

13 May 2009

Mr Dan Batchelor
Urban Paving & Landscape Supplies Limited
P O Box 20 298
Bishopdale
CHRISTCHURCH



6-JUPLS.09/6LC (3351)

Dear Dan

EXPOSED AGGREGATE PAVING SLABS

The two exposed aggregate paving slabs submitted to this laboratory for slip resistance and breaking load determination have been tested in accordance with your brief.

In performing the breaking load test we referred to the requirements of Table 1, Paver Selection of *NZS 3116:2002 Concrete Segmental Paving*. The applications available in Table 1 permit your exposed aggregate paver slabs to be used in category 1-3. This infers your slabs are suitable for residential pedestrian (1) through to public footpaths (3) including residential driveways (2), light traffic only.

The breaking loads applied are in accordance with *AS/NZS 4456.5:1997 Determining Breaking Loads of Segmental Paving Units*, and the slip resistance values were achieved by method *ASTM E303 Surface Frictional Properties using the British Pendulum Tester*.

If I can be of further assistance to you in interpreting these values do not hesitate to contact me.

Yours faithfully
Opus International Consultants

Geoff Jones
Laboratory manager

**BREAKING LOAD & SURFACE FRICTIONAL PROPERTIES
TEST REPORT**

Project : Quality Assurance Testing
 Location : Urban Paving & Landscape Supplies Limited
 Client : Dan Batchelor
 Contractor : UPLS Limited
 Sampled by : Dan batchelor
 Date sampled : 7 May 2009
 Sampling method : Not Advised
 Sample description : Exposed Aggregate Paving Slab (Pedestrian)
 Sample condition : Dry as received



Project No : 6-JUPLS.09/6LC
 Lab Ref No : 3351
 Client Ref No : Dan Batchelor

Test Results				
AS/NZS 4456.5:1997 DETERMINATION OF BREAKING LOAD OF SEGMENTAL PAVING UNITS				
	#1	#2	#3	
a) Lot Number:				
b) Dimensions (mm):	153x99x43	151x99x42	157x99x42	
c) Preconditioning:	Dry	Dry	Dry	
d) Breaking Load (kN):	4.92	6.56	5.48	
e) Mean Breaking Load (kN):		5.65		
f) Modulus of Rupture (MPa):	5.90	8.41	7.06	
g) Mean Modulus of Rupture (MPa):		7.12		
ASTM E303-1983 METHOD FOR SURFACE FRICTIONAL PROPERTIES USING THE BRITISH PENDULUM TESTER				
	#1 (Dry)	#1 (Wet)	#2 (Dry)	#2 (Wet)
a) Lot Number:				
b) Individual British Pendulum Number (BPN):	65 70 65 65 70	60 60 60 62 60	67 68 66 70 65	60 60 61 63 60
c) Average British Pendulum Number (BPN):	67	60	67	61
d) Co-efficient of Friction (COF):	0.76	0.67	0.76	0.68
e) Ambient Test Temperature (°C):			15	

Date tested : 11 May 2009
 Date reported : 13 May 2009

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Approved

Designation : Laboratory Manager
 Date : 13 May 2009