SPECIFICATION

Standard Specification for Initial Homes Components for Single Storey Construction

(Specifications and Design subject to alteration without notice)

1. BEARERS: Radiata Pine (No.1 Framing Grade) double 150 x 50 mm roughsawn H1 treated fingerjointed where necessary.
2. FLOOR JOISTS: Radiata Pine (No.1 Framing Grade) 150mm x 50mm or 200 x 50 roughsawn H1 treated. Fingerjointed or nail plated where necessary.
3. FLOORING: 20mm thick, high density particle board, treated for weather resistance. Should particle board be unavailable other suitable material will be substituted.
4. NOGGINGS: Radiata Pine ex 100mm x 50mm, 100mm x 75mm and 150mm x 50mm or 200 x 50 rough sawn or gauged H1 treated for floor noggings and roof truss nogging and bracing.
5. PERFORATED ALUMINIUM FOIL: Double sided, edge reinforced, underfloor foil insulation.
6. NAIL PLATES: For joining or connecting bearers, joists, noggings and battens where applicable.
7. INTERIOR AND EXTERIOR WALLS: Radiata Pine Initial Homes grade (43mm) ex 200mm x 50mm H1 treated kiln dried, fingerjointed where necessary, and shaped to a registered board design. This board is sealed in a water repellent solution.
8. CLEATS: 60mm long metal wall to floor fastening devices.
9. ALUMINIUM ALLOY INTERLOCKING EXTRUSIONS: (refer to diagram).
10. TRUSS PLATE: Radiata Pine (No.1 Framing Grade) ex 100mm x 50mm gauged H1 treated.
11. CAPPINGS: Radiata Pine Initial Homes grade ex 100mm x 50mm, fingerjointed where necessary to cap exposed ends of walls.
12. ALUMINIUM FOIL: Edge reinforced foil insulation for exterior wall application.
13. WALL AND CEILING BATTENS AND NOGGINGS: Radiata Pine (No.2 Framing Grade) ex 50mm x 50mm or 50mm x 40mm gauged H1 treated.
14. ROOF TRUSSES: Manufactured from Radiata Pine or Douglas Fir (No.1 Framing Grade), rough sawn gauged top and bottom only, H1 treated. Engineer designed. Certificate available on application.
15. ROOF PURLINS: Radiata Pine or Douglas Fir (No.1 Framing Grade) ex 75mm x 50mm gauged, H1 treated.
16. "Z" NAILS: 4.9mm diameter galvanised nails and multigrips to connect trusses to the truss plate. "U Nails" connection between truncated girder truss and hip truss.
17. TIERODS: 10mm diameter galvanised steel rods complete with washers and nuts, threaded one end.
18. NAILS: Various types and sizes, galvanised.
19. BUILDING PAPER: For exterior walls. A tar impregnated paper manufactured to prevent water ingress.
20. SELF SUPPORTING PAPER FOR ROOF: A tar impregnated paper manufactured to prevent water ingress.
21. ROOF IRON: Roll formed iron 0.4mm galvanised roofing with edge lap and both ends primed complete with ridge caps and barge moulds.
22. BARGE AND SPOUTING BOARDS: Radiata Pine ex 200mm x 36mm H3 treated kiln dried, fingerjointed, rebated, and sealed.
23. EXTERIOR WALL SHEATHING: Approved wall cladding — refer drawings for type.
24. WINDOW HEAD FLASHING: Extruded aluminium head flashing 1.2mm thick, powdercoated.
25. ANGLE PROFILE: 30mm x 30mm x 0.4mm folded galvanised steel profile.
26. ROOF OVERHANG LINING: Lining to conceal underside of roof overhangs complete with jointers.
27. EXTERIOR FINISHING SCOTIA: Radiata Pine (dressing grade) ex 50mm x 25mm gauged kiln dried.
28. JOINERY: Aluminium joinery coated with a thermosetting polyester resin with added Colour pigmentation electrostatically applied, complete with timber liners Radiata Pine ex 150mm x 25mm kiln dried, H1 treated, fingerjointed or other suitable materials. All glass to comply with NZS 4223. Complete with exterior sealing compound. All hardware fitted (a,b and c).
    (a) Aluminium awning hung sashes.
    (b) Aluminium exterior sliding doors: either panel sliding.
    (c) Aluminium exterior outward swinging door.
    (d) Interior doors. Flush hollow core paint quality ready to hang doors in a Radiata Pine ex 100mm x 50mm, fingerjointed, timber frame. Hardware and furniture included.
    (e) Exterior timber door. Constructed and prehung in an aluminium subframe. The door is inward opening with hardware supplied.

