

Project Description

Project Name: Rua Manoel Lopes Filho Owner: Granfpolis Zip Code:
 Designer's Name: Eng. Vinícius Feller Route:
 Project Description: Projeto de pavimento em concreto.

Design Summary

	Doweled	Undoweled		Doweled	Undoweled
Recommended Design Thickness:	155.00 mm	155.00 mm	Maximum Joint Spacing:	2.89 m	2.89 m
Calculated Minimum Thickness:	155.70 mm	155.70 mm			

Pavement Structure

SUBBASE

Calculated Composite K-Value of Substructure: 95.3 MPa/m

Layer Type	Resilient Modulus	Layer Thickness
JOINTED PLAIN CONCRETE SURFACE		
Granular Base	172 MPa	150 mm
SUBGRADE		

CONCRETE

Compressive Strength: 30 MPa Edge Support: Yes
 Modulus of Elasticity: 27500 MPa Macrobbers in Concrete: No
 Calculated Flexural Strength: 4 MPa

SUBGRADE

CBR: 6 %
 Calculated MRSG Value 46 MPa

Project Level

TRAFFIC

Spectrum Type: Collector
 Design Life: 20 years

USER DEFINED TRAFFIC

Trucks Per Day: 50
 Traffic Growth Rate %: 3 % per year
 Directional Distribution: 50 %
 Design Lane Distribution: 100 %

GLOBAL

Reliability: 95 %
 % Slabs Cracked at End of Design Life: 5 %

Avg Trucks/Day in Design Lane Over the Design Life: 34
 Total Trucks in Design Lane Over the Design Life: 245.360

Design Method

The PCA design methodology from StreetPave, was used to produce these results.