Rigging Information

Crosby® USER'S GUIDE LIFTING

ASME VERSION (8/10)

RISK MANAGEMENT

DEFINITION

COMPREHENSIVE SET OF ACTIONS THAT REDUCES THE RISK OF A PROBLEM, A FAILURE, AN ACCIDENT

ASME B30.9 REQUIRES THAT SLING USERS SHALL BE TRAINED IN THE SELECTION, INSPECTION, CAUTIONS TO PERSONNEL, EFFECTS OF ENVIRONMENT, AND RIGGING PRACTICES. SLING IDENTIFICATION IS REQUIRED ON ALL TYPES OF SLINGS

ASME B30.26 REQUIRES THAT RIGGING HARDWARE USERS SHALL BE TRAINED IN THE SELECTION, INSPECTION, CAUTIONS TO PERSONNEL, EFFECTS OF ENVIRONMENT, AND RIGGING PRACTICES. ALL RIGGING HARDWARE TO BE IDENTIFIED BY MANUFACTURER WITH NAME OR TRADEMARK OF MANUFACTURER.

REFER TO THE CROSBY GROUP CATALOG AND OTHER PRODUCT APPLICATION INFORMATION.

TERMINOLOGY

WORKING LOAD LIMIT (WLL)

THE MAXIMUM MASS OR FORCE WHICH THE PRODUCT IS AUTHORIZED TO SUPPORT IN A PARTICULAR SERVICE.

PROOF TEST

A TEST APPLIED TO A PRODUCT SOLELY TO DETERMINE INJURIOUS MATERIAL OR MANUFACTURING DEFECTS.

ULTIMATE STRENGTH

THE AVERAGE LOAD OR FORCE AT WHICH THE PRODUCT FAILS OR NO LONGER SUPPORTS THE LOAD.

DESIGN FACTOR

AN INDUSTRIAL TERM DENOTING A PRODUCT'S THEORETICAL RESERVE CAPABILITY; USUALLY COMPUTED BY DIVIDING THE CATALOG ULTIMATE LOAD BY THE WORKING LOAD LIMIT. GENERALLY EXPRESSED AS A RATIO, e.g. 5 TO 1.

Load Rated®

FOR ADDITIONAL SUPPORT

theCrosby® group.

P.O. Box 3128
Tulsa Oklahoma 74101
Phone: (918) 834-4611
Fax: (918) 832-0940
1-800-777-1555
Web:
www.thecrosbygroup.com
E-Mail:
crosbygroup@thecrosbygroup.com

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THE BASIC RIGGING PLAN

PLAN EVERY LIFT, INCLUDE THE FOLLOWING QUESTIONS WITH THE QUESTIONS YOUR EXPERIENCE PROVIDES:

1. **WHO IS RESPONSIBLE (COMPETENT) FOR THE RIGGING?**
2. **HAS COMMUNICATIONS BEEN ESTABLISHED?**
3. **IS THE RIGGING IN ACCEPTABLE CONDITION?**
4. **IS THE RIGGING APPROPRIATE FOR LIFTING?**
5. **DOES THE RIGGING HAVE PROPER IDENTIFICATION?**
6. **DOES ALL GEAR HAVE KNOWN WORKING LOAD LIMITS?**
7. **WHAT IS THE WEIGHT OF THE LOAD?**
8. **WHERE IS THE LOAD'S CENTER OF GRAVITY?**
9. **WHAT IS THE SLING ANGLE?**
10. **WILL THERE BE ANY SIDE OR ANGULAR LOADING?**
11. **ARE THE SLINGS PADDED AGAINST CORNERS, EDGES PROTRUSIONS AND ABRASIVE SURFACES?**
12. **ARE THE WORKING LOAD LIMITS ADEQUATE?**
13. **IS THE LOAD RIGGED TO THE CENTER OF GRAVITY?**
14. **IS THE HITCH APPROPRIATE FOR THE LOAD?**
15. **IS A TAG LINE REQUIRED TO CONTROL LOAD?**
16. **WILL PERSONNEL BE CLEAR OF SUSPENDED LOADS?**
17. **IS THERE ANY POSSIBILITY OF FOULING?**
18. **WILL THE LOAD LIFT LEVEL AND BE STABLE?**
19. **ANY UNUSUAL ENVIRONMENTAL CONCERNS?**
20. **ANY SPECIAL REQUIREMENTS?**

THE RIGGING MUST BE USED WITHIN MANUFACTURER'S RECOMMENDATIONS AND INDUSTRY STANDARDS THAT INCLUDE OSHA, ASME, ANSI, API AND OTHERS.

RESPONSIBILITY

USER RESPONSIBILITY

1. **UTILIZE APPROPRIATE RIGGING GEAR SUITABLE FOR OVERHEAD LIFTING.**
2. **UTILIZE THE RIGGING GEAR WITHIN INDUSTRY STANDARDS AND THE MANUFACTURER'S RECOMMENDATIONS.**
3. **CONDUCT REGULAR INSPECTION AND MAINTENANCE OF THE RIGGING GEAR.**
4. **PROVIDE EMPLOYEES WITH TRAINING TO MEET OSHA AND ASME (B30.9, B30.26, ETC.) REQUIREMENTS.**

MANUFACTURERS RESPONSIBILITY

1. **PRODUCT AND APPLICATION INFORMATION**
2. **PRODUCT THAT IS CLEARLY**
   IDENTIFIED NAME OR LOGO
   LOAD RATING AND SIZE
   TRACEABILITY
3. **PRODUCT PERFORMANCE**
   WORKING LOAD LIMIT
   DUCTILITY FATIGUE
   PROPERTIES IMPACT
   PROPERTIES
4. **PRODUCT TRAINING AND**
   TRAINING RESOURCES