29. SCRIBER: Radiata Pine ex 50mm x 15mm H3 treated kiln dried, fingerjointed, sealed.

30. INTERIOR FINISHING MATERIALS:

    (a) Scotia, Skirting and Beading

    (b) Shelving

    (c) Shelf Battens

    All (a), (b) and (c) Radiata Pine, kiln dried, fingerjointed.

    (d) Wardrobe rails, 19mm diameter powder coated" steel pipe complete with holders.

31. CEILING: Refer drawings for type.

32. BATH AND LAUNDRY TUB LININGS: Water resistant smooth surface wall boards complete with jointers, edge mouldings and adhesive.

33. INTERIOR FITTINGS: Bathroom vanity units with top and bowl, laundry cupboard with stainless steel tub and kitchen sink bench with stainless steel or formica top and kitchen fittings with prefinished tops. Carcasses are of paint quality with self closing hinges.

34. CEILING INSULATION: Glass wool fibre. Suitable materials will be substituted if glass wool fibre is unavailable.

35. 19mm LINING BOARD: Ex 200mm x 25mm kiln dried, H1 treated.

36. STIFFENERS: Ex 100mm x 100mm laminate, 124mm x 86mm constructed of 3 ex 100mm x 50mm laminates wall stiffener post, H1 treated.

37. HEADPACKERS: Ex 50mm x 50mm radiata pine H1 treated kiln dried.

38. GARAGE COMPONENTS: (When supplied as an enhancement)

    (a) Ex 100mm x 50mm No.1 framing grade H1 treated Radiata Pine gauged.

    (b) Lintols (to suit openings), No.1 framing grade H1 treated Radiata Pine gauged. Ex 150mm x 100mm, ex 200mm x100mm, ex 300mm x 100mm.

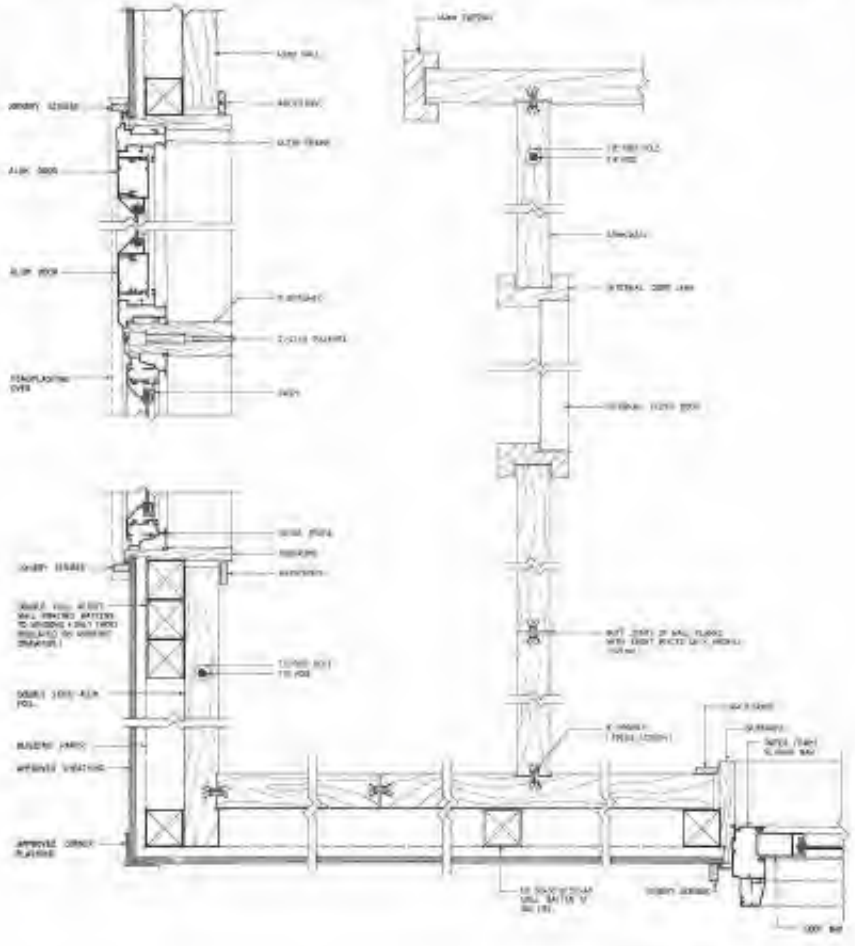
    (c) Plywood bracing panels: 7.5mm standard construction plywood. Installation in accordance with BRANZ appr. cert. N: 224 (1992).

