

LA BASILICA DI SANT'ANDREA APOSTOLO A MANTOVA: RESTAURO DELLE SUPERFICI E MIGLIORAMENTO STRUTTURALE DELLA FACCIATA PRINCIPALE DEL PRONAO

DANIELA LATTANZI¹, ELENA ROMOLI², LAURA SALA³, ALBERTO MORETTI⁴, ELVIRA BOGLIONE⁵

¹Ministero dei beni e delle attività culturali e del turismo (MIBACT), Segretariato regionale per la Lombardia, Corso Magenta 24, 20123 Milano, daniela.lattanzi@beniculturali.it

²MIBACT, Soprintendenza archeologia, belle arti e paesaggio per la città metropolitana di Cagliari, elena.romoli@beniculturali.it

³MIBACT, Soprintendenza archeologia, belle arti e paesaggio per le province di Bergamo e Brescia, laura.sala@beniculturali.it

⁴Ingegnere, libero professionista, ing.alberto.moretti@gmail.com.

⁵LITHOS .R.L. Conservazione e Restauro, Sestriere Castello 5236 Venezia, boglione@lithosrestauri.com

ABSTRACT

In December 2015 the restoration of the main façade and porch of the Basilica di Sant'Andrea in Mantua designed by Alberti was terminated, having taken place with a series of works from 2005, making it possible to understand and undertake the construction and restoration phases, and the work carried out on the decorative elements and finishings. The structural behaviour of the overall façade-porch and cracking and deformation were investigated by making use of photogrammetric survey techniques and laser scanning, three-dimensional modelling, monitoring of movement, georadar and thermography, in order to identify the existing situation and changes to the walls. In terms of restoration, the work concerned all the decorated surfaces, such as the fragments of renaissance fresco decoration on the south façade and the original decorative terracotta and stucco items, natural stone elements, the painted coffered ceiling of the intrados of the arch and the plaster relating to neoclassical restoration in the 1828-1835 period by Paolo Pianzola. Structural reinforcement included repairing the damage caused by the 2012 earthquake and anti-seismic improvement of the vault of the arch, the insertion of sloping membranes on the lateral roofs and a flat membrane at the level of the space under the roof, and consolidation of the brickwork, with localised injections and careful recomposition of wall continuity.

Key-words: restoration, Mantova, Sant'Andrea, Alberti, laser