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DIVISION 06 00 00. WOOD, PLASTICS, AND COMPOSITES

06 00 00 - Wood, Plastics, and Composites

Contractor shall review construction documents and provide labor and m
carpentry work as required in said documents and as specified herein, w
applicable building codes.

06 05 73 – Wood Treatment

SPECIFIER NOTE:
resource management: Some species of wood are naturally resistant to
elements while others are resistant to termite attack. These include the f
heartwood is commonly recognized by the building codes are resistant t
cedar, and black walnut. Redwood and Eastern red cedar are resistant t

toxicity/IEQ: Lumber, timber, wood structural panels, piles and poles sup
structures are often required by building codes to be preservative treated
requirements of an applicable American Wood-Preservers Association (A
species, product, preservative and end use.
There are three broad classes of wood preservatives: (1) creosote, which
rail-road ties, utility poles, and pilings; (2) oil-borne preservatives, such a
and copper naphthenate, generally used for utility poles, assembly area
lam construction; and, (3) waterborne preservatives which are the most c
used in residential, commercial and industrial construction. Waterborne p
ammoniacal copper arsenate (ACA), alkaline copper quaternary (ACQ-B
D),ammoniacal copper zinc arsenate (ACZA), chromated copper arsenat
azole (CBA-A and CA-B), and copper napthenate, sodium borate (SBX),
used as a fungicide to control fungal diseases on trees and crops.
In use, wood preservatives are usually of fairly low volatility, but may outg
their emissions rates are not large and they do not generally result in hig
concentrations, some may pose health hazards. CCA has been the most
preservative treatment. However, on February 12, 2002, EPA announced
by industry to move consumer use of treated lumber products away from
contains arsenic by December 31, 2003, in favor of preservatives that do
most residential uses. This transition affects preservative-treated wood u
decks, picnic tables, landscaping timbers, residential fencing, patios and
As of January 1, 2004, EPA will not allow CCA to be used to treat wood i
these residential uses. This decision on CCA, however, does not restrict
preservative-treated wood for pilings, permanent wood foundations and s

performance: Wood preservatives are used to make wood resistant to fu
termite attack. Most building codes require that structural wood elements
earth, embedded in concrete/masonry that is in direct contact with earth,
moisture, be of naturally durable wood or preservative-treated wood. Wh
or systems are used, a variance from the building department may be re
Do not specify wood furnishings or finishes that require tight humidity co
systems. Comfort standards typically allow humidity to fluctuate to save e

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PART 1 - GENERAL

1.1 SUMMARY

A. This Section includes:
   1. Wood Treatment.
   2. Natural Decacy and Insect Resistant Wood.
B. Related Sections:
   1. 06 10 00 (06100) - Rough Carpentry.
   2. 06 16 00 (06160) - Sheathing.

1.2 SUBMITTALS

A. Product data. Unless otherwise indicated, submit the following for provided under work of this Section:

SPECIFIER NOTE:
Specifying local materials may help minimize transportation impa have a significant impact on reducing the overall embodied energ because of efficiencies of scale in some modes of transportation. Green building rating systems frequently include credit for local m impacts include: fossil fuel consumption, air pollution, and labor. U includes credits for materials extracted/harvested and manufactur radius from the project site.
Green Globes-US also provides points for materials that are local

1. Local/Regional Materials:
   a. Sourcing location(s): Indicate location of extraction recovery; indicate distance between extraction, ha and the project site.
   b. Manufacturing location(s): Indicate location of man indicate distance between manufacturing facility ar
   c. Product Value: Indicate dollar value of product con materials; include materials cost only.
   d. Product Component(s) Value: Where product com manufactured in separate locations, provide locati component. Indicate the percentage by weight of e unit of product.

