## ACOUSTIC GROUP

# Application of Sylomer in Russia by Acoustic Group

December 13<sup>th</sup> 2010 Customers of Acoustic Group

#### PROJECTS

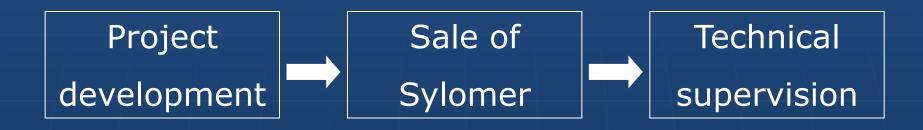
Typical solutions (without project)

#### RETAIL

We control all stages of Sylomer application and final result

We give only recommendation of Sylomer application We know nothing about Sylomer application

#### Scheme of our projects



Completed projects:

- ROCKWOOL training center, Zheleznodorognii
- Business center, Ozerkovskaya st., Moscow
- Hotel Mercure, Smolemskaya sq., Moscow
- Mariinsky Teater, Saint-Petersburg
- etc.

TOTAL: 12

Projects in progress: 7

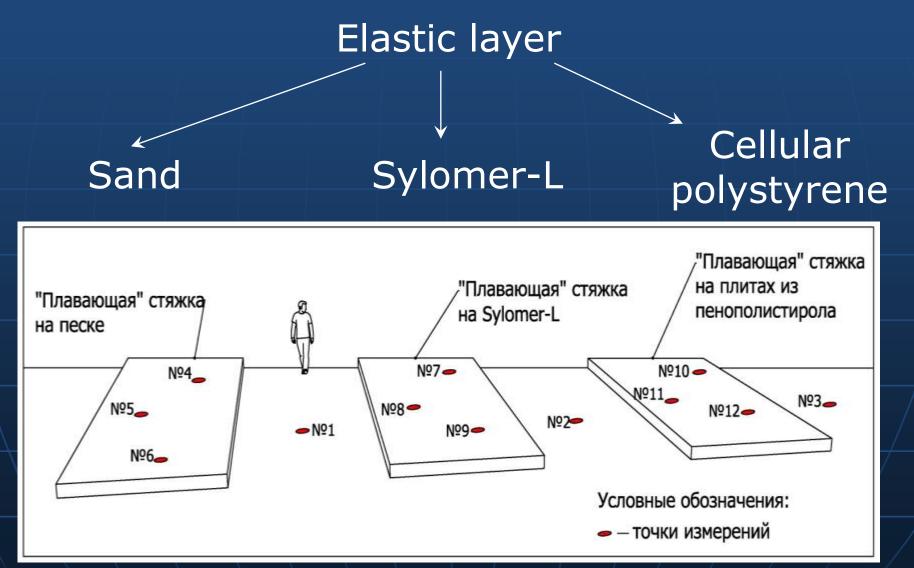
#### Example of our project

Object: Hotel Mercure Address: 28, Smolenskaya sq., Moscow

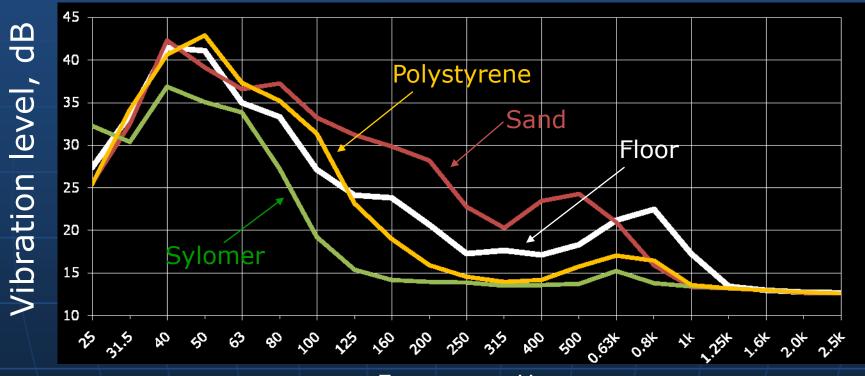
#### Problems:

- noise and vibration from metro;
- vibration of engineering equipment;
- customer's doubt about necessity of application Sylomer.





