



Gap Graded Test Road Section Construction

St. Petersburg
October 06, 2013



TEST ROAD SECTION LOCATION AND CONSTRUCTION INFORMATION

Project Location: St. Petersburg, Russia,
Ringway (south)

Date and time: 06/10/2013 13:00-15:00

Producer and contractor:

"Asphaltobetonny Zavod N1"

Plant: BENINGHOFEN

Pug Mill Capacity – 4 tones

Length of section: 300 m

The layer thickness: 5 cm

Type of mixture: GAP Grade

Bitumen content: 5,6%

RuBind content: 3,4%

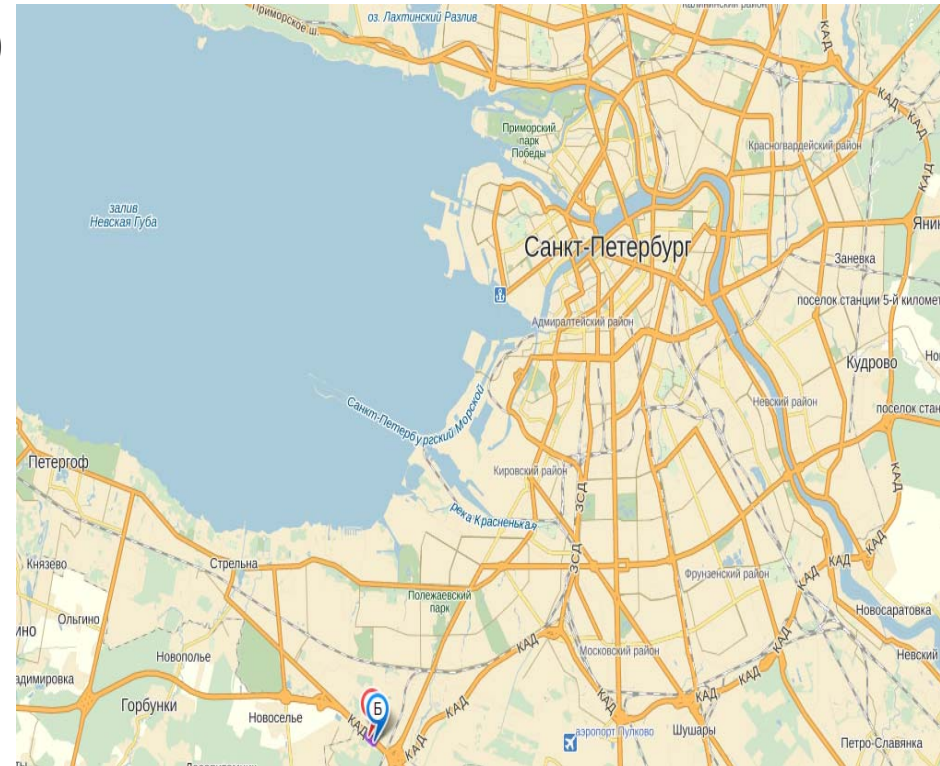
Ambient temperature: +7C to +9C

Temperature of the mixture:

at the plant: 180C

during compaction: 160C

St. Petersburg, Russia



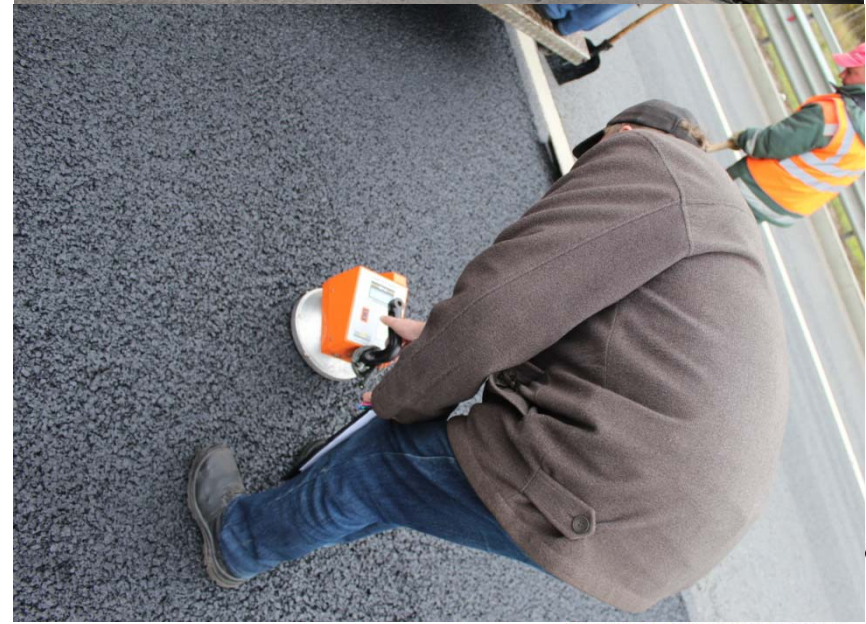
MIX PRODUCTION



MIX PRODUCTION



PLACEMENT AND COMPACTION



PHYSICAL-MECHANICAL PROPERTIES OF ASPHALT CONCRETE MIX

PARAMETERS	Requirements of GOST 31015- 2002	actual values	
		GAP Grade with RuBind	Common used SMA 15
Density, g/cm ³	-	2,51	2,64
Porosity,% by volume	1,0-4,0	2,0	2,1
Compressive strength, MPa, at temperatures: +20°C	≥2,2	6,1	2,8
+50°C	≥0,65	1,0	0,8
Draindown, %	≤0,2	-	0,20
Water resistance/ long-term water resistance	≥0,85	1,0 0,91	1,0 0,89
Abrasive wearing by the Prall method, ml, EN 12697-16)	-	11	20
The rut depth after 20,000 wheel passes, mm (+60°C) EN 12697.22	-	1,2	3,8

Flexural Fatigue 10 Hz, 20°C, 600 Micro Strain