    (d) 25mm x 1.2mm strapbrace and purpose made tensioners fixed with F.H. galv. nails.

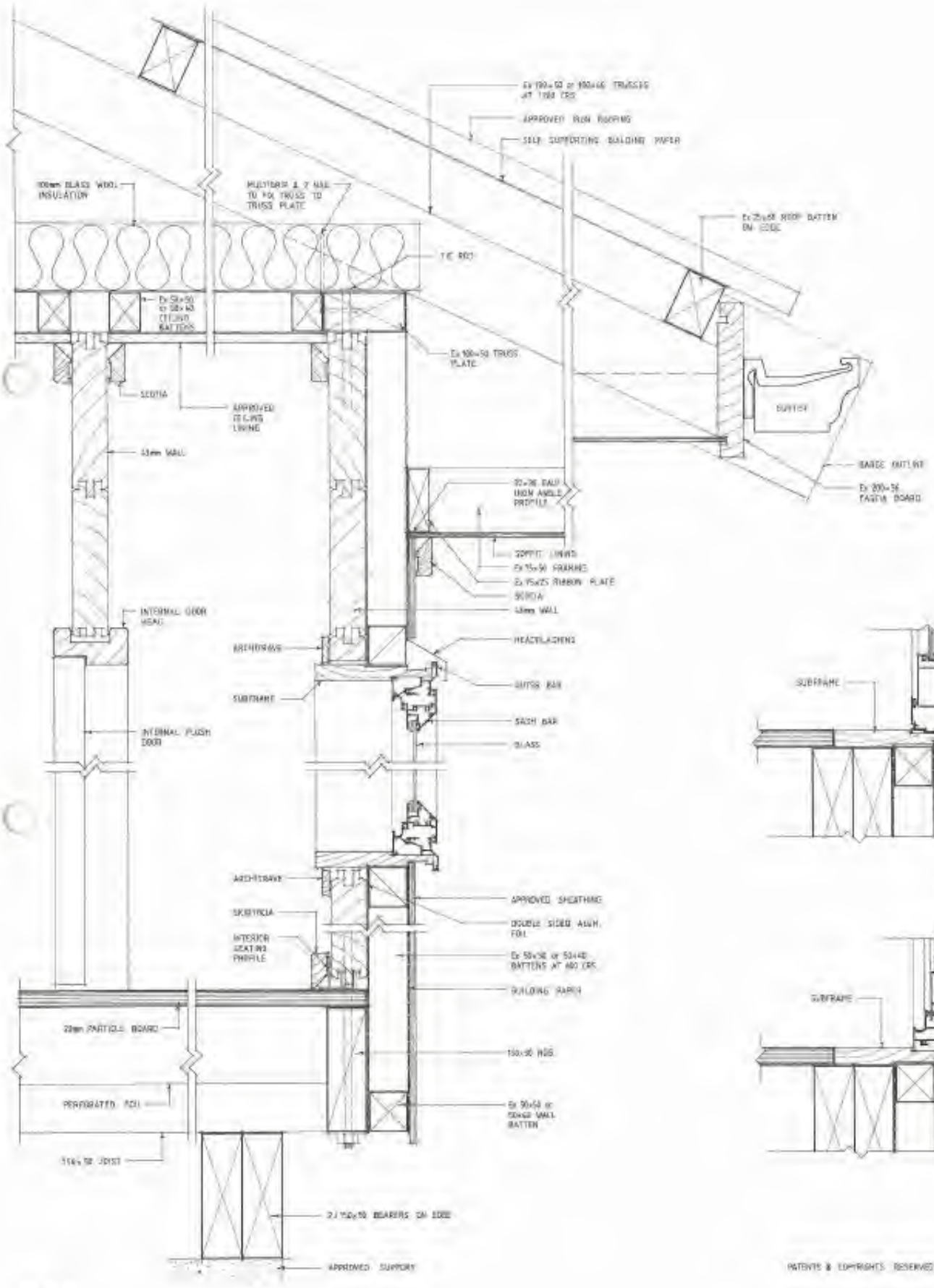
    (e) Trusses (as per No.14).

