

Pendent character of fabric wood chute

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Fabric wood chute was developed recently as a simple hauling device. The purpose of this study is to clarify physical character of a fabric wood chute and to derive practical formula of a midspan sag and maximum tension for secure use of a fabric wood chute. For this purpose, the theoretical formula for describing a general cable line form was extended. As a result, elongation rate of the fabric wood chute was directly proportional to mass of a load while the rate of wire rope was constant. Furthermore, the approximation of the midspan sag and maximum tension would be calculated for the midspan sag-span ratio on the basis of the parabolic theory.

keywords:

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