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Internationale des Laboratoires d'Essais et de Recherches sur les Matériaux et les Constructions

RILEM Task Group 2

Mixture Design and Compaction

From: Vincent Dubois, LCPC - FRANCE

To: Carl M. Johnson

Date: August 13, 2007

Re: Detailed information on materials of the project

You can find below the detailed information on materials to study in the framework of our project.

Type of materials: BBSG 0/14 (bituminous concrete)

The granular part is compounded of:

- 20 % aggregates 10/14 from La Noubleau quarry (specific gravity = 2,870),
- 23,5 % aggregates 6/10 from La Noubleau quarry (specific gravity = 2,870),
- 21 % aggregates 2/6 from La Noubleau quarry (specific gravity = 2,870),
- 34 % sand 0/2 from Cusset quarry (specific gravity = 2,720),
- 1,5 % fines from Airvault quarry (specific gravity = 2,720).

The below table shows the granular distribution of the aggregates.

Sieve size (mm)	0.08	0.315	1	2	4	6.3	8	10	12.5	14	20
Passing sieve (%)	7.6	15.8	28.6	36.4	46.8	58.6	68.5	79.6	92.7	97.2	100.0

The binder, from Elf petroleum, is a 35/50 grade bitumen. The binder content in the mix is 5,4%.

During the study carried out at the fatigue test track of the LCPC in 1999, 1000 kg of bulk asphalt and six plates 600mm×400mm were sampled. The bulk density have been stored in 30 buckets.

Sincerely yours.

Vincent Dubois.