

Construction Materials Used For The Kitchen Portion of the Home and Using Industrial Minerals and Metals

Information Courtesy of Pay Dirt Magazine - July 1992 article, "Home Kitchen Shows Our Universal Dependence on Minerals" by Gary Dillard, Staff Reporter

ROOF AND ATTIC
CEILING AND WALLS
FLOOR, FOUNDATION, AND BASE
COUNTER, SINK, AND CABINETS
REFRIGERATOR
OVEN AND RANGE

Materials Used in the Roof and Attic

- ! Painted roof vents for kitchen sink, range, and oven
 - ! Roof sealant around vent flange
 - ! Asphaltic roof shingles
 - ! Concrete imitation red clay mission tile roof trim
 - ! Asphaltic rolled roofing under layment
 - ! Steel drip edge with "high tech" powder coat finish or gutters and down spout
 - ! Galvanized roofing nails
 - ! Steel wire nails
 - ! Plywood subroof with glued laminations
 - ! Insulated air conditioning duct work
 - ! Blown in vermiculite after market added insulation
 - ! Fiber glass insulation glued to coated paper vapor barrier with sodium silicate water glass
 - ! Wood rafters with black ink agency grade stamps
 - ! Insulated copper wire cable (Romex style with paper and plastic insulation)
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Minerals Used or Usable in the Roof and Attic Materials

- | | |
|-------------------------|---------------------|
| ! alumina compounds | ! mica |
| ! asbestos | ! mineral pigments |
| ! attapulgate clay | ! nepheline syenite |
| ! barite | ! ores of aluminum |
| ! bentonite clay | ! ores of copper |
| ! colored rock granules | ! ores of iron |
| ! copper smelter slag | ! ores of nickel |
| ! diatomaceous earth | ! ores of tin |
| ! feldspar | ! ores of zinc |
| ! feldspathic sand | ! perlite |
| ! fluorite | ! pumice |
| ! garnet | ! pyrophyllite |
| ! graphite | ! rock dust |
| ! kaolin | ! silica sand |
| ! limestone | ! slag |

!	magnesite	!	talc
		!	wollastonite

Materials Used in the Ceiling and Walls

!	Painted ceiling lamp fixture with ceramic socket for fluorescent tube lighting	!	Black iron gas pipe
!	Painted above sink light fixture with ceramic socket for incandescent lamp	!	ABS sink drain vent riser in wall
!	Ceiling fan with reinforced composite blades	!	ABS sink drain pipe in wall
!	Plastic outlet and switch boxes (j-boxes)	!	Nylon pipe clamps in wall
!	Gypsum wall board	!	Glued laminated plywood or wafer board siding subwall
!	Paper joint tape	!	Expanded polystyrene foam insulation
!	Joint cement	!	Metal lathing
!	Interior texture coating	!	Exterior insulated reinforced elastomeric stucco system
!	Paint primer	!	Exterior paint if stucco system is not colored
!	Semi-gloss enamel paint	!	Exterior dark color trim paint
!	Flat interior paint	!	Aluminum window frame with "high tech" powder coat finish
!	Insulated copper wire cable (Romex-style with paper and plastic insulation)	!	Double glazed bronzed glass window with inert gas
!	PVC cold water pipes and connectors	!	Rubber window bead (in place of putty)
!	Copper pipe with soldered connectors for hot water	!	Caulking compounds

Minerals Used or Usable in the Ceiling and Walls Materials

!	alumina compounds	!	ores of antimony
!	attapulgitic clay	!	ores of beryllium
!	bentonite clay	!	ores of copper
!	brucite	!	ores of iron
!	colored rock granules	!	ores of lead
!	diatomaceous earth	!	ores of tin
!	feldspar	!	ores of tungsten
!	feldspathic sand	!	ores of zinc
!	graphite	!	perlite
!	gypsum	!	pumice
!	kaolin	!	pyrophyllite
!	limestone	!	silica

!	magnesite	!	silica sand
!	mica	!	talc
!	mineral pigments	!	wollastonite
!	nepheline syenite		

Materials Used in the Floor, Foundation, and Base

- ! Metal salt "Whomanized" (treated) termite resistant wood sill
- ! Gypsum retarded portland cement based concrete foundation
- ! Vitreous clay sanitary sewer pipe
- ! Sand bedding for sewer pipe in rocky soil
- ! Vinyl floor tile
- ! Glazed red quarry tile floor molding
- ! Adhesive for vinyl floor tile
- ! Adhesive and grout for ceramic tile
- ! Portland cement concrete slab
- ! ABC sub base
- ! Water proof asphaltic concrete coating on foundation
- ! Water softener
- ! Wax or neoprene connector for ABS to vitreous clay sewer pipe

Minerals Used or Usable in the Floor, Foundation, and Base Materials

!	aggregates	!	mica
!	alumina compounds	!	mineral pigments
!	asbestos	!	nepheline syenite
!	attapulgate clay	!	ores of iron
!	barite	!	ores of zinc
!	bentonite clay	!	pumice
!	diatomaceous earth	!	pyrophyllite
!	feldspar	!	rock dust
!	gypsum	!	talc
!	kaolin	!	wollastonite
!	limestone		

Materials Used in the Counter, Sink, and Cabinets

- ! Dense filled counter top (like Du Pont's Corian)
- ! White body ceramic wall tile trim
- ! Plastic electrical outlet and switch plates (or decorative ceramic)
- ! Porcelain kitchen sink basin
- ! Chrome plated plastic or brass sink fixtures
- ! Adhesive and sink caulking

- ! Ceramic tile adhesive and tile grout
 - ! Reinforced flexible water connections from sink to pipes in wall
 - ! PVC sink drain pipe and trap
 - ! Under sink water filter
 - ! Particle board kitchen cabinets with laminate (Formica) covered shelves
 - ! Cast metal door and drawer handles
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Minerals Used or Usable in the Counter, Sink, and Cabinets Materials

- | | |
|---------------------|--------------------------|
| ! alumina compounds | ! ores of chrome |
| ! attapulgate clay | ! ores of copper |
| ! barite | ! ores of iron |
| ! bentonite clay | ! ores of nickel |
| ! brucite | ! ores of titanium |
| ! feldspar | ! ores of zinc |
| ! garnet | ! perlite |
| ! kaolin | ! pyrophyllite |
| ! limestone | ! salt (sodium chloride) |
| ! magnesite | ! silica |
| ! mica | ! talc |
| ! mineral pigments | ! wollastonite |
| ! nepheline syenite | ! zeolites |
| ! ores of antimony | ! zircon |
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Materials Used in the Refrigerator

- ! Refrigerants from fluorspar
 - ! Expanded polystyrene insulation
 - ! Soldered copper tubing
 - ! Thermoplastic interior lining
 - ! Glass shelves
 - ! Incandescent light
 - ! Steel exterior and steel wire shelving
 - ! Porcelain or "high tech" powder coat finish on exterior
 - ! Copper wire wound motor
 - ! Bimetal thermocouple temperature control
 - ! Chrome plated thermoset plastics control knobs and handles
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Minerals Used or Usable in the Refrigerator Materials

- | | |
|---------------------|------------------|
| ! alumina compounds | ! ores of copper |
| ! attapulgate clay | ! ores of iron |
| ! barite | ! ores of lead |
| ! brucite | ! ores of nickel |

