PRESERVED WOOD FOUNDATIONS

SETUP

- SITE SELECTION
- AVOID LOW LYING AREAS
- GOOD DRAINING SOILS PREFERRED
- MINIMAL AMOUNT OF EXCAVATION

GETTING STARTED

- REMOVE TOP SOIL / VEGETATION TO UNDISTURBED SOIL

FOOTINGS

- INSTALL GRANULAR DRAINAGE LAYER
- SET FORMS FOR CONCRETE FOOTINGS ON DRAINAGE LAYER OR UNDISTURBED SOIL WITH DRAINAGE PIPING

FOOTINGS

- PLACE CONCRETE FOOTINGS OR WOOD FOOTING PLATE ON DRAINAGE LAYER

SUMP PIT

- SUMP PIT TO BE PROVIDED

FOUNDATION WALLS

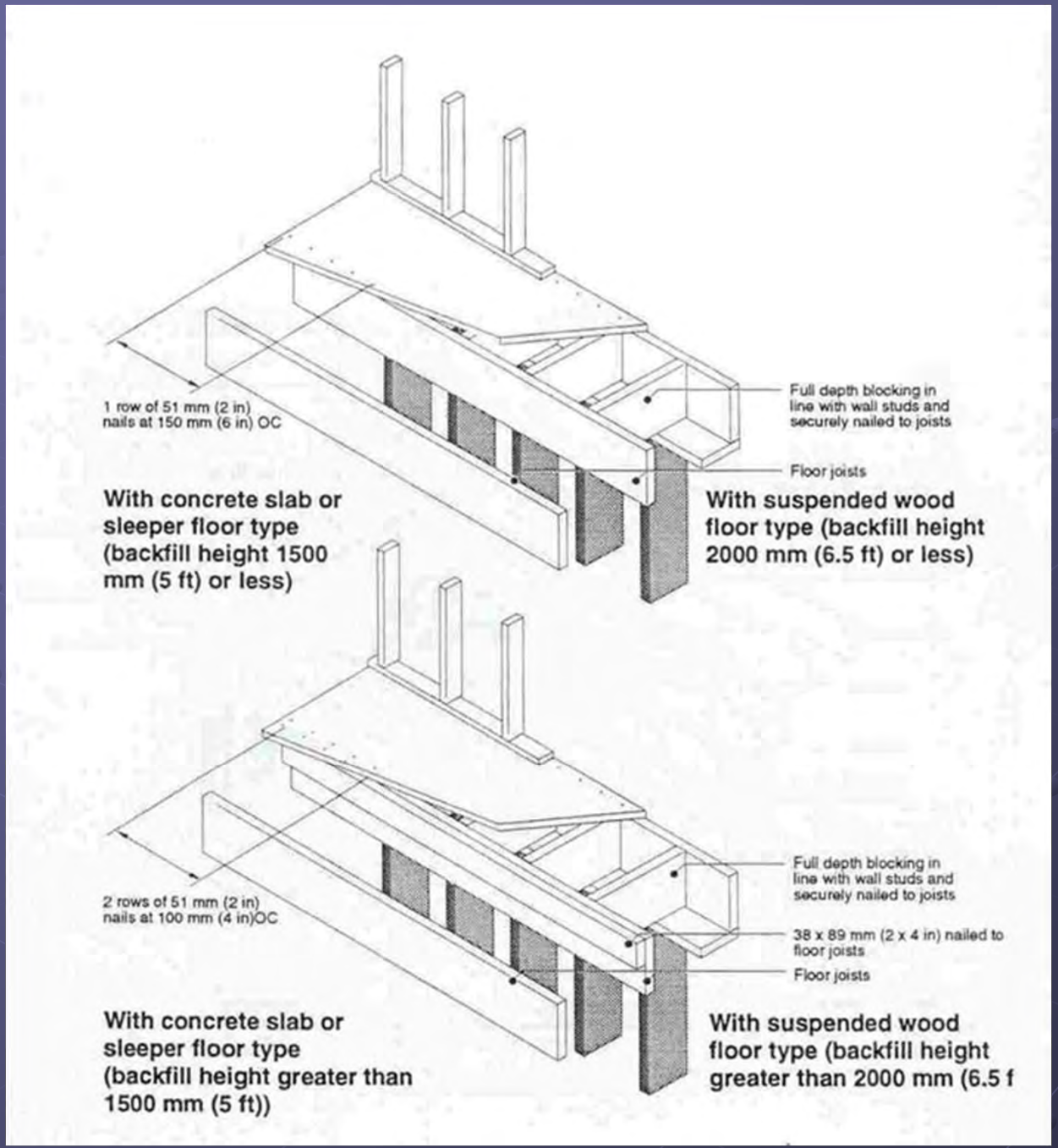
- CONSTRUCT FOUNDATION WALL FOR BASEMENT OR CRAWL SPACE
- TREAT CUT ENDS OF STUD WITH PRESERVATIVE & PLACE AT TOP OF WALL
- FRAME IN WINDOW OPENING WITH REQUIRED FRAMING AND ANCHORS

