

Short introduction to the technical visits

In 2020, central Croatia was hit by strong earthquakes. The **M_w5.4 Zagreb earthquake** occurred on March 22, while the **Petrinja earthquakes** struck at the end of December, with the mainshock of a M_w6.4 magnitude.

The M_w5.4 Zagreb earthquake occurred within the city limits at a depth of 10 km, and generated a peak ground acceleration of more than 0.2 g. The earthquake caused one fatality and damage to approximately 25,000 buildings, particularly extensive in the historic center of the city.

The M_w6.4 earthquake struck near the town of Petrinja, 50 km southeast from Zagreb, on December 29, 2020. It was preceded by the M_w4.9 foreshock the day before. The mainshock caused 7 fatalities and widespread damage. City centers with invaluable cultural heritage buildings were significantly affected as were the many residential buildings, mainly built of unreinforced masonry.

Three main technical visits to the earthquake-affected sites are planned:

- **Wednesday, March 22, 10.00-14.00:** we will walk through the historical core of Zagreb visiting interesting sites affected by the 2020 Zagreb earthquake, guided by engineers who participate in the retrofitting process
- **Friday, March 24, 17.00-19.00:** we will visit the Zagreb Cathedral and the nearby Archbishop's Palace, currently in the process of retrofitting
- **Saturday, March 25, 08.00-17.30:** we will visit Sisak-Moslavina County (by an organized bus); with the focus of the technical visit on the historical centre of the town Petrinja. We will also visit some churches outside of Petrinja that were heavily damaged, and have lunch in a nearby restaurant.

Meeting point for all technical visits is the lobby of the hotel Westin.

WEDNESDAY

Planned visit time: **22/3/2023: 10.15**

Palace Hotel Zagreb

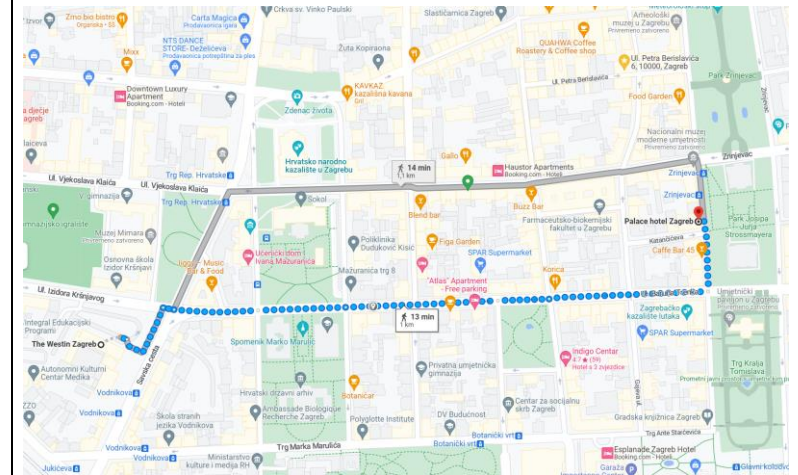
The palace in which Palace Hotel Zagreb is located was built in **1891** for Karl Schlesinger, and it was put into operation in 1907 as the **first organized hotel in Zagreb**.

With its appearance and architectural style, it represents one of the rare examples of the Neo-Rococo style. Since then, the hotel has been reconstructed and adapted several times. Palace Hotel Zagreb is located in the center of the city, next to the old city park Zrinjevac.

The hotel was heavily damaged in Zagreb 2020 earthquake and it is currently **in the process of retrofitting**.



13 min walk from hotel Westin



<https://goo.gl/maps/fZokpr3YCerBSKDW6>

Photographs from the construction site (February 2023)