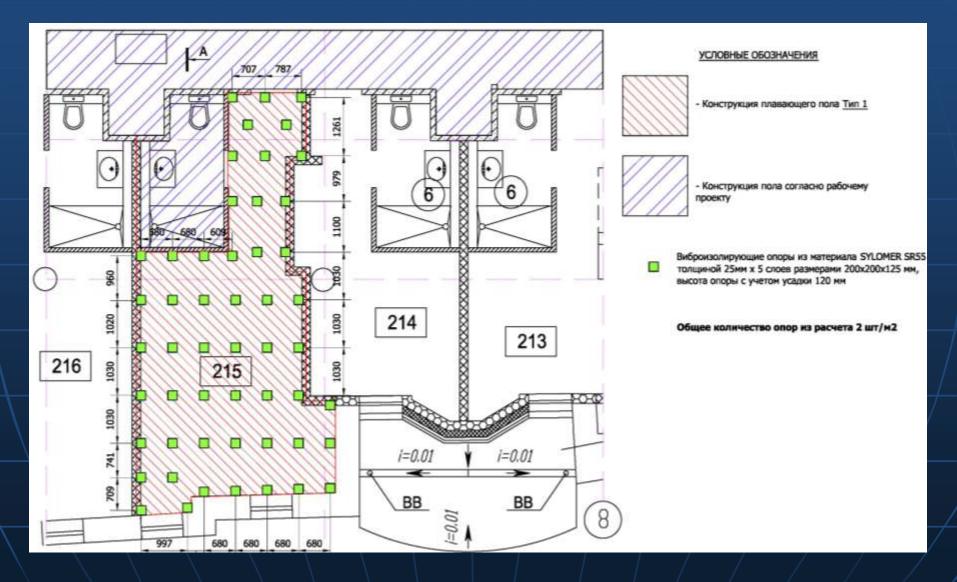
#### **Results of measurements**



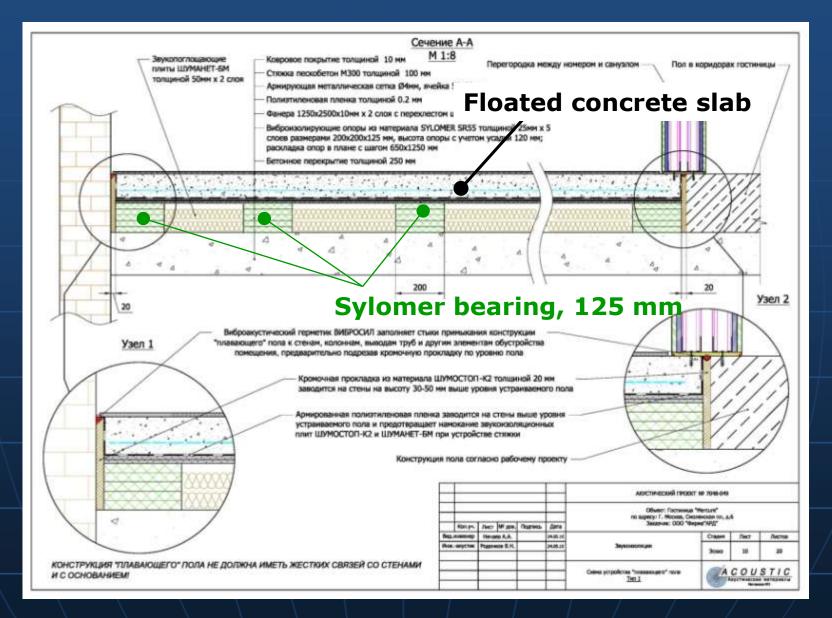
Frequency, Hz

Sylomer was selected as elastic layer of floating floor.

