








## Load testing of the Forte Nondo Cover

### Load Ratings for Class E

Fieldtech Solutions' own brand manufactured well cover the Forte Nondo was tested to Class E load ratings

LOAD CLASSIFICATIONS OF COVERS AND GRATES							
AS3996:2006 – ACCESS COVERS, ROAD GRATES & FRAMES							
							
RATING	CLASS A	CLASS B	CLASS C	CLASS D	CLASS E	CLASS F	CLASS G
TYPICAL USE	Areas (including footways) accessible only to pedestrians & pedal cyclists & closed to other traffic (extra light duty)	Areas (including footways & light tractor paths) accessible to vehicles (excluding commercial vehicles) or livestock (light duty)	Malls and areas open to slow moving commercial vehicles (medium duty)	Carriageways of roads & areas open to commercial vehicles (heavy duty)	General docks & aircraft pavements (extra heavy duty - E)	Docks & aircraft pavements subject to high wheel loads (extra heavy duty - F)	Docks & aircraft pavements subject to very high wheel loads (extra heavy duty - G)
NOMINAL WHEEL LOADING Kg	330	2,670	5,000	8,000	13,700	20,000	30,000
SERVICE-ABILITY DESIGN LOAD kN	6.7	53	100	140	267	400	600
ULTIMATE LIMIT STATE DESIGN LOAD kN	10	80	150	210	400	600	900

Results table shown below.

# FieldTech Solutions

Products for a Sustainable Environment

Ph 03 9676 9664

sales@fieldtechsoln.com

<b>TEST WORKSHEET</b>		<b>GATIC</b>		
Product Description		9-15 Redford Rd Reservoir Melbourne Vic 3073 Australia Ph: +61 (03) 9460 7000		
Cast Iron Well Cover 140mm/40				
Gatic Code # (Component)	Load Block Size	Material	Load Class	
	40mm	CAST IRON	E	
Gatic Code # (Assembly)	Test Rig Type	Load Location	Support Conditions	
FORTE NONDO	1200KN	Centre	Circular	
Test Standard	Test Type	Type Load	Proof Load	
AS 3996:2006 CLASS E	TYPE	125.45	83.75	
Test Rig Type	Clear Span	Load Cycles		
LOAD TESTER	140mm	5		
Batch Traceability				
MAY 2014				

LOAD KN	CYCLE 0	CYCLE 1	CYCLE 2	CYCLE 3	CYCLE 4	CYCLE 5
0	0.55	0.59	0.63	0.65	0.67	
83.75	2.97	3.00	3.02	3.03	3.04	
0	1.03					
125.45	3.74					

**Allowable Permanent Set (mm)**

Load Reduction factor: 25 per clause  
 AS 3996:2006 4:2:1 Table 4.1A C0 ≤ 250mm  
 Perm Set C0 ≤ 500 = 1mm  
 Max Deflect C0/45 = 140/45 = 3.11mm.

Witnessed/Checked by	Tested by	Test Date
Simo Salehi	Mark Buhin	16/5/2014