SPECIFIER NOTE:
Green building rating systems may include credit f materials. USGBC-LEED™ v2.2, for example, incl emitting materials, including: adhesives and sealar coatings, carpets, and composite wood and agrifib LEED™ v2.2, adhesives and sealants are to comp South Coast Air Quality Management District (SCA adhesives are to comply with Green Seal GS-36; i paints are to comply with Green Seal GS-11; anti-c comply with Green Seal GS-03; clear wood finishe

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SCAQMD #1113; carpet with the Carpet and Rug I
Label Plus; carpet cushion with CRI Green Label p
composite wood and agrifiber products are to cont
formaldehyde.
As per USGBC published Credit Interpretations, th
emitting materials are directed towards interior, site
prefabricated) products. Verify project requirement
products.
Both the Adhesive and Sealant Council (ASC) and
indicated that low VOC adhesives may have perfo
extreme temperature and humidity conditions.
Green Seal, an independent, non-profit organizatio
products using internationally recognized methods
Green Seal certification meets the criteria of ISO 1
environmental standards for ecolabeling set by the
Organization for Standardization (ISO); the U.S. E
Agency's criteria for third-party certifiers of environ
products; and the criteria for bona fide ecolabeling
Ecolabeling Network.
Engineered wood products manufactured in accord
standards are also available. For example, the Co
Association's (CPA's) Standard for Particleboard, A
maximum formaldehyde emissions for different gra
ANSI A208.2, the Composite Panel Association's S
covers MDF for interior applications and includes n
emission level for different grades of MDF.

2. VOC data:
    a. Adhesives:
        1. Submit manufacturer's product data for adh
        limits of the product. Submit MSDS highligh
        2. Submit Green Seal Certification to GS-36 a
        basis for certification.
        3. **[Submit manufacturer's certification tha
        with SCAQMD #1168.] [Submit manufact
        that products comply with SCAQMD Rul
        exposure to freeze/thaw conditions and
        moisture will not occur. In areas where f
        conditions do exist or direct exposure to
        submit manufacturer's certification that
        Bay Area AQMD Reg. 8, Rule 51 for cont
        oz and with California Air Resource Boa
        containers 16 oz or less.]**
    b. Engineered Wood Products: Provide documentatio
    and agrifiber products **[are third-party certified as
    standard requirements for formaldehyde emiss
    added urea-formaldehyde resins.]**
        1. ANSI A208.1 - 1999, Particleboard
        2. ANSI A208.2 - 2002, Medium Density Fiber
        Interior Applications

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SPECIFIER NOTE:
Green building rating systems typically incl
sustainably harvested wood. USGBC-LEED
includes credit for use of sustainably harve
under Forest Stewardship Council Guidelin
v2.2, a minimum of 50 percent of wood-bas
products incorporated into the Project must
accordance with the Forest Stewardship Co
Green Globes-US also provides points for
originate from certified sources, such as, F
Council, Sustainable Forestry Initiative, and
Forest Management Program.

B. Letter of Certification(s) for Sustainable Forestry:
    1. Forest Stewardship Council (FSC): Provide letter of certifi
    supplier. Indicate compliance with FSC "Principles for Nat
    Management" and identify certifying organization.
        a. Submit FSC certification numbers; identify each ce
        line-item basis.
        b. Submit copies of invoices bearing the FSC certifica
    2. Sustainable Forestry Board: Provide letter of certification s
    supplier. Indicate compliance with the Sustainable Forestr
    Forestry Initiative (SFI) and identify certifying organization
        a. Submit SFI certification numbers; identify each cer
        item basis.
        b. Submit copies of invoices bearing the SFI certificat
    3. Canadian Standards Association (CSA): Provide letter of
    lumber supplier. Indicate compliance with the CSA and ide
    organization.
        a. Submit CSA certification numbers; identify each ce
        line-item basis.
        b. Submit copies of invoices bearing the CSA certifica
C. Letter of Certification for Pressure Treatment: Submit Certificatio
stating chemicals and process used and net amount of preservati
conformance with specified standards.

PART 2 - PRODUCTS

SPECIFIER NOTE:
EO 13423 includes requirements for Federal Agencies to reduce "the qua
hazardous chemicals and materials acquired, used, or disposed of by the
EO 13423 includes requirements for Federal Agencies to use "sustainabl
practices, including acquisition of biobased, environmentally preferable, e
efficient, and recycled-content products"

Specifically, for USDA-designated biobased products, Federal agencies
meeting or exceeding USDA's biobased content recommendations; and
biobased products made from rapidly renewable resources and certified
products.

