NECESSARY FASTENERS. THIS DETAIL CAN BE USED TO REPAIR DAMAGED PLATES ON A SIMPLE SPLICE AS WELL.

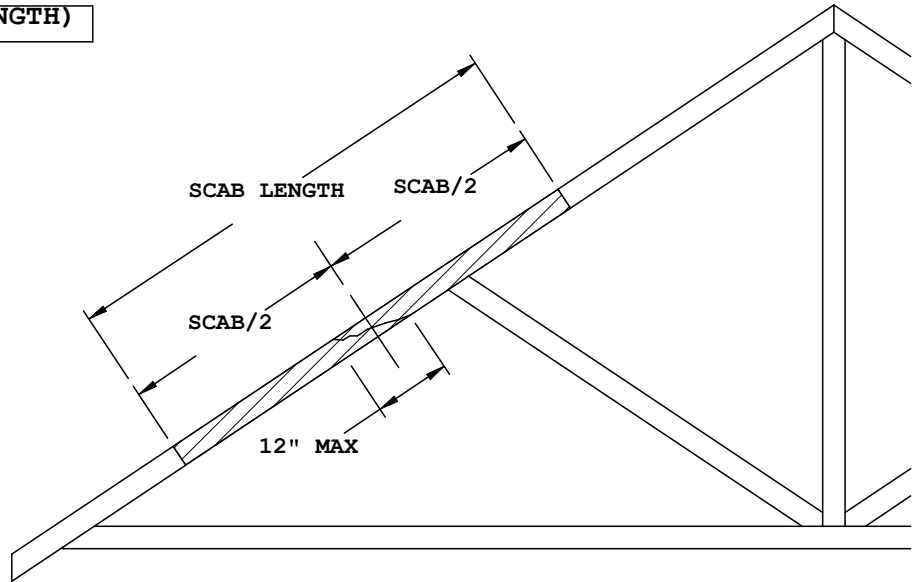
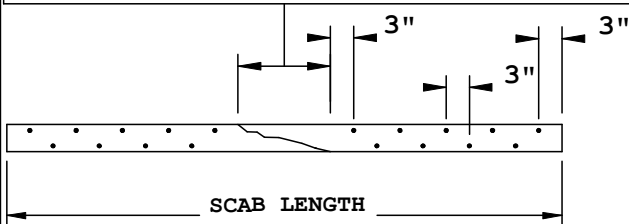
JOB NO. \_\_\_\_\_  
 TRUSS TYPE \_\_\_\_\_  
 MEMBER \_\_\_\_\_  
 FORCE \_\_\_\_\_  
 BNR \_\_\_\_\_

\*\*\* NOTE\*\*\* ALL MEMBERS MUST BE RETURNED TO THEIR ORIGINAL AND PROPER POSITIONS BEFORE BEGINNING REPAIR.

THIS REPAIR IS FOR 2X4 MEMBERS ONLY AND REQUIRES 0.131" X 3" NAILS AT 3" O.C. STAGGERED - BOTH SIDES OF THE TRUSS. IF MORE THAN 12" OF WOOD IS DAMAGED, THIS REPAIR CANNOT BE USED. BREAKS WITHIN 6" OF ANY JOINT CANNOT BE REPAIRED USING THIS DETAIL. BREAKS CLOSER THAN HALF THE SCAB LENGTH FROM THE MEMBERS END CANNOT BE REPAIRED USING THIS DETAIL. IF MORE THAN THREE BREAKS OCCUR IN ANY ONE TRUSS, THE TRUSS CANNOT BE REPAIRED USING THIS DETAIL.

REFER TO THE CHART BELOW TO DETERMINE THE LENGTH OF SCAB REQUIRED TO REPAIR A BROKEN MEMBER. A TOP CHORD REPAIR IS SHOWN, BUT ANY MEMBER CAN BE REPAIRED SUBJECT TO ABOVE LIMITATIONS.

**12" MAX. DAMAGED (OR SPLICE PLATE LENGTH)**



| SCAB LENGTH | MAX FORCE #2 SPF SCABS | MAX FORCE #2 SYP SCABS |
|-------------|------------------------|------------------------|
| 4 FT        | 820                    | 1060                   |
| 6 FT        | 1476                   | 1908                   |
| 8 FT        | 2132                   | 2756                   |
| 10 FT       | 2788                   | 3604                   |
| 12 FT       | 3444                   | 4452                   |



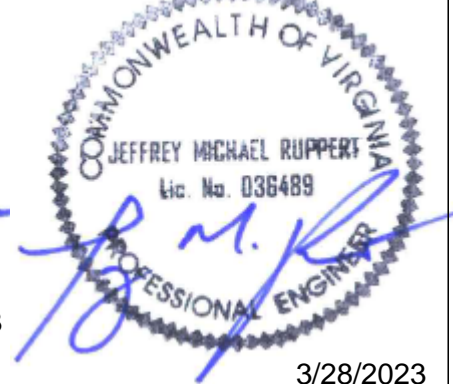
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I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland, License No. 49670, Expiration Date: 7/14/2024.

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| MAXIMUM LOADING |        |
|-----------------|--------|
| TC Live         | 30 PSF |
| TC Dead         | 10 PSF |
| BC Live         | 0 PSF  |
| BC Dead         | 10 PSF |
| Total           | 50 PSF |
| DurFac-Lbr:     | 1.15   |

ROOF DETAILS #1

MAX SPACING 24" O.C.