Planned visit time: **22/3/2023: 11.30**

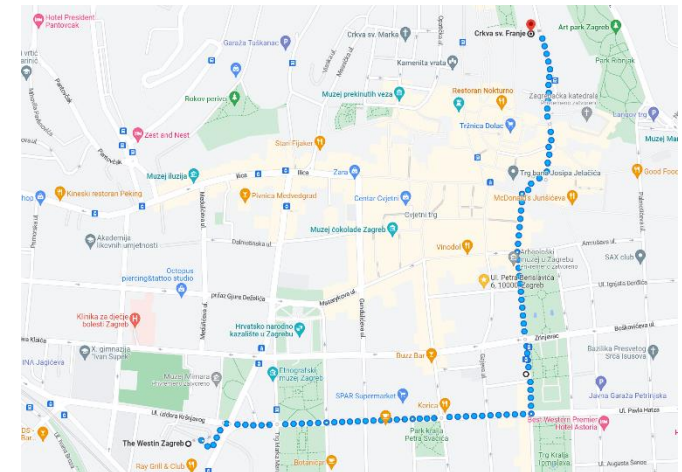
Church of St. Francis of Assisi

The complex of the church with the monastery was built in the **13th century**, but it is possible that the Franciscans already had their residence there before. The **Gothic** structure is considered one of the most mature Franciscan sacral buildings in the Central European region. The church and monastery were thoroughly **renovated after the Zagreb earthquake in 1880**, when an effort was put to achieve the original Gothic character of the building. The church got a new high bell tower closed with a pointed roof.

The complex was damaged in the Zagreb 2020 earthquake and it is **in the final phase of the retrofitting process**.



14 min walk from Palace hotel or 25 min from Westin



<https://goo.gl/maps/EPmc7SGPfQ82Y2Tq6>

Photographs from construction site



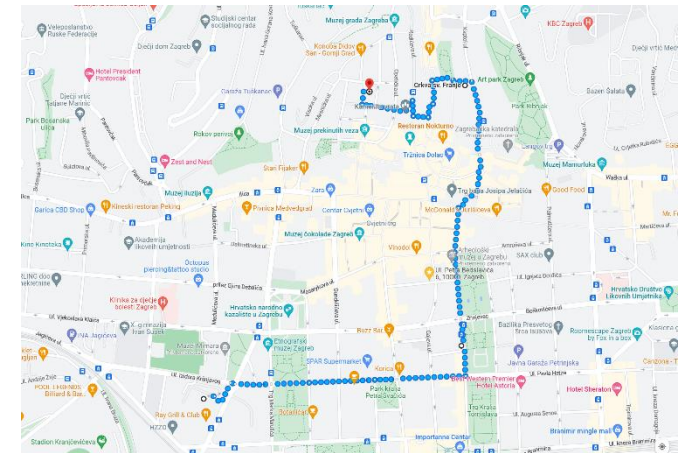
Planned visit time: **22/3/2023: 13.00**

The oldest part of the city: Upper Town

In the oldest part of Zagreb, several schools and churches are in the retrofitting process. Depending on the remaining time, a short tour of the construction site will be organized according to the expressed interest, and if necessary, the participants will be divided into several groups.



10 min walk from Church of St. Francis of Assisi



<https://goo.gl/maps/KenvCCNuJRwFQUFc7>

Photographs from construction sites



FRIDAY

Planned visit time: **24/3/2023: 17.00**

Zagreb Cathedral

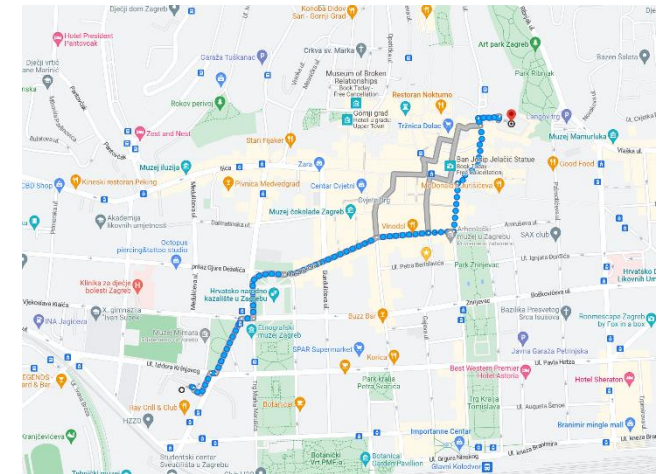
Zagreb Cathedral, is a Roman Catholic cathedral-church. It is the second tallest building in Croatia and also the **most monumental sacral building** in Gothic style southeast of the Alps. Construction of the cathedral was completed in **1217**.

The cathedral was severely **damaged in the 1880 Zagreb earthquake**. The main nave collapsed and the single tower was damaged beyond repair. As part of that restoration, two spires 104 m (341 ft) high were raised on the western side.

Cathedral was seriously damaged in the Zagreb 2020 earthquake and it is **in the first phase of the retrofitting process**.