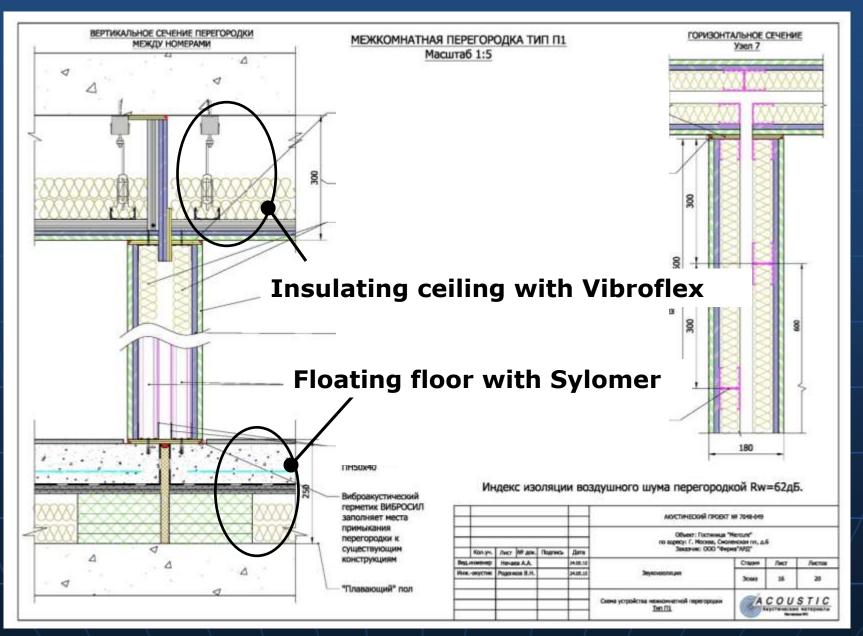
### Typical hotel room



### Floating floor



#### Main idea is "Separated boxes"



### Installation of floating floor Sylomer bearing



### Installation of floating floor Sylomer bearing



### Installation of floating floor Sylomer bearing with mineral wool

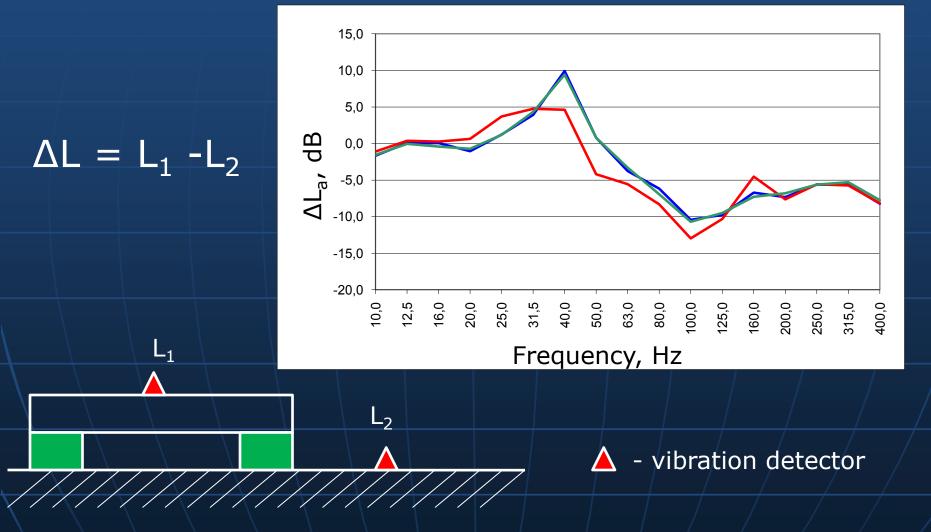


### Installation of floating floor Concrete slab is completed



# Partitions are installed on the floating floor

# Vibration insulation by the floating floor



Typical constructions with Sylomer (they can be proposed without project)

