



raziskava, research

povzetek

Fasade je glede na njihovo sestavo mogoče razdeliti na prezračevane in neprezračevane. Prezračevana fasada (zračena fasada, hladna fasada) je sestavljena iz večih plasti različnih gradiv. Na notranji strani zunanje obloge ima sloj zraka za prezračevanje. Prezračevane fasade lahko razdelimo v prezračevane neprosojne in prezračevane prosojne fasade. Prezračevane neprosojne fasade imajo običajno toplotno-izolativno plast, načelno pa obstajajo tudi take brez toplotne izolacije. Prezračevane prosojne fasade imajo fasadni medprostor večjih dimenzij, ki je lahko nedeljen ali pa deljen. Neprezračevana fasada (nezračena fasada, topla fasada) je sestavljena iz večih plasti različnih gradiv, ki so tesno druga ob drugi. Razdelimo jih lahko v neprezračevane neprosojne in neprezračevane prosojne fasade. Neprezračevane neprosojne fasade imajo zunanjo, notranjo, obojestransko ali vmesno toplotno izolacijo ali pa so brez nje. Prosojna fasada mora imeti sončno zaščito, ki je lahko nameščena na zunanji strani, med stekli, na notranji strani zasteklitve, ali pa je vgrajena v zunanje steklo. V raziskovalni nalogi so fasade sistemizirane v pregledne sheme. Podrobneje so obdelani vsi tipi prezračevanih in neprezračevanih fasad, njihove značilnosti, prednosti in slabosti.

doseženi cilji, namen in rezultati

Analizirati in ovrednotiti različne fasadne sisteme glede na izbrano gradivo, toplotno izolacijo, sistem prezračevanja, sončno zaščito. Rezultat raziskave bo služil kot gradivo pri predmetu Tehnologija gradnje in gradiva v arhitekturi.

problematika v arhitekturi, umestitev obravnavane teme v te tokove in njen pomen

Zaradi nerazumevanja in nepoznavanja delovanja gradiv in možnosti uporabe sodobnih tehnologij gradnje se v arhitekturni praksi pojavljajo napake in poškodbe, ki bi jih projektant z ustreznim znanjem moral predvideti in preprečiti. Naloga predstavlja doprinos k izobraževanju strokovne arhitekturne javnosti in učno gradivo v študijskem procesu.

ključne besede

fasada, prezračevana fasada, naprezračevana fasada, prosojna fasada, neprosojna fasada

summary

When it comes to composition, facades may be divided into ventilated and non-ventilated facades. Ventilated or cold facades are composed of several layers of building materials. The inner side of the outer layer boasts of a layer of air for ventilation. Ventilated facades are further divided into ventilated non-transparent and transparent facades. The non-transparent variety usually, but not necessarily, consists of an insulating layer, while the transparent variety is composed of a facade interspace, which can be divided or not, of larger dimensions. Non-ventilated or warm facades consist of several adjacent layers of building materials. They may be further divided into non-ventilated non-transparent and transparent facades. The former may include outer, inner and two-face or inter-insulation, while the latter must consist of solar protection, placed either in the outer part, i.e. among the glass surfaces, or in the inner part of glass surfaces or it may be installed in the outer glass. The research classified the existing facades in a clear system and processed all the types of ventilated and non-ventilated facades, establishing their characteristics, as well as advantages and disadvantages.

aims achieved, intentions and results

The research aimed at an analysis and evaluation of various facade systems according to the parameters of the selected building materials, insulation, ventilation system and solar protection. The results will serve as reference material for the undergraduate subject of The Technology of Construction and Building Material in Architecture.

problematics, topic placement and significance in architecture

The incomprehension of and lack of familiarity with the functioning of building materials and their application, as well as the possibilities of the application of modern construction technologies in architectural practice have resulted in mistakes and deteriorations which the project designer with an appropriate knowledge should have foreseen and prevented. The research functions as a contribution to educating experts in architecture and will be used as study material in the undergraduate study programme.

key words

façade, ventilated façade, non-ventilated façade, transparent façade, non-transparent façade