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Re: your last fax.

Enclosed please find our Opinion of the steel wire rope design programme „ROPES”.

Best regards.

- RANGE OF PRODUCTS:
- Steel wire ropes
 - Compound polypropylene-steel ropes
 - Steel wires
 - Wire rope slings
 - Cut wire shot
 - Steel fibres for concrete reinforcement

**DRUMET S.A.
PRESIDENT**

Eugeniusz Filipczyk

OPINION OF THE STEEL WIRE ROPE DESIGN PROGRAMME „ROPES”

We hereby certify that the computer aided steel wire rope design programme „ROPES” by Mr Javier Jimenez Atienza in course of the use of it since the beginning of 1995 has proven many times its great helpfulness in the designing process of steel wire ropes.

The „ROPES” programme has been modified to some extent during this time acc. to the particular needs of „Drumet”. Some options of it have been extended so as to meet additional requirements resulting from peculiarities of the production in Poland.

The programme practically made it possible to eliminate expensive technological tests at introducing a new production or technological changes in existing products. Now all the technological modifications conc. steel wire ropes are at first being subjected to thorough analysis using the computer aided steel wire rope design programme. Diversified designing with graphical presentation of the results on the monitor display in the form of drawings of rope and strand sections enables the best possible determination of the final construction of a rope which has been ordered for production.

The „ROPES” programme showed its usefulness especially at designing the complicated multilayer ropes (e.g. WS 8 x 31 + IWRC (WS 6 x 31 + FC) and the ropes with limited dimensional tolerance of wires (half the value required by DIN 2078) or a finished rope, i.e. -0%+3%.