NOTE: ITEMS NOT INCLUDED IN THE PURCHASE SHOULD BE STRUCK OUT OF THIS SPECIFICATION.

HORIZONTAL CROSS SECTION OF 'INITIAL' COMPONENTS



VERTICAL CROSS SECTION OF 'INITIAL' COMPONENTS



PATENTS & COPYRIGHTS RESERVED

19 4 95 DM

TIMBER TREATMENT CLASSIFICATION

Hazard Class — H1

Description: Where timber (including plywood) is used out of contact with the ground and in situations which are adequately ventilated and continuously protected from the weather by roofs. This timber preservation is a protection against timber destroying fungus and insect attack in areas other than the tropical countries where white ants and termites are found.

Hazard Class — H3

Description: Where timber (including plywood) may be exposed to the weather but will not be in contact with the ground. Besides preventing fungal decay, this class of treatment protects timbers from attack by white ant, formosan termites, and timber destroying insects as found in tropical countries.

TIMBER PRESERVATIVES

Either of the following timber treatment alternatives may be used subject to availability.

L.O.S.P. — Light organic solvent preservatives Hazard Class H1 and H3. This treatment is applied by double vacuum pressure application, to the timbers.

Boric Hazard Class — H1

This treatment is a method of timber preservation applied by the diffusion process containing boron compounds.

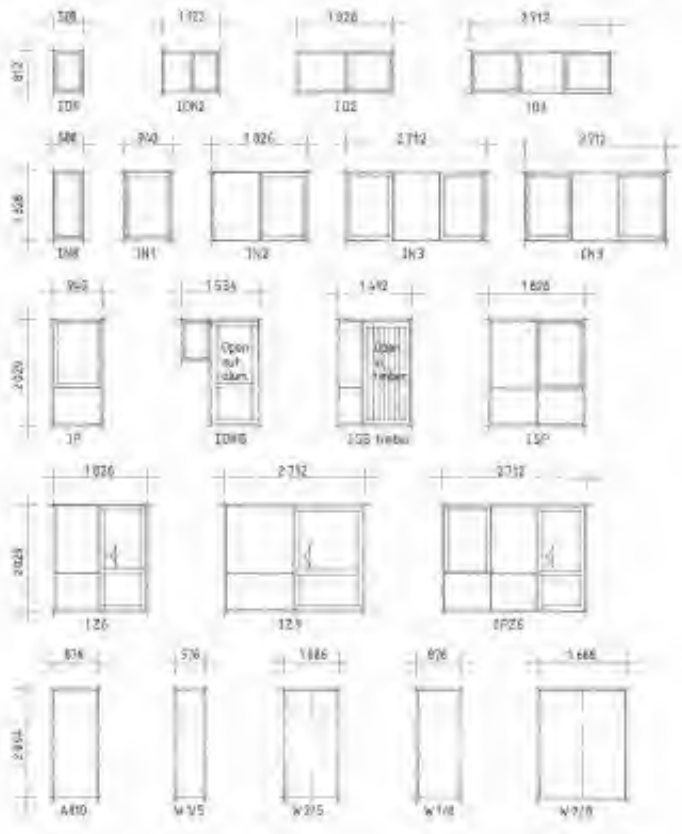
Multi-Salt Hazard Class — H3

This is a treatment using copper chrome arcenate multi-salt timber preservative applied under pressure to the timber.

