Materials used in construction



Student Ogarkov V. A.

Content

- ✓ Natural stone materials
- Wood materials and products
- Ceramic materials and products
- Concrete and mortar
- ✓ Metals
- ✓ Glass



Natural stone materials

rocks subjected to mechanical processing (facing slabs, wall stones, crushed stone, gravel, rubble stone, etc.). The introduction of advanced methods of extraction and processing of stone (for example, diamond sawing, heat treatment) significantly reduces the complexity of manufacturing and the cost of stone materials and expands the scope of their use in construction.



Wood materials and products

Construction materials obtained mainly by mechanical processing of wood (roundwood, lumber and billets, parquet, plywood, etc.). In modern construction, lumber and blanks are used on a large scale for various carpentry products, built-in equipment of buildings, mouldings (skirting boards, handrails, linings, etc.)



Ceramic materials and products

are made from clay-containing raw materials by molding, drying and firing. A wide range, high strength and durability of ceramic Building materials determine a variety of applications in construction: as wall materials (bricks, ceramic stones) and sanitary products, for external and internal cladding of buildings (ceramic tiles)



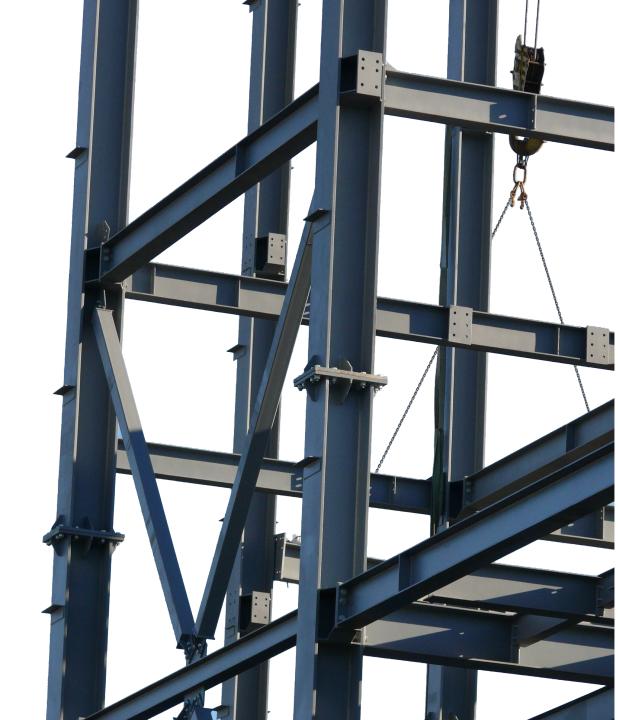
Concreteand mortar

artificial stone materials with a wide range of physical, mechanical and chemical properties, obtained from a mixture of a binder, water and aggregates. The main type of concrete is cement concrete. Along with it, products made of silicate concrete are used in modern construction. Lightweight concretes used for the manufacture of large-size prefabricated structures and products are very effective.



Metals

In construction, mainly rolled steel is used. Steel is used for the manufacture of reinforcement in reinforced concrete, building frames, bridge spans, pipelines, heating appliances, as a roofing material (roofing steel), etc. Aluminum alloys are widely used as structural and finishing building materials.



Glass

It is used mainly for the construction of translucent fences. Along with ordinary sheet glass, special-purpose glass (reinforced, tempered, heat-proof, etc.) and glass products (glass blocks, glass-profilite, glass facing tiles, etc.) are produced. The use of glass for the exterior decoration of buildings (stemalite, etc.) is promising.)



Lacquers and paints

are finishing Building materials based on organic and inorganic binders that form decorative and protective coatings on the surface of the painted structure. Synthetic paint materials and water-based paints based on a polymer binder are widely used



Many thanks for your attention