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And, under the Sustainable Building requirements per Guiding Principle # Environmental Quality, EO13423 directs Federal agencies to use "materi low pollutant emissions, including adhesives, sealants, paints, carpet sys

2.1 MATERIALS

A. Preservative Pressure Treatment:
    1. Toxicity/IEQ: Products containing chromium will not be pe containing arsenic will not be permitted.
    2. Waterborne Wood Preservatives:
        a. Wood products shall be treated with waterborne w conforming to AWPA Standards P5, excluding thos arsenic and/or chromium.
        b. Pressure treatment of wood products shall conform AWPA Standards U1 and T1.
        c. Retention of preservatives:
            1. Moderate service conditions (weather expo cubic foot (oxide basis).
            2. Severe conditions (constant contact with gr pounds per cubic foot (oxide basis).

            SPECIFIER NOTE:
            Some preservatives are not recommended direct contact with ground because of the p of the preservative. For example, AWPA st treated with borates for use in direct contac exposed direct precipitation or continuous e water.

    3. Borate-based preservative:
        a. Impregnate lumber with preservative treatment cor Standard P18.

B. Fire Retardant Treatment:
    1. Toxicity/IEQ: Fire-retardant-treated wood products shall b sulfates, ammonium phosphate and formaldehyde.
    2. Fire Retardant Formulations:
        a. Wood products shall be treated with fire retardants Standard P17.
        b. Fire retardant treatment of wood products shall cor requirements of AWPA Standard U1, Commodity S AWPA Standard T1, Section 8.8.

C. Natural Decay and Insect Resistant Wood:
    1. Resource Management: Provide sustainably harvested; ce accordance with **[FSC] [SFI] [CSA] [xxxxx]** guidelines. N is the heartwood of the following species with the exceptio piece with corner sapwood is permitted if 90 percent or mo side on which it occurs is heartwood. Acceptable species
        a. Decay resistant. Redwood, South American ipe, ba black locust and black walnut.

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b. Termite resistant. Redwood and Eastern red cedar

PART 3 - EXECUTION

3.X SITE ENVIRONMENTAL PROCEDURES

A. As specified in Division 01 (1) and Section 06 10 00 (06100) - Ro

06 10 00 - Rough Carpentry
Lumber shall be of live, sound stock and properly dried. Pressure treate
where any lumber shall come into contract with concrete, masonry block
as support members for decks, porches or balconies. Lumber for use at
maximum 12 percent moisture content, for dry climates 9 percent is reco
adequate bracing and shoring during the construction process. Studs an
plumbing and/or wiring shall be reinforced by adding metal or wood struc
strengthen member back to original capacity and maintain structural inte
not be larger than 1/3 the depth and not closer than 2" to the top or botto

Wood Species: #2 Southern Yellow Pine, Douglas Fir, etc.

SPECIFIER NOTE:
resource management: Wood is a renewable resource. Forests provide r
benefits, including: habitats, potential sources for medicines, and climatic
sources of sustainably harvested wood are available. Non-sustainable ha
produce soil erosion, pollutant runoff, increased levels of atmospheric ca
warming, and habitat loss.

Forest Certification Standards in North America include:

- The American Tree Farm System developed by the American For
to www.treefarmsystem.org/aboutfarming/whatis.cfm
- Canada's National Sustainable Forest Management Standard; ref
certifiedwood.csa.ca
- ISO 14001 developed by the International Organization for Stand
a forest-specific standard, ISO offers a special technical report IS
to forestry and assists with implementation of ISO 14001 in forest
- The Principles for Natural Forest Management developed by The
Council; for Canada visit www.fsccanada.org, for the USA visit fs
- The Sustainable Forestry Initiative® created through the America
Association and currently managed by the Sustainable Forestry B
entity established to manage SFI); refer to
www.afandpa.org/Content/NavigationMenu/Environment_and_Re

Most trees in the United States are referred to as either "hardwoods" or "
trees are deciduous trees that, with a few exceptions, lose their leaves in
Softwood forest types are conifers and evergreens such as pines, spruce
Wood that is used in construction of buildings is primarily softwood.

