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SECOND SCHEDULE

Regulations 34 (1), 36 (1) and 40

MANNER OF TEST AND EXAMINATION BEFORE TAKING ANY CHAIN, WIRE ROPE, LIFTING APPLIANCE OR LIFTING GEAR INTO USE

- (a) Every winch, and every derrick with the whole of the gear accessory thereto, shall be tested with a proof load which shall not be less than the following—

<i>Safe working load</i>	<i>Proof load</i>	
Under 20 tons	25 per cent.	in excess of the safe working load
20–50 tons	5 tons	
over 50 tons	10 per cent.	

In the case of a derrick with its accessory gear the proof load shall be applied as follows:—

- (i) where reasonably practicable by hoisting movable weights; or
 - (ii) in other cases by maintaining the load by means of an accurate spring or hydraulic balance or similar device for a period of not less than five minutes. Where movable test weights are used the derrick shall be swung, with the load suspended, as far as possible in both directions. Where a spring or hydraulic balance or similar device is employed it shall be sufficient if the proof load is applied with the derrick swung as far as practicable first in one direction and then in the other. In each case the derrick shall be tested at the smallest angle to the horizontal at which it will operate and this angle shall be stated in the certificate of the test.
- (b) Every crane, crab, sheer-legs, teagle, transporter or runway, with its accessory gear, shall be tested with a proof load which shall not be less than the following—

<i>Safe working load</i>	<i>Proof load</i>	
Under 20 tons	25 per cent.	in excess of the safe working load
20–50 tons	5 tons	
over 50 tons	10 per cent.	

In the case of a crane having a variable radius it shall be tested with a proof load applied at the maximum and minimum working radii. At each such radius the crane shall be swung as far as possible in both directions with the corresponding proof load suspended. In the case of hydraulic cranes where, owing to the limitation of pressure it is impossible to hoist a load 25 per cent. in excess of the safe working load, it shall be sufficient to hoist the greatest possible load.

- (c) Every article of lifting gear (whether it is accessory to any lifting appliance or not) and every pulley block other than a pulley block specially constructed for use with a crane to which it is permanently attached, and every chain shall be tested with a proof load at least equal to that shown against it in the following table:—

<i>Article of gear</i>	<i>Safe working load</i>	<i>Proof load</i>
Chain sling		
Rope sling		Twice the safe working load
Plate clamp		
Ring		

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<i>Article of gear</i>	<i>Safe working load</i>	<i>Proof load</i>
Link		
Hook (other than a ramshorn hook)		
Shackle		
Swivel		
Eye-bolt		
Ramshorn hook	Under 50 tons	Twice the safe working load
50 tons to 100 tons	Safe working loads plus 50 tons	
Over 100 tons	One and a half times the safe working load	
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<i>Pulley blocks</i>		
Single sheave block		Four times the safe working load
Multiple sheave block with safe working load up to and including 20 tons		Twice the safe working load
Multiple sheave block with safe working load over 20 tons up to and including 40 tons		20 tons in excess of the safe working load
Multiple sheave block with safe working load over 40 tons		One and a half times the safe working load
<i>Chains</i> (other than calibrated load chains)		Twice the safe working load
Calibrated load chains		One and a half times the safe working load

- (d) After being tested as aforesaid, every lifting appliance with the whole of the gear accessory thereto, every article of lifting gear and every chain shall be examined, and the sheaves and the pins of the pulley blocks shall be removed for the purpose of the examination, to see that no part is injured or permanently deformed by the test.
- (e) In the case of wire ropes, a sample shall be tested to destruction.