

GENERAL TOLERANCES UNLESS SPECIFIED				
X +/-0.50	X.X +/-0.25	X.XX +/-0.1	X +/-1°	X.X +/-0.5°

UNLESS SPECIFIED IN CONTRACT ALL WELDS MUST BE PRODUCED BY QUALIFIED WELDERS TO BS EN287-1: 2004 - WELDING SYMBOLS TO BS499-2: 1980 UNLESS SPECIFIED ALL TOLERANCES SHOWN ARE AFTER FINISHING TREATMENTS / PROCESS ARE APPLIED

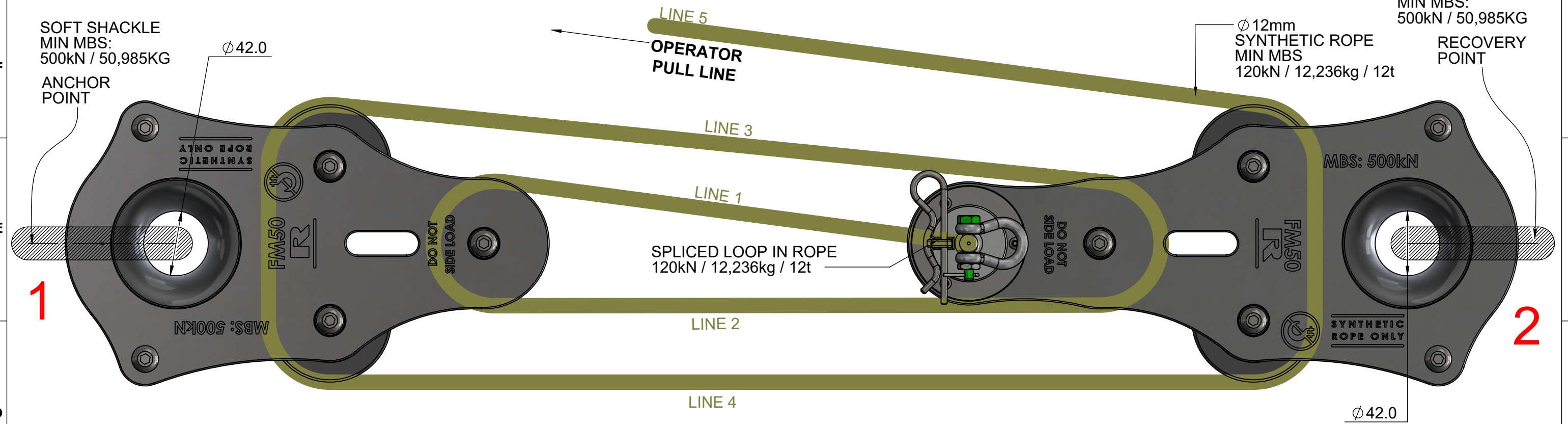
FLATNESS & SQUARE TOLERANCES:

M/C +/-0.2

FABRICATION: +/-1

# FM50 RECOVERY SYSTEM

SOFT SHACKLE  
MIN MBS:  
500kN / 50,985KG



**DO NOT USE THIS PRODUCT OR ANY RECOVERY PRODUCTS WITHOUT RELEVANT TRAINING IN THE CORRECT USE OF RECOVERY EQUIPMENT / PRODUCTS AND THEIR TECHNIQUES. FULLY UNDERSTAND AND BE AWARE OF THE LOADINGS ON ALL THE EQUIPMENT FOR THE RECOVERY TO TAKE PLACE AND BE SUCCESSFUL.**

### 1:5 FIDDLE PULLEY SYSTEM

**MBS: 500kN (50,985kg)**

EXAMPLE LOAD / VEHICLE TO BE RECOVERED, BETWEEN POINTS 1 & 2:

**LOAD IN RECOVERY SOFT SHACKLE AT RECOVERY POINT (1): 20,000KG**

- LINE 1: 4000KG
- LINE 2: 4000KG
- LINE 3: 4000KG
- LINE 4: 4000KG
- LINE 5: 4000KG - OPERATOR PULLING

LOAD ON SOFT SHACKLE AND ANCHOR POINT 1:  
**16,000KG - 5:1 Multiplier**

LOAD ON SOFT SHACKLE AND RECOVERY POINT 2:  
**20,000KG - 4:1 Multiplier**

### DISTANCES:

LINE 5 WILL ALWAYS MOVE 5 TIMES FURTHER THAN POINT 1 DUE TO THE 5:1 RATIO

IF YOU RECOVER A VEHICLE FOR 10m LINE 5 WILL TRAVEL THROUGH 50m

MAKE SURE YOU HAVE ENOUGH LINE FOR THE RECOVERY TASK BEING UNDERTAKEN



**WORKING TO MBS (NO SAFETY FACTOR):**  
MAX LOAD IN LINE 5 = 100kN / 10,197 kg / 10t

**SAFETY FACTOR OF 2:**  
LOAD IN LINE 5 = 50kN / 5,098KG / 5T

**SAFETY FACTOR OF 2.5:**  
LOAD IN LINE 5 = 40kN / 4,078KG / 4T

**THE FORCE YOU PULL WITH IN LINE 5, WILL BE MULTIPLIED BY A FACTOR OF 5 AT RECOVERY POINT 2 AND BY A FACTOR OF 4 AT ANCHOR POINT 1**

**500kg PULL IN LINE 5, WILL RESULT IN A 2,500kg PULL FORCE AT RECOVERY POINT 2 AND ITS SOFT SHACKLE**

<b>Red Winches</b> <a href="http://www.red-winch.com">www.red-winch.com</a> email: sales@red-winch.com		DRAWN	CHECKED	DATE
		CB	NB / NJ	05/02/2021
DRAWING DESCRIPTION:				
FM50 RECOVERY SYSTEM				
MATERIAL:				
SEE DETAIL DRGS				
FINISH:				
SEE DETAIL DRGS				
DRAWING NUMBER:				
FM50				
SCALE	REVISION	SHT		
	A	1	OF 1	
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**NSN #: 99-65-1042**