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Much of America's hardwoods, such as oaks, are found along the East C
are concentrated in the West and South. Douglas-fir is the dominant soft
Southern pines, such as loblolly and shortleaf, are the most abundant so
Quaking aspen, a hardwood, is the most widely distributed tree species i

The term "Engineered Wood Product" (EWP) refers to a wood-based pro
design properties assigned to it. EWPs are often manufactured as a com
pieces of wood that together create larger high strength structural elemer
Engineered wood components include: plywood, oriented strand board ((
panels, glue laminated beams, structural composite lumber, including lar
and parallel strand lumber, as well as I-joists and metal plate connected
additional sub-component of structural composite lumber would include l
lumber. Finger-jointed lumber, which is interchangeable with solid sawn l
considered an EWP. Finger-jointed lumber or end-jointed lumber is perm
interchangeably with solid-sawn members of the same species and grad
finger jointed lumber is marked "STUD USE ONLY" or "VERT USE ONL
limited to use where any bending or tension stresses are of short duratio
Engineered wood products are typically prefabricated, not site fabricated
Engineered wood products are frequently more efficient in construction o
sawn lumber due to the lower coefficient of variance of EWPs. EWP asse
more resource efficient than assemblies constructed of solid sawn memb

toxicity/IEQ: Adhesive binders used in engineered wood products are an
resins that pose varying degrees of human health risks. Refer to Section
Wood Treatment for information regarding treated wood.

performance: Wood is a natural and efficient building material. The struct
characteristics of wood change over time as a result of changes in weath
factors. These changes in structural design values of various wood speci
through a in-grade testing program of lumber and published periodically i
National Design Specification© (NDS©) for Wood Construction.
For efficient resource use of solid sawn lumber, it is recommended that th
grade of lumber be specified to suit the purpose. As an alternate to new s
reclaimed lumber can be used since it performs comparably to new lumb
a grading agency in accordance with American Lumber Standards Comm
Further, the use of engineered wood products can result in resource effic
expected of conventional lumber/timber construction. However, engineer
might be more difficult to recycle than standard, solid sawn lumber due to
the manufacture of the engineered wood product.

PART 1 - GENERAL

1.1 SUMMARY

A. This Section includes:
    1. Framing with dimension lumber.
    2. Engineered wood products.
    3. Wood furring, grounds, nailers, and blocking.
B. Related Sections:

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labor. USGBC-LEED™ v2.2 includes credits for ma
extracted/harvested and manufactured within a 50
project site.
Green Globes-US also provides points for material
manufactured.

2. Local/Regional Materials:
   a. Sourcing location(s): Indicate location of extraction
   recovery; indicate distance between extraction, ha
   and the project site.
   b. Manufacturing location(s): Indicate location of man
   indicate distance between manufacturing facility ar
   c. Product Value: Indicate dollar value of product con
   materials; include materials cost only.
   d. Product Component(s) Value: Where product com
   manufactured in separate locations, provide locatio
   component. Indicate the percentage by weight of e
   unit of product.

SPECIFIER NOTE:
Green building rating systems may include credit fo
materials. USGBC-LEED™ v2.2, for example, inclu
emitting materials, including: adhesives and sealar
coatings, carpets, and composite wood and agrifib
LEED™ v2.2, adhesives and sealants are to comp
South Coast Air Quality Management District (SCA
adhesives are to comply with Green Seal GS-36; i
paints are to comply with Green Seal GS-11; anti-c
comply with Green Seal GS-03; clear wood finishe
SCAQMD #1113; carpet with the Carpet and Rug I
Label Plus; carpet cushion with CRI Green Label p
composite wood and agrifiber products are to cont
formaldehyde.
As per USGBC published Credit Interpretations, th
emitting materials are directed towards interior, site
prefabricated) products. Verify project requirement
products.
Both the Adhesive and Sealant Council (ASC) and
indicated that low VOC adhesives may have perfo
extreme temperature and humidity conditions.
Green Seal, an independent, non-profit organizatio
products using internationally recognized methods
Green Seal certification meets the criteria of ISO 1
environmental standards for ecolabeling set by the
Organization for Standardization (ISO); the U.S. E
Agency's criteria for third-party certifiers of environ
products; and the criteria for bona fide ecolabeling
Ecolabeling Network.
Engineered wood products manufactured in accord
standards are also available. For example, the Co

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   component. Indicate the percentage by weight of e
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SCAQMD #1113; carpet with the Carpet and Rug I
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composite wood and agrifiber products are to cont
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emitting materials are directed towards interior, site
prefabricated) products. Verify project requirement
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indicated that low VOC adhesives may have perfo
extreme temperature and humidity conditions.
Green Seal, an independent, non-profit organizatio
products using internationally recognized methods
Green Seal certification meets the criteria of ISO 1
environmental standards for ecolabeling set by the
Organization for Standardization (ISO); the U.S. E
Agency's criteria for third-party certifiers of environ
products; and the criteria for bona fide ecolabeling
Ecolabeling Network.
Engineered wood products manufactured in accord
standards are also available. For example, the Co

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Association's (CPA's) Standard for Particleboard, A
maximum formaldehyde emissions for different gra
ANSI A208.2, the Composite Panel Association's S
covers MDF for interior applications and includes r
emission level for different grades of MDF.