IMPORTANT INFORMATION

1. Whilst endeavours to ensure that any advice, recommendation, specification or information it may give is accurate and correct, it cannot, because it has no direct control over where or how its products are applied, accept any liability either directly or indirectly, arising from the use of its products, whether or not in accordance with any advice, specification, recommendation or information given by it.
2. In general, the quality of material and standard finish for Initial components will be within the limits of the specification. NZ Building Systems Ltd is the manufacturer of building components. Initial Homes Limited sells components through appointed franchise builders who enter into building contracts with individual building purchasers. Any responsibility of NZ Building Systems Ltd in any area, is confined solely to components supplied by NZ Building Systems Ltd. (Due to changes in atmospheric conditions, movement could occur after construction of the timber components. This has been allowed for in the design of the system.)
3. The basic Initial system for the standard range of plans has been designed for windspeeds up to 50 metres per second to comply with New Zealand Standards 3604. Where topography, elevation or degree of exposure of the building site result in higher windspeeds, special consideration must be allowed for in the design.
4. NZ Building Systems Ltd is continually researching and developing its product range. Therefore, specifications or designs may change without notice.
5. Powder Coating: Given that there could be slight batch to batch variations in powder coated colour, these variations will not exceed a Delta E of five as measured on a McBeth Spectrophotometer using numerical colour equation F C M 2.
6. Radiata pine is a natural renewable resource that comes from plantation grown forests in New Zealand.
7. The Initial building system is covered in many countries by Patents, Copyrights, Design Registrations and Trade Marks. Numbers for these are available upon request.
8. All components in this specification comply with the New Zealand Building Code when used under normal conditions.

KEY TO CURRENT OVERALL SIZES OF INITIAL ALUMINIUM JOINERY AND INTERIOR DOORS



INITIAL HOMES PATENTS AND COPYRIGHTS RESERVED 16/6/95

Initial Homes Ltd, Russell Road, ROTORUA. Telephone (07) 347-8261. Fax (07) 349-2999

IB 5.95 2m

RECOMMENDED INSTALLATION PROCEDURES

Use of "THE NAILER" in lieu of wood blocking will result in labor and material savings of approximately $200 to $300 per single family home depending on size and construction methods used.

To realize these savings we recommend the following procedures:

1. In the initial layout, eliminate any additional studs or ladder panels at all interior corners, whether at outside walls or interior partition intersections. Do not install backing on top of walls parallel with floor or ceiling joists.

2. Install "THE NAILER" at the very end of the framing stage before the framing crew leaves the job.

3. There is only one measurement necessary for vertical corner applications (wall to wall) and this is at the horizontal seam where the wall panels meet. Both sheets can be fastened to one "NAILER" at this seam. Mark a 2x4 template. If using .5" drywall on the ceiling, this measurement will be 48.5" down from the top plate. For 8' walls mark the template at 16.5", 32.5", 48.5", 64.5" and 80.5" down from the top plate. Using the template, one person with a marking pen lays out the location for "THE NAILER" in every vertical corner. Another person can rapidly follow with a staple gun.

4. Install "THE NAILER" with (2) .5" staples. Five per 8' Vertical as well as one above every stud (wall to ceiling corner) on your partitions that are parallel to the floor or ceiling joists. These fastening procedures are determined by the "Gypsum Association's standards for installing drywall". We recommend using a Makita Cordless Stapler CT220D or an electric stapler. A handheld Arrow Stapler may also be used. If you apply a "NAILER" to the end grain of the top plate, install it with (1) drywall screw or nail.

5. In the event of "Truss-Lift", place and staple "THE NAILER" to the top plate on either side of the truss. Fasten or float the ceiling panel to "THE NAILER". Do not fasten to the truss any closer than 16" from the corner. This procedure will greatly limit wall to ceiling corner cracking in most cases.

6. When installing the drywall on the ceiling, it is suggested that all joints fall on a "NAILER". Depending on the layout, the first sheet in each room may need to be cut for this to occur.

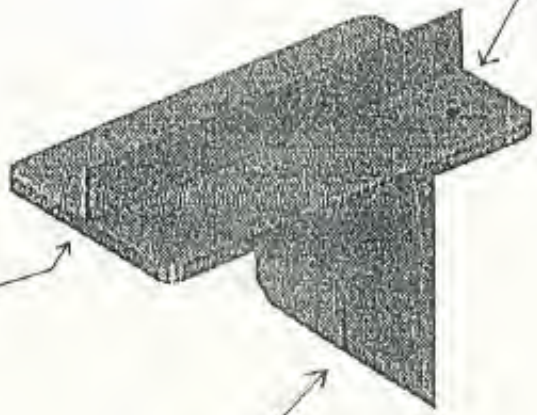
7. The layout and installation for 450 "NAILERS" in a 2700 sq. ft. house should not exceed (3) man hours. Installation of traditional wood blocking will take at least (6) hours per house. In most cases, depending on what methods are used, the labor savings should be noticeable.

