## **Music Centre**

Jyrki Maalahti Leading specialist – BIM (Building information management) 11.11.2015



## Helsinki Music Centre

#### Users

- Helsinki Philharmonic Orchestra
- Finnish Radio Symphony Orchestra
- Sibelius-Academy
- Visiting artists

#### Owners

- Government of Finland/
  Senate Properties
  48 %
- City of Helsinki 26 %
- YLE (Finland's national public service broadcasting company 26 %





### Halls and other public premises in the Music Centre

| • | Concert Hall   | 1650 + 50 |  |
|---|--|-----------|--|
| • | Hall for amplified music                               | 290       |  |
| • | Hall with orchestra pit                                | 225 + 75  |  |
| • | Chamber music hall 250                                 |           |  |
| • | Organ hall (3 - 4 instruments ) 140                    |           |  |
| • | Rehearsal hall for orchestras                          | 240       |  |
| • | Restaurant – club                                      | 200       |  |
| • | VIP-lounge   | 90 - 150  |  |
| • | Main floor, circle and gallery lounges with cafeterias |           |  |
| • | Upper lobby and shop                                   |           |  |

- Main lobby, box office and info
- Sibelius Academy library
- Outdoor café (summer)







#### **Construction timetable**

- Frame works started on 1.October 2008
- Building systems installations started in August 2009
- Frame works completed in early 2010
- Interior works started in late 2009
- Landscaping started in summer 2010
- Installation of fixtures and stage technique starts in fall 2010
- Technical testing starts in late 2010 early 2011
- Construction completed in April 2011







# **Key figures**

| • | Concrete frame works |           | 102.397 m2   |
|---|----------------------|-----------|--------------|
| • | Reinforcement steel  |           | 2 million kg |
| • | Concrete poured      | 23.000 m3 | 3            |
| • | Hollow core slabs    | 14.579 m2 |              |
| ٠ | Hollow core slabs    | 1635 pcs  |              |
| ٠ | Gypsum boards        |           | 32.889 m2    |
| • | Parquette            |           | 4584 m2      |
| • | Natural stone        |           | 2882 m2      |
| • | Air conditioning ur  | nits      | 21 pcs       |
| ٠ | Air conditioning du  | ucts      | 25 km        |
| ٠ | Heating pipes        |           | 10 km        |
| ٠ | Cooling pipes        |           | 9 km         |
| ٠ | Water pipes          |           | 12 km        |
| ٠ | Sewage               |           | 8 km         |
| • | Lighting fixtures    |           | 11.000 pcs   |
| • | Cable trunking       |           | 28 km        |
| • | Cable                |           | 650 km       |
| ٠ | Manpower             |           | max. 450     |





## Challenges

- Acoustics
- Difficult cast-in-situ structures in concert halls
- Double structure
- Vibration control in concert halls
- Extensive stage technique
- Central location







### For further information, please contact:

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