

## DETERMINATION OF STRIPPING VALUE OF AGGREGATES

### STANDARD

- IS: 6241-1971.

### DEFINITION

- The stripping value of aggregates is determined as the ratio of the uncovered area observed visually to the total area of aggregates, expressed as a percentage.

### APPARATUS

- Heat resistant glass beaker of 500 ml capacity.
- 20mm and 12.5mm IS sieves.
- Mixer.
- Balance of capacity 10Kg and sensitivity 1gram.
- Water bath preferably with a thermostat.

### PROCEDURE

- Take 200 grams of dry and clean aggregates passing 20mm and retained on 12.5mm sieves and heat up to 150<sup>0</sup>C.
- Take five percent by weight of bitumen binder and heat up to 160<sup>0</sup>C.
- Mix the aggregates and the binder till they are completely coated and transfer the mixture in to a 500ml beaker and allow to cool at room temperature for about 2 hours.
- Add distilled water to immerse the coated aggregates.
- Cover the beaker and keep in a water bath maintained at 40<sup>0</sup>C taking care that the level of water in the water bath is at least half the height of the beaker.



Bitumen coated aggregates  
kept in distilled water



Aggregates kept out side for  
observation of stripping of bitumen coating

- After 24hours take the beaker out, cool at room temperature and estimate the extent of stripping visually while the specimen is still under the water.

#### **REPORT**

- Express the stripping value as the ratio of the uncovered area observed visually to the total area of aggregates in each test.
- Report the mean of three results as stripping value of the tested aggregates to the nearest whole number.

#### **PRECAUTION**

- Care shall be taken while mixing aggregates with bitumen.

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**FORM D36**

**Punjab State Road Sector Project**  
**PWD B&R Branch, Govt. of Punjab**  
 Punjab Roads & Bridges Development Board

**DETERMINATION OF STRIPPING VALUE OF AGGREGATES**  
 (IS 6241)

Source/Location : \_\_\_\_\_ Size of Lot : \_\_\_\_\_  
 Material : \_\_\_\_\_ Date of Sampling : \_\_\_\_\_  
 Size of Sample : \_\_\_\_\_ Date of Testing : \_\_\_\_\_

Determination No.			
Type of Aggregate			
Type of Binder			
% Binder Used			
Total Weight of Aggregates			
Total Weight of Binder			
Temperature of Water Bath, °C			
Stripping Value, %			
Mean Stripping Value, %			

Remarks : \_\_\_\_\_

Approved /Not Approved:

\_\_\_\_\_  
Contractor's Representative

\_\_\_\_\_  
Materials Engineer  
Consultant

\_\_\_\_\_  
Resident Engineer  
Consultant