

# DESIGN GUIDE

## Earthmoving Equipment Tyres

INDEX	PAGE
TYRE SIZE DESIGNATION	EM.1, EM.2
CALCULATION OF TYRE DIMENSIONS	EM.3
NOMINAL SECTION WIDTH STEPS	EM.4
RIMS	EM.4
GUIDELINES FOR CALCULATION OF MINIMUM FLAP WIDTH	EM.4
GUIDELINES ON HARMONISATION OF LOAD CAPACITIES	EM.4
GUIDELINES FOR INFLATION PRESSURE TOLERANCES	EM.4
GUIDELINES FOR MAXIMUM OVERALL DIAMETER	EM.4
GUIDELINES FOR LOAD CAPACITIES	EM.5
METRIC DESIGNATED '65' SERIES – RADIAL	EM.6
DIMENSIONS FOR METRIC DESIGNATED '65' – RADIAL	EM.6
GUIDELINES FOR FUTURE DEVELOPMENTS	EM.6
LOAD SPEED TABLE FOR MOBILE CRANE	EM.7
GUIDELINES FOR DESIGN TREAD DEPTH (MOLD) - TYRES ON 5° RIM CONTOURS	EM.8

### TYRE SIZE DESIGNATION

#### DIMENSIONS AND CONSTRUCTIONAL CHARACTERISTICS

Future series of tyres shall be designated by a size marking in three parts as follows:

Nominal Section Width / Aspect Ratio – Nominal Rim Diameter Code.

Note: The Sub-Committee will decide whether codes or millimeters or both may be used as unit for the Nominal Section Width Code.

#### ADDITIONAL MARKINGS

##### *Types of Construction*

Diagonal Ply construction will not be separately marked.

Radial Ply construction will be identified in the tyre size designation by the code letter R placed between the nominal aspect ratio and the nominal rim diameter code. In addition, the word RADIAL may also appear on the tyre.

##### *Preferred Direction of Rotation*

The marking to indicate the preferred direction of rotation, if required, shall be an arrow.

##### *Code System for Tyre Usage*

See the Standards Manual.

The use of identification codes is optional at the discretion of the individual tyre manufacturer.