

# ROPEBLOCK

## WARNING AND APPLICATION INSTRUCTIONS

### GENERAL INFORMATION

- Always take care of visual inspection before using a socket and pin.
- Never use a part showing cracks.
- Do not side load a socket.
- Repair is not allowed, for repair contact your supplier.
- Never shockload a socket.

### SPELTER SOCKETS

- Proper spelter socket terminations have an efficiency of 100% of the breaking load of the wire. This can be limited by the minimum breaking load of the socket (MBL), as mentioned in the tables.
- Before use please carefully read the instructions of the resin or spelter manufacturer. Incorrect use of the resin or spelter material can result in an unsafe termination. More information can also be obtained from your wire rope supplier.
- Always clear the wire rope broom and socket basket from dirt and grease.
- Make certain that the broomed wires are evenly spaced in the basket, and that the wire and basket are aligned with each other.
- When using white metal or zinc, do not preheat the socket to more than 300°C (570°F).
- Make sure the base of the socket is properly sealed. This to prevent resin leakage, which may cause voids.
- Never use an assembly before the resin is fully hardened.
- Socketing should always be done by a qualified person.
- Due to constant improvements of our products, we reserve the right to change specifications accordingly.

### REQUIRED RESIN VOLUME FOR SOCKETING WIRE ROPE TERMINATIONS

For Wire Rope $\varnothing$		Approximate Resin Volume
mm	inch	in <sup>3</sup>
11 - 13	1/2	2
14 - 16	5/8	3
18 - 19	3/4	5
20 - 22	7/8	8
23 - 26	1	10
27 - 30	1.1/8	13
31 - 36	1.1/2 - 1.3/8	22
37 - 39	1.1/2	26
40 - 42	1.5/8	30
43 - 48	1.3/4 - 1.7/8	45
49 - 54	2 - 2.1/8	75
55 - 60	2.1/4 - 2.3/8	90
61 - 68	2.1/2 - 2.5/8	120
69 - 75	2.3/4 - 2.7/8	140
76 - 80	3 - 3.1/8	200
81 - 86	3.1/4 - 3.3/8	240
87 - 93	3.1/2 - 3.5/8	300
94 - 102	3.3/4 - 4	475
108 - 115	4.1/4 - 4.1/2	650
120 - 130	4.3/4 - 5	900

### MATERIAL CERTIFICATES

Additional material inspection and testing by authorized agencies is possible. If ordered a 3.1.C-EN 10204/DIN 50049 certificate can be supplied.

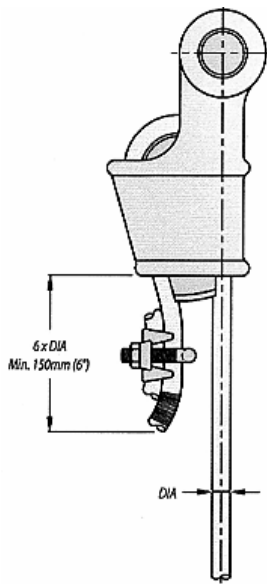


# ROPEBLOCK

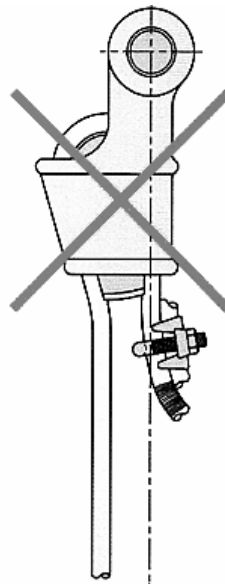
## WARNING AND APPLICATION INSTRUCTIONS

### WEDGE SOCKETS

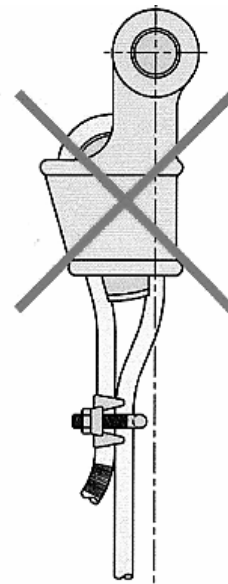
- Always mount the loaded part of the wire in the centre line of the pin (see figures).
- Secure the dead end with a wire rope clip.
- Do not attach the loaded wire to the dead end.
- The dead end should have a length of 6 times the wire diameter with a minimum of 6" inches.
- Inspect after the first load that the wire rope and wedge are fully seated.
- Load may slip if the connection is not properly installed.
- Inspect the connection regularly.
- The efficiency of a wire rope/wedge socket connection is 80% of the minimum breaking load of the wire but limited to the minimum breaking load of the socket (MBL).



RIGHT



WRONG



WRONG

### TESTING

Sockets can be proofloaded in accordance with the Ropeblock BV test program. Witnessing of non-destructive examinations by independent inspection agencies can be offered as an option. With our 300 tons tensile testing equipment, certified by TNO and approved by all major classification societies, we can offer additional proofload testing facilities.