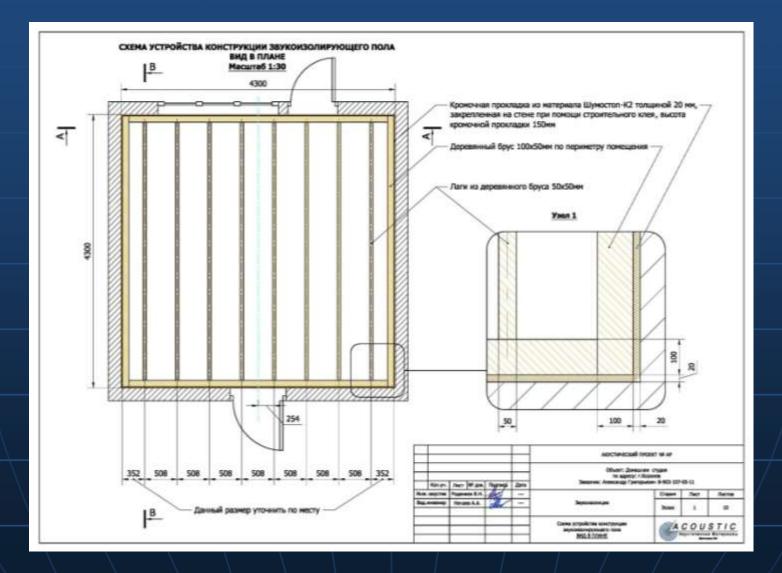
Floating floors

#### Partitions

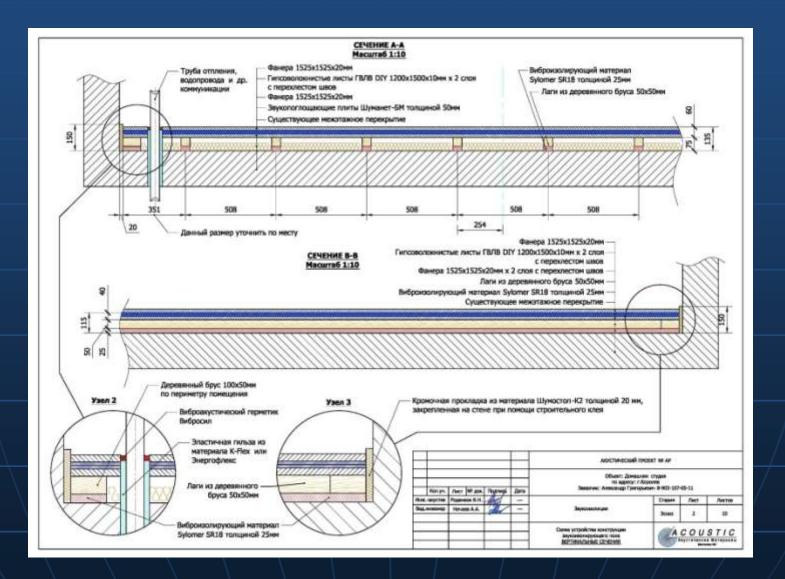
Wooden floors

# Insulating foundations

#### Elastically supporting wooden floor

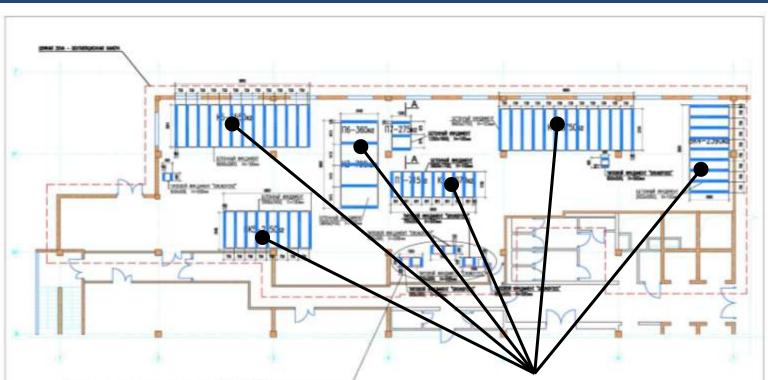


#### Elastically supporting wooden floor



Example of the insulation foundation for engineering equipment At present this solution is typical for reduction of engineering equipment vibrations. **Objects**: Ventilations Refrigerators Chillers Voltage transformers Pumps etc.

#### Foundation for ventilation equipment



Типовые фундаменты под насосы GRUNDFOS рекомендуется объеденить парами, что упростит их устройство. Пунктирная линия - исходный размер фундамента, сплошная линия - контур объедененного фундамета.

Крайний правый фундамент рекомендуется сместить влево для освобождения места для звуксизоляционной облицовки стены.

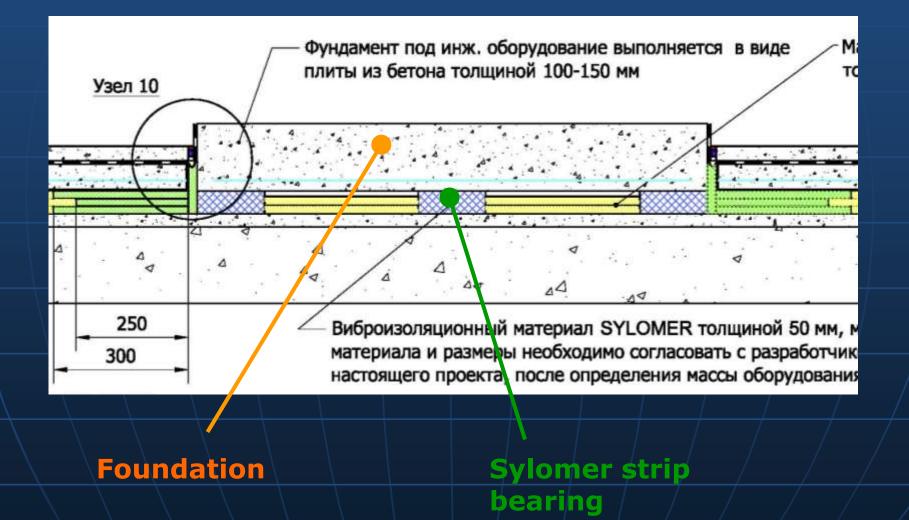
#### Примечание.