Should you have any further questions regarding installation procedures please feel free to call us at (800) 504.0043.

THE NAILER

NEW & IMPROVED

PRE-TAPPED HOLES
FOR ADDITIONAL FASTENING
(IF DESIRED)



THICKER / TIGHTER GRID
FOR BETTER SCREW GRIP

CENTER LINE
FOR ACCURATE SEAM PLACEMENT
(ie: 48 5/8" DOWN FROM TOP PLATE)

THE NAILER IS A RECYCLED PRODUCT WHICH MAY RESULT IN DIFFERENT COLORS & TONES
THIS IN NO WAY EFFECTS THE PERFORMANCE OF THIS PRODUCT

The NAILER *It's simply well designed!*

Makes the work of Carpenters & Drywallers easier.

EASY INSTALLATION • SAVE LABOR

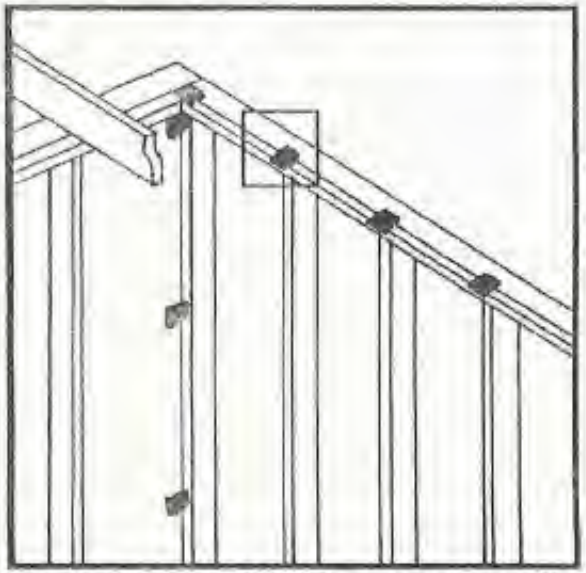
This is the drywall fastener the building industry has been waiting for! ***The NAILER*** is installed by the carpenter, remodeler or DIY'S. Simply eliminate all wood backing, then install ***The NAILER*** at the end of the framing stage. A 2,500 sq. ft. home will use approximately 350 ***NAILERS*** and will take only 2 1/2 hours to install. Traditional wood backing can range between 6 & 12 hours depending on the methods used.

BUILD A BETTER HOUSE • SAVE LUMBER

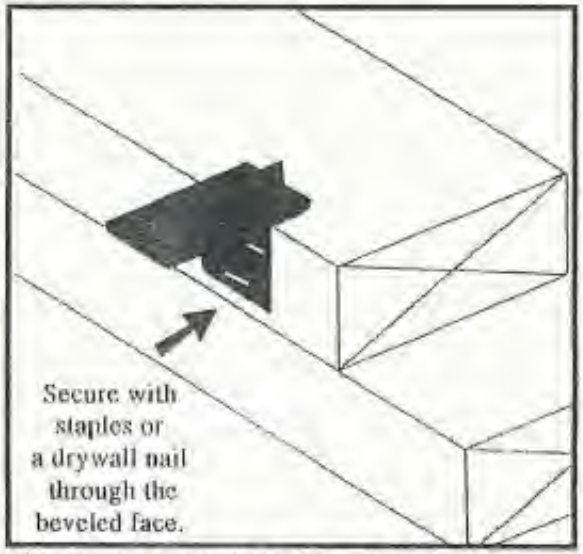
The NAILER improves thermal efficiency by eliminating extra studs in outside walls. Reduces corner cracking, eliminates screw pops and lowers callback costs.

THE NAILER MEETS THE CRITERIA THAT BUILDERS FACE IN TODAY'S COMPETITIVE, EVER-CHANGING MARKET.

- SAVES NATURAL RESOURCES
- USES RECYCLED PRODUCTS
- IMPROVES PERFORMANCE
- LOWERS COST-IMPROVE MARGINS



*Just attach **The NAILER** to the top plate of the wall or to the structural stud using a standard staple gun. (1/2" staples min.)*



This is an expanded view of the boxed area within the illustration above.