22 min walk from hotel Westin



<https://goo.gl/maps/JjvfNYgaCk6DwBZK6>

Photographs from construction site (January 2023)



Planned visit time: **24/3/2023: 18.00**

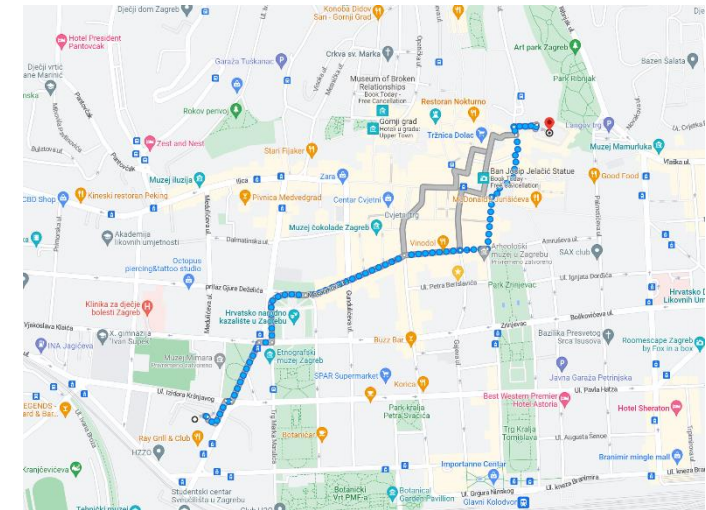
The Archbishop's Palace

The Archbishop's Palace in Zagreb runs parallel to the Zagreb Cathedral. The complex of the Archbishop's Palace was built within the ramparts that protected it from the Turkish conquests. The building is a protected cultural heritage, and the first records of the buildings inside today's Archbishop's Palace date back to the **13th century**.

After two devastating **earthquakes in 2020**, the building suffered significant damage to the structure, facade, staircase and roof. The strengthening method is minimally invasive and enables the preservation of the original construction characteristics in the exterior and interior of the building.



22 min walk from hotel Westin



<https://goo.gl/maps/JjvfNYgaCk6DwBZK6>

Photographs from construction site



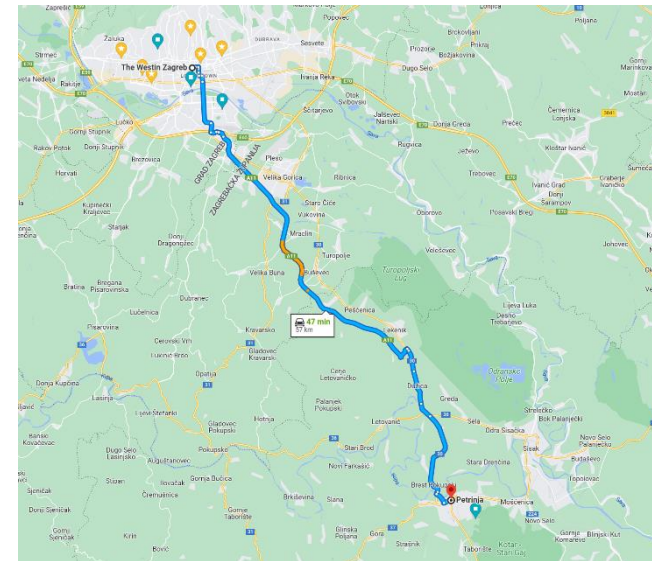
SATURDAY

Planned visit time: **25/3/2023: 8.00 – 17.30**

Sisak-Moslavina County

After the devastating **earthquakes in 2020** many buildings in Sisak-Moslavina County were damaged. Most of the damage was in the **historical centres** of the three largest cities: Petrinja, Glinja and Sisak, but there was also considerable damage to **churches and in villages**, most of which were not reconstructed or retrofitted after the Homeland War.

50 min drive from hotel Westin



<https://goo.gl/maps/W6zLBWQnGdNJsLDo6>

1. Churches outside of the City of Petrinja

We will visit the churches of **Holy Mary Magdalene in Sela** (currently under reconstruction) and the Templar church of the **Assumption of the Blessed Virgin Mary in Gora** (reconstructed before the earthquake).



2. City of Petrinja historical area

The heaviest damage and the focal point of technical visit is **City of Petrinja historical centre**. Buildings date to **late 1700s** and **most of the buildings are from the 1800s** and belong in the baroque and classicism era.

Visit will include **a walk through inner historic centre** with the **opportunity to enter several significant buildings**, followed by lunch at a nearby restaurant.

50 min drive from hotel Westin



<https://goo.gl/maps/W6zLBWQnGdNJSLDo6>

Photographs from the site

