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Figure 9 shows the results of the automatic extraction of facade details of the heritage building using terrestrial laser scanning data. The figure displays a 3D point cloud of the building facade, with the extracted details highlighted in red. The details include architectural elements such as windows, doorways, and decorative moldings. The extraction process is based on a set of predefined rules and parameters, which are used to identify and isolate the desired features from the point cloud data.

Results evaluation

The results of the automatic extraction of facade details are evaluated based on the accuracy and completeness of the extracted features. The accuracy is measured by comparing the extracted details with the ground truth data, which is obtained from a manual extraction process. The completeness is measured by comparing the extracted details with the original point cloud data, to ensure that all relevant features are captured. The results show that the automatic extraction process is highly accurate and complete, with a high degree of similarity between the extracted details and the ground truth data. The extracted details are also visually appealing and provide a clear representation of the facade details of the heritage building.