MOST FREQUENTLY ASKED QUESTIONS ABOUT THE NAILER

Q. Does *The NAILER* require any special tools or training?

A. No. Standard hand held or pneumatic staple or nail guns are all that are required. Simply install *The NAILER* 16" on center.

Q. What will my Drywall Contractor think of *The NAILER*?

A. There is no change in procedure. The builder provides the backing, the drywaller simply fastens to *The NAILER* just like wood. The down-stem of *The NAILER* is exposed for screw placement.

Q. What will my customers think about *The NAILER*?

A. They view the use of *The NAILER* as a better method. They save energy costs and receive better overall performance through reduced maintenance problems.

Q. What about codes?

A. The Uniform Building Codes do not address drywall backers or fasteners. They defer to the Gypsum Association which allows "clips" where approved.

Q. Is *The NAILER* approved?

A. Yes. *The NAILER* is a PFS Tested product. Tests were conducted using ASTM specifications: * E 72-80 * D 756-78 * E 695-79. Tests included Racking Resistance, Impact Load, Aging of Plastics & R&D Splitting.

THE NAILER®

For Supporting Interior Drywall Corners

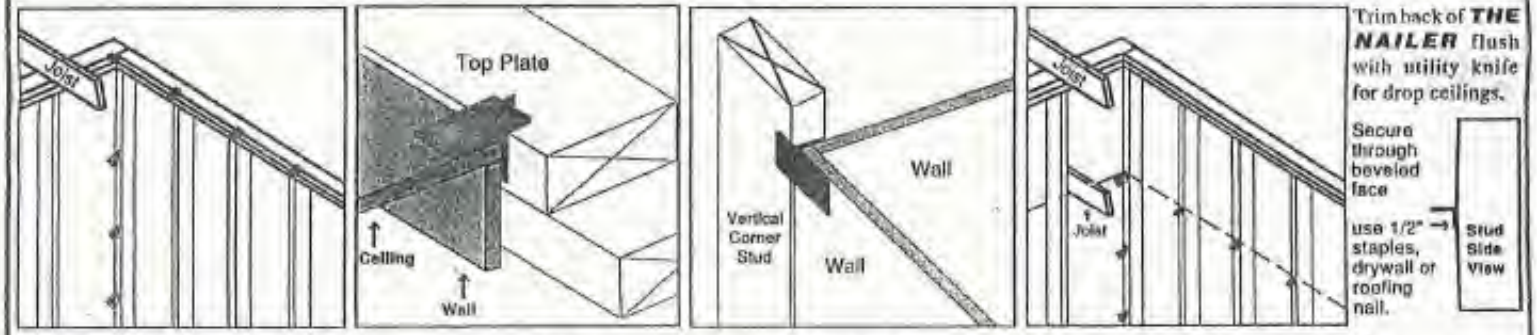
Saves Time • Saves Money

NO MORE installation of wood lath catcher or blocking!
NO MORE awkward drywall fasteners or clips!
FAST — ECONOMICAL — NOW



At every interior corner (wall to wall *or* wall to ceiling) you must provide a nailing surface for all drywall edges. Rather than using costly lumber, you now have the option of using ***THE NAILER***, a recycled product, at a fraction of the cost. ***THE NAILER*** saves time, money, and labor as well as our forests.

Designed by a Builder, for the Builder, the Framer, the Drywaller!



*Apply **THE NAILER** to walls running parallel to joist* | *Wall to Ceiling* | *Wall to Wall* | *Drop Ceiling Application*

Helpline: 1 - 800 - 280 - 2304

Quantity 20 Net. Wt. 4.5 oz.
20 NAILERS replaces 26 Lin. ft. of wood. (16" on center)

Directions:

1. Identify any interior wall and/or ceiling corner.
   DO NOT INSTALL WOOD LATH CATCHER OR BLOCKING!
2. Starting at one end of the wall, staple **THE NAILER** above every stud, up to 24" on center.
   (Use 1/2" staples min. or drywall nails) **NO NEED TO MEASURE!**
3. Place 3 staples through the beveled face of the stem of ***THE NAILER***, two at top, one near the bottom. If more strength is desired, place 2 nails or screws through the pre-tapped holes down into the "TOP PLATE". (this is normally NOT necessary.)
4. Attach drywall by screwing any conventional drywall screw through drywall into the anti-skate grid surface.
5. ***THE NAILER*** can be easily trimmed for drop ceiling applications. (see last illustration)

