

## Sonic Road

# MERODY PAVE



**An example of construction**  
 A children's song, "Fujinoyama" was constructed on a scenic road, "Lake Ashi Skyline" located on the prefectural boarder between Kanagawa and Shizuoka. A melody is played for about 30 seconds if you travel through this route on which MELODY PAVE was constructed for about 300 meters.

You can listen to the melody on the website.  
[http://www.nippo-c.co.jp/tech\\_info/general/SG02057\\_g.html](http://www.nippo-c.co.jp/tech_info/general/SG02057_g.html)

Sticking out its head above clouds,



## What is MELODY PAVE?

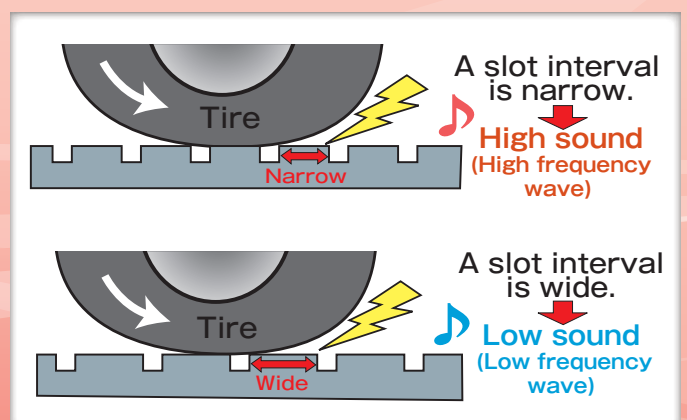
It is a pavement method which constructs pavement with grooving that makes groove intervals change variously prepared perpendicularly to the traveling direction. A melody can be heard from a road surface if a vehicle travels through this road.

Although there had been some pavement methods with some grooves formed which provide high road surface drainage nature, slide resistance, and warning with sound or vibration, etc. conventionally, MELODY PAVE gives a completely new function "that a road surface plays music" in addition to existing pavement functions, and offers a safe and pleasant drive.

## How can MELODY PAVE play music?

The musical pitch (high or low) of a MELODY PAVE is decided by how many grooves there are on the road surface on which a vehicle traveling at a fixed speed passes for a definite period of time. In other words, the more grooves are there in the section (groove interval is narrower), the higher sound is generated, and the fewer grooves are there (groove interval is larger), the lower sound is generated.

When a vehicle passes the road, a road surface sound can be heard as a melody, because grooving which make groove intervals change variously are formed perpendicularly to the traveling direction in consideration of the speed of a vehicle, and musical pitch and phonetic value the music.



## Feature of MELODY PAVE

- **Comfortable Driving** A pleasant drive is produced by a melody heard from a road surface.
- **Contribution to Regional Development** Regional development and regional publicity can be planned by selecting a local song or a tune suited for the scenery.
- **Guidance of Speed** The running speed of a vehicle can be guided by making the driver accelerate or slow down the car to hear the melody.
- **Antiskid Control** Since drainage and slide resistance nature of a road surface improves, hydroplaning phenomena and slip properties can be controlled.
- **Alertness and Awakening** Awakening effects will be given to careless drivers. It also prevents wild animals from approaching the road.

Note: The melody cannot be heard easily in the following cases.

- If a vehicle is traveling at unreasonable speeds.
- With large-sized vehicle such as a truck, a dump truck, and a bus, etc. or a two-wheeled vehicle
- Traveling in rainy weather



"Fujinoyama" can be heard ahead if you travel on the MELODY PAVE road at 40km/h.

Placing a sign before the constructed block will enhance the speed control effect of MELODY PAVE.

## Ideal conditions and expected effects

- **Roads in tourist resorts** Comfortable drive/Prevention of drowsy driving/Contribution to regional development.
- **A place where many vehicles run at excess speeds** Speed guidance (Slowdown guidance)/Prevention of accidents.
- **Sag sections and mild slope where driving speed tends to be reduced automatically**  
Speed guidance (Speed-up guidance), Traffic congestion control.
- **Routes with a good view where accidents occur frequently** Alertness/Awakening/Accident prevention.
- **Places where accidents by roadkill are concerned** Prevention of roadkills.

Note : The following places are unfit for MELODY PAVE. Intersections and the roads near intersections, roads where traffic jams occur constantly, roads near private houses, steep hills, and sharp curves, etc. If there is a bridge joint or a crossing ditch in the section where grooves are formed, the sound is interrupted just for a second, however, the melody can be heard naturally.

## Construction methods



A special-purpose machine is used.



Grooving is formed perpendicularly to the traveling direction.



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