Average fixed load

Safe and effective operation of the hoist is dependent on correct classification of the hoist's operation group. According to FEM9.511 the hoist's operating group can be determined from load spectrum and average Daily operating time.	
1 Load Spectrum	
The load spectrum can be determined from the table below	
Light	
Occasional full load	
Usually light load	
Small fixed load	
Medium	
Occasional full load	
Usually light load	

Heavy
Repetitive full load
Usually average load
Heavy fixed load
Very Heavy
Usually almost full load
Very heavy fixed load
2 Average daily operating time
The average daily operating time of the hoist can be calculated from the running time of the hoisting machinery (Hours/day):
Formula
t=(2 x N x H x T)/(V x 60)

H = average hoisting height (m)
N = number of work cycles per hour (cycles/h)
T = daily working time (h)
V = hoisting speed (m/min)
3 Determining the operating group of the hoist
When the load spectrum and the average daily operating time of the hoist are identified, the hoist's operating group is obtained from the table below:
Load Spectrum
Average daily operating time
ISO(GB) / FEM
(hours per day)
≤0.5

≤1		
≤2		
≤4		
≤8		
≤16		
Light		
M3		
1Bm		
M4		
1Am		
M5		

3m

M7		
4m		
Heavy		
M3		
1Bm		
M4		
1Am		
M5		
2m		
M6		
3m		

1Am

M5

2m

M6

3m

M7

4m

4 Safe working principles

Carefully following safe working principles is one of the most effective ways of preventing damage to property and injury to personnel.

The operator, service man and work manager for the hoist should be familiar with the safe working principles for the hoist.

A service team from customer or third party trained by manufacturer for operating the hoist and any maintenance services is needed.

Misuse of the hoist or improper servicing may result in an accident that cannot be prevented by the safety equipment. Training in operation and servicing the hoist, foresight and care are essential in order to prevent accidents.