Данный лист смотреть совместно с Листом 1

#### **Insulation foundations**

| -           |                |         |        | АКУСТИЧЕСКИЙ ПРОЕКТ 7016-057<br>РЕКОНСТРИКЦИЯ ДЕЛОВОГО МНОГОВИНИЦИОНАЛЬНОГО ЗДАНИЯ<br>ПО АДВКОГ Оверховская набереновая, дон 26, строяние 2 |           |     |         |
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|             |                |         |        | Скона разнещения<br>виброкаопирующих опар   | CACOUSTIC |     |         |

#### Scheme of the insulating foundation



#### Sylomer strip bearings



#### Reinforcement of the foundation



#### Reinforcement of the foundation





#### **Concrete foundation**



# Ventilation equipment is on the insulating foundation



# Ventilation equipment is on the insulating foundation



#### Vibration insulation of the elevator



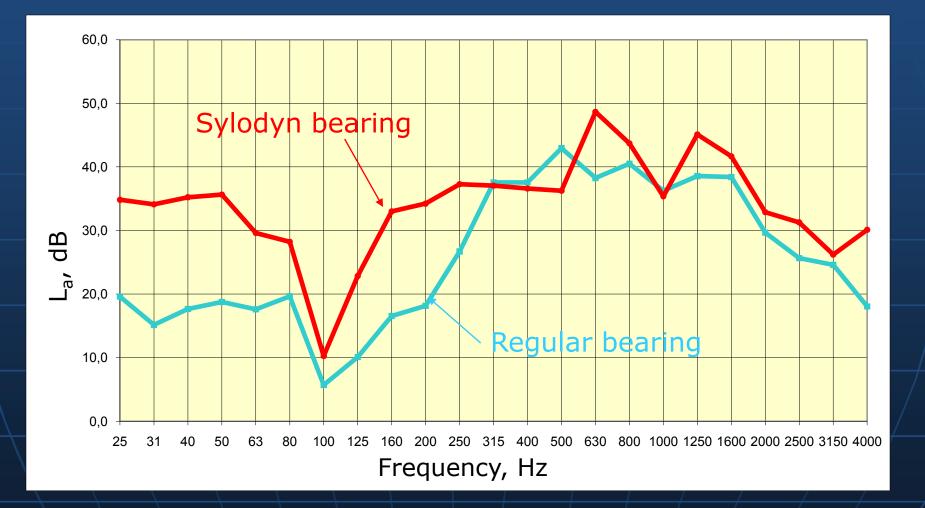
#### Regular bearing

#### Sylodyn bearing

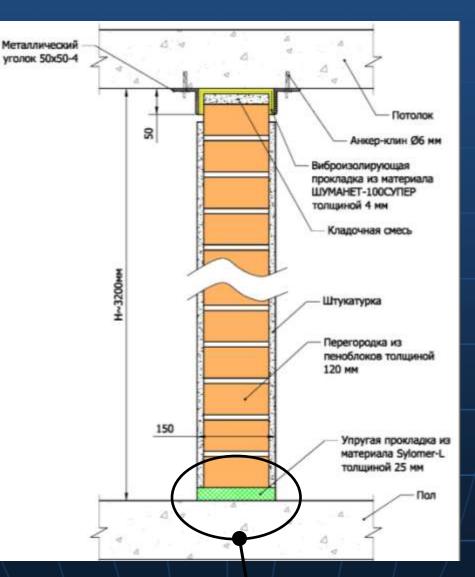




#### Measured vibration reduction



#### Partitions with Sylomer



Floating floor with Sylomer

### Partitions with Sylomer

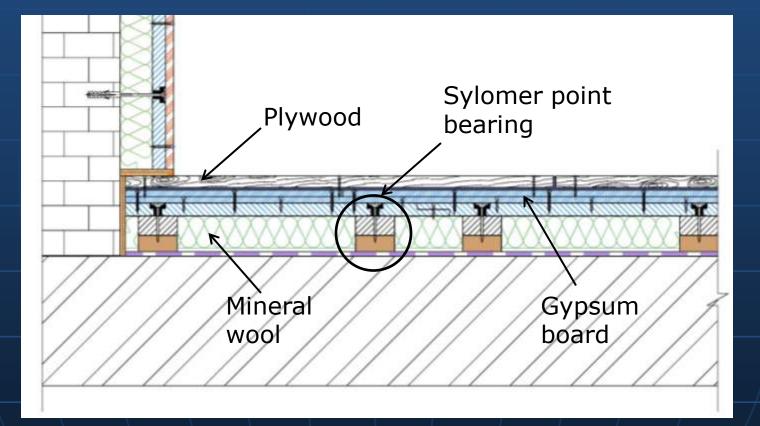


# Panel system for sound insulation (complete product)



Sylomer point bearing

#### Structure of the panel system



#### Thank you for attention!