3. VOC data:
    a. Adhesives:
        1. Submit manufacturer's product data for adh
        limits of the product. Submit MSDS highligh
        2. Submit Green Seal Certification to GS-36 a
        basis for certification.
        3. **[Submit manufacturer's certification tha
        with SCAQMD #1168.] [Submit manufact
        that products comply with SCAQMD Rul
        exposure to freeze/thaw conditions and
        moisture will not occur. In areas where f
        conditions do exist or direct exposure to
        submit manufacturer's certification that
        Bay Area AQMD Reg. 8, Rule 51 for cont
        oz and with California Air Resource Boa
        containers 16 oz or less.]**
    b. Engineered Wood Products: Provide documentatio
    and agrifiber products **[are third-party certified as
    standard requirements for formaldehyde emiss
    added urea-formaldehyde resins.]**
        1. ANSI A208.1 - 1999, Particleboard
        2. ANSI A208.2 - 2002, Medium Density Fiber
        Interior Applications

        SPECIFIER NOTE:
        Green building rating systems typically inclu
        sustainably harvested wood. USGBC-LEED
        includes credit for use of sustainably harves
        under Forest Stewardship Council Guidelin
        v2.2, a minimum of 50 percent of wood-bas
        products incorporated into the Project must
        accordance with the Forest Stewardship Co
        Green Globes-US also provides points for w
        originate from certified sources, such as, Fo
        Council, Sustainable Forestry Initiative, and
        Forest Management Program.

B. Letter of Certification(s) for Sustainable Forestry:
    1. Forest Stewardship Council (FSC): Provide letter of certifi
    supplier. Indicate compliance with FSC "Principles for Nat
    Management" and identify certifying organization.
        a. Submit FSC certification numbers; identify each ce
        line-item basis.
        b. Submit copies of invoices bearing the FSC certifica

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2. Sustainable Forestry Board: Provide letter of certification s
supplier. Indicate compliance with the Sustainable Forestr
Forestry Initiative" (SFI) and identify certifying organizatio
    a. Submit SFI certification numbers; identify each cer
    item basis.
    b. Submit copies of invoices bearing the SFI certificat
3. Canadian Standards Association (CSA): Provide letter of
lumber supplier. Indicate compliance with the CSA and ide
organization.
    a. Submit CSA certification numbers; identify each ce
    line-item basis.
    b. Submit copies of invoices bearing the CSA certifica

1.3 QUALITY ASSURANCE

A. Sustainably Harvested Wood: Certification Organizations shall be
**[Forest Stewardship Council] [Sustainable Forestry Board] [C
Association] [xxxxxxxx]**.
B. Recycled Content Materials: Where recycled lumber materials are
applications, include lumber certification and quality grading.
C. Engineered Wood Products:
    1. Determine formaldehyde concentrations in air from wood
    conditions of temperature and relative humidity in accorda
    or E1333.
    2. Determine Volatile Organic Compounds VOC), excluding
    from manufactured wood-based panels in accordance wit

PART 2 - PRODUCTS

SPECIFIER NOTE:
EO 13423 includes requirements for Federal Agencies to use "sustainabl
practices, including acquisition of biobased, environmentally preferable, e
efficient, and recycled-content products"

Specifically, under the Sustainable Building requirements per Guiding Pri
Environmental Impact of Materials, EO13423 directs Federal agencies to
or exceeding EPA's recycled content recommendations" for EPA-designa
other products to "use materials with recycled content such that the sum
recycled content plus one-half of the pre-consumer content constitutes at
cost) of the total value of the materials in the project."

Additionally, for USDA-designated biobased products, Federal agencies
meeting or exceeding USDA's biobased content recommendations; and f
biobased products made from rapidly renewable resources and certified
products.

