

# DURASET CONCRETE SLEEPERS

THE INTELLIGENT CHOICE



## DESIGN FEATURES

- Duraset Sleepers are manufactured with 60MPa concrete, reinforced with high tensile prestress wires. This enables the sleeper to perform even under the most adverse railtrack conditions
- The 1:20 built-in cant provides proper rail-to-wheel contact, ensuring optimum performance
- Cast-in shoulders ensure consistent, accurate track gauge
- Pandrol elastic rail fastening system provides a reliable clamping force
- High sleeper mass provides greater track stability
- Re-usable due to its long life span
- Gauge widening facility reduces wear on wheels and rails
- Our Quality Management System is ISO 9001:2000 certified.

## THE MINECLIP SYSTEM

- Low profile shoulder reduces derailment damage
- 10-tonne system pad has an upstand that replaces the loose GPI
- Rotate pads to achieve gauge widening
- Pads on 5- and 10-tonne systems eliminates rail seat abrasion and is necessary to maintain the clamping force
- Pre-assembled and delivered as a captive system
- Less waste through loss of loose components
- Easy to install



**DURASET**

THE **AVENG** GROUP

## CONCRETE MINECLIP SLEEPERS

Sleeper Identification	Nominal Gauge (mm)	Rail Mass (Kg/m)	Max. Axle Load (tonne)	Max Sleeper Spacing (mm)	Sleeper Mass (Kg)	Sleeper Length (m)	Sleeper Width (m)	Sleeper Height (m)
610-30-10 mc	610	30	10	800	67	1,150	0,200	0,140
610-40-10 mc	610	40	10	800	67	1,150	0,200	0,140
750-30-10 mc	750	30	10	800	76	1,350	0,200	0,140
750-40-10 mc	750	40	10	800	76	1,350	0,200	0,140
762-30-10 mc	762	30	10	800	76	1,350	0,200	0,140
762-40-10 mc	762	40	10	800	76	1,350	0,200	0,140
914-30-10 mc	914	30	10	800	92	1,625	0,200	0,140
610-15-5 mc	610	15	5	750	37	1,140	0,128	0,118
610-22-5 mc	610	22	5	750	37	1,140	0,128	0,118
610-30-5 mc	610	30	5	750	37	1,140	0,128	0,118
750-22-5 mc	750	22	5	750	43	1,295	0,128	0,118
750-22-7 mc	750	22	7	750	54	1,300	0,135	0,148
750-30-7 mc	750	30	7	750	54	1,300	0,135	0,148
762-22-5 mc	762	22	5	750	43	1,295	0,128	0,118
762-30-5 mc	762	30	5	750	43	1,295	0,128	0,118
914-22-7 mc	914	22	7	750	61	1,458	0,135	0,148
914-30-7 mc	914	30	7	750	61	1,458	0,135	0,148
22kg Beam EC	-	22	5	750	55	0,750	0,320	0,117
30kg Beam EC	-	30	5	750	55	0,750	0,320	0,117

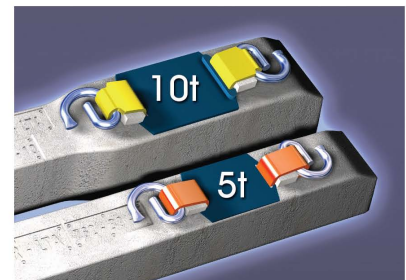
## APPLICATIONS

### 10t Duraset Sleeper

- Axle load > 5 tonne ≤ to 10 tonne
- Tonnes trammed (including rolling stock) ≥ 400 000 tpa
- Mineclip clamping force - a maximum of 800kg/clip
- Haulage lifespan > 5 years

### 5t Duraset Sleeper

- Axle load ≤ 5 tonne
- Tonnes trammed (including rolling stock) < 500 000 tpa
- Mineclip clamping force - a maximum of 400kg/clip
- Haulage lifespan ≤ 5 years



Sleeper	Clip type	Pads
10-tonne system 40kg rail 30kg rail	ef 1411 ef 1411	3mm HDPE with Up stand & GW* 3mm HDPE with Up stand & GW*
5/7-tonne system 22kg rail 30kg rail	ef 1102 ef 1102	5mm HDPE 3mm HDPE
Beams 22kg rail 30kg rail	e 1405 e 1405	n/a n/a

\* GW = 6mm gauge widening with upstand

**SABS**  
ISO 9001

**HEAD OFFICE**  
670 Power Road,  
Industries West  
Germiston, 1450  
South Africa

Tel +27 (0) 11 876 5040  
Fax +27 (0) 11 873 3532

**SALES OFFICE**  
30 van der Bijl Street,  
Westonaria,  
1780  
South Africa

Tel +27 (0) 11 411 4500  
Fax +27 (0) 11 411 4507

[www.duraset.com](http://www.duraset.com)

  
**DURASET**

THE AVENG GROUP