



Job Performance Review

Paratech Raker Shore System Operations

Individual Level Competency

JPR Title

Paratech Raker Shore System Operations

JPR Number

JPR-TR-8

Reference

NFPA 1670 – Standard on Operations and Training for Technical Search and Rescue Incidents
NFPA 1006 – Standard for Technical Rescuer Professional Qualifications
IFSTA Essentials of Firefighting
Paratech Product Specifications
MUSAR Training Foundation
ATFD Standards of Cover and Risk Analysis

Performance Criteria

Firefighter is able to articulate the various aspects of establishing the Paratech Raker Shore System and the assembly of such.

Time Parameters

15 minutes from staging to cross bracing

Safety Precautions

Space allocation to prevent injury to self or others while operating
Appropriate PPE
Attention to surroundings

Procedure

The firefighter is able to identify the following elements of the Raker Shore System:

- ✓ Long Shore Struts
- ✓ Long Shore Strut Extensions
- ✓ Raker Rail
- ✓ Splice Plate
- ✓ Rail Latch Base
- ✓ Raker Junction Base
- ✓ Raker Brace Nail Pad
- ✓ Hinged Base Plate
- ✓ Angle Base

Awareness for Raker System Insertion Point – Between Top of Floor Joist and with 2 feet Below Joist

45 Degrees Most Efficient for Load Transfer – 30 to 60 Degree Angles are Acceptable

Always Use Minimum of Two Rakers – No More Than 8 feet Apart – Tied Together with “X” Bracing (Typ. 5 Nail Pattern – 3” Nails Including Intersection)

Refer to Photograph Below for Set-Up Illustration



Note – The Load Cell Indicators are Considered an Extension and Should be Factored in with the Desired Angle and Strut Extension Arrangement

Each Load Cell Indicator is Measuring a Maximum of 10,000 lbs. Per Indicator. Further, a recent non-destructive testing session of the Paratech Raker System revealed a system failure at 18,000 lbs. when a load shift was exerted on the system. Each load cell recorded a pressure of 9,000 lbs. when the system failed.

For Additional Details Pertaining to the Paratech Raker Shores – Refer to the Job Aid on the Following Pages

Firehouse Software Evaluator Notes

Link to “General Training in the Rescue Section” of FHS

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