And, under the Sustainable Building requirements per Guiding Principle #
Environmental Quality, EO13423 directs Federal agencies to use "materi
low pollutant emissions, including adhesives, sealants, paints, carpet sys

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2.1 MATERIALS

A. Lumber:
1. Resource Management:

SPECIFIER NOTE:
Disallowing the use of old growth timber may conflict with
recovered and cut from public lands than have been burne
of this draft, two examples of viable and on-going timber s
wildland fires on public land are the 500,000 acre (60 mile
in SW Oregon and the 150,000 acre (10 mile x 5 mile) Mc
Central Sierra Nevada.

a. Virgin Lumber: **[Lumber fabricated from old grov
permitted.]** Provide sustainably harvested; certifie
accordance with **[FSC] [SFI] [CSA] [xxxxx]** guide
b. Salvaged Lumber: Lumber from deconstruction or
buildings or structures. Unless otherwise noted, sa
delivered clean, denailed, and free of paint and fini
contamination.
c. Recovered Lumber: Previously harvested lumber p
otherwise abandoned. Unless otherwise noted, rec
delivered clean and free of contamination.

B. Engineerd Wood Products:
1. Toxicity/IEQ:
a. Products shall contain no added urea-formaldehyd

2.2 ACCESSORIES

A. Adhesive:
1. Toxicity/IEQ: Comply with applicable regulations regarding
materials, GS-36 for Commercial Adhesive, **[South Coast
Management District Rule 1168] [Bay Area AQMD Reg
containers larger than 16 oz and with California Air Re
(CARB) for containers 16 oz or less]**, and as specified.

B. Fasteners:
1. Recycled Content: Fabricated from 100 percent re-melted

PART 3 - EXECUTION

3.1 INSTALLATION

A. Install as indicated and in accordance with the National Associati
(NAHB) Advanced Framing Techniques: Optimum Value Enginee

3.X SITE ENVIRONMENTAL PROCEDURES

A. Indoor Air Quality:
1. Temporary ventilation: Provide temporary ventilation durin

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a. During and immediately after installation of treated
wood products, and laminated wood products at in
temporary ventilation.

B. Waste Management: As specified in Section 01 74 19 (01351) - C
Management and as follows:
1. Select lumber sizes to minimize waste; reuse scrap lumbe
possible. Clearly separate scrap lumber for use on site as
components, including: shims, bracing, and blocking.
2. Do not leave any wood, shavings, sawdust, etc. on the gr
Prevent saw dust and wood shavings from entering the st
3. Do not burn scrap lumber that has been pressure treated.
a. Do not send lumber treated with pentachlorophenc
generation facilities or "waste-to-energy" facilities.

06 11 00 - Wood Framing

Floor Framing - Information below pertains to conventional stick framing
trusses are used follow manufactures guidelines for installation. Pressur
be used where any lumber shall come into contract with concrete, mason
or roof blocking.

Girders: Install girders in pockets formed in the foundation or on
The pocket should allow a minimum of 1/2" on both sides for circu

Girders: solid wood, two or more 2" planks, laminated veneer lu
steel beams

Sills: Install single 2"x 6", 4"x 6" or double 2"x 6" solid pressure tr
horizontally on foundation. Bore holes in sills for anchor bolts.

Floor Joists: Space floor joists 12" to 16" on center (OC) depend
construction, load bearing and spanning capabilities of wood spec
a minimum 1 1/2" of bearing wood or 3" of masonry. Cut joists flu
edge of sill. If joists are lapped over girder, the minimum amount
maximum overhang is 12". Do not lap at wood I-beams. Joists sh
the end of the sub-floor sheets fall directly on the center of the floc
each bearing point using one 8d or 10d nail on each side. Nails s
from ends. Wood cross bridging shall be at least nominal 1" x 3" lu
at each end. Install one row of bridging for 12'-0" spans and less,
install two rows of bridging.

Floor Joists: 2"x 10"s, 2"x 12"s, wood I-beams, wood or s
center (OC).

Exterior Walls - All exterior walls shall be constructed with 2"x 4", 2"x 6"
center (OC), with single bottom plates and double top plates throughout.
at mid-height of all walls. For exterior corner joints, install (3) 2"x 4"'s, 2"x
Where interior partitions meet exterior walls, install 2 studs fastened toge
blocks approximately one foot long. One block is placed at the bottom, o
about center of the studs.

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