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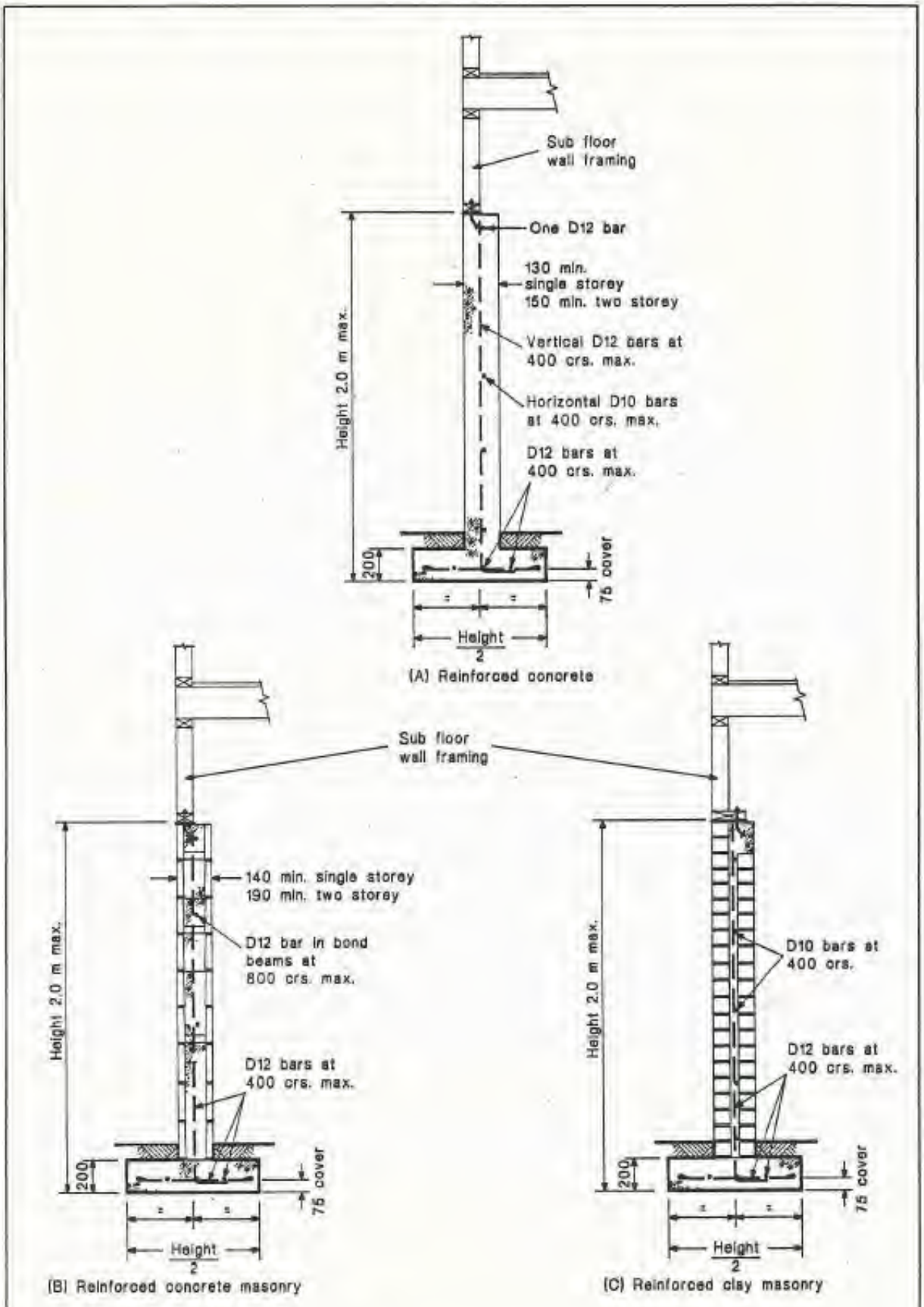


Fig. 4.14
CANTILEVERED FOUNDATION WALLS