FOUNDATION WALLS

- INSTALL PRESSURE TREATED PLYWOOD SHEATHING ON OUTSIDE FACE OF WOOD STUD WALL
- CAULK BETWEEN PANELS
- ALTERNATIVE - INSTALL MANUFACTURED WALL PANEL THAT HAS BEEN APPROVED FOR BELOW GRADE INSTALLATION

LATERAL TIES

- INSTALL FLOOR FRAMING (NAILING JOISTS TO TOP OF WALL)
- WALLS PARALELL TO JOIST REQUIRE BLOCKING


1 row of 51 mm (2 in) nails at 150 mm (6 in) OC
Full depth blocking in line with wall studs and securely nailed to joists
Floor joists
With concrete slab or sleeper floor type (backfill height 1500 mm (5 ft) or less)
With suspended wood floor type (backfill height 2000 mm (6.5 ft) or less)
2 rows of 51 mm (2 in) nails at 100 mm (4 in)OC
Full depth blocking in line with wall studs and securely nailed to joists
38 x 89 mm (2 x 4 in) nailed to floor joists
Floor joists
With concrete slab or sleeper floor type (backfill height greater than 1500 mm (5 ft))
With suspended wood floor type (backfill height greater than 2000 mm (6.5 f

LATERAL TIES

- RESTRAINT AT BOTTOM OF WALL - SLAB OR CONTINOUS BLOCKING, OR BRACES.

DAMPPROOFING

- INSTALL MOISTURE BARRIER INTO CAULKING
- LATEX EMULSION IS OPTIONAL
- INSTALL COVER PLATE BOARD AND CORNER PROTECTORS

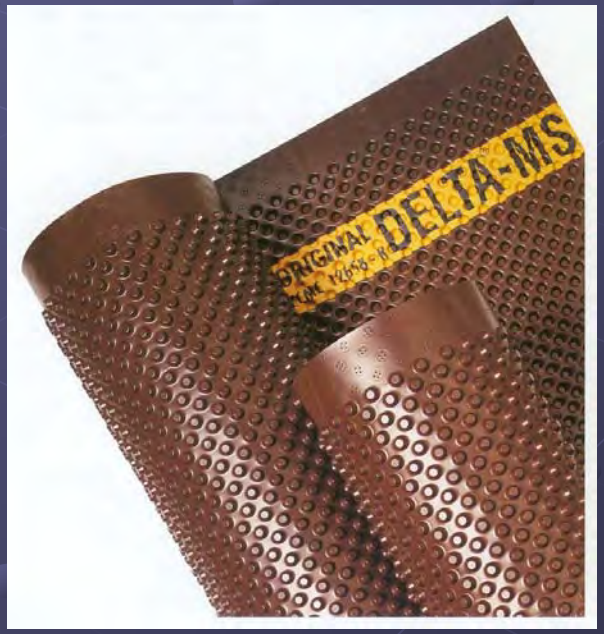

Do-it center


Do-it center
Do-it center
Do-it center


HEM/FIR
INDUSTRIES
HEM/FIR
HEM/FIR

BACKFILL

- BACKFILL WITH COURSE SAND/GRAVEL, GOOD DRAINING SOIL
- MANUFACTURED DRAINAGE LAYER IS OPTIONAL



EXAMPLES OF FAILURE

- WHEN POOR FRAMING TECHNIQUES ARE USED OR THE STANDARDS ARE NOT FOLLOWED THE FOLLOWING COULD HAPPEN


03/02/2004

BP
03/02/2004


Tuck
Tuck
03/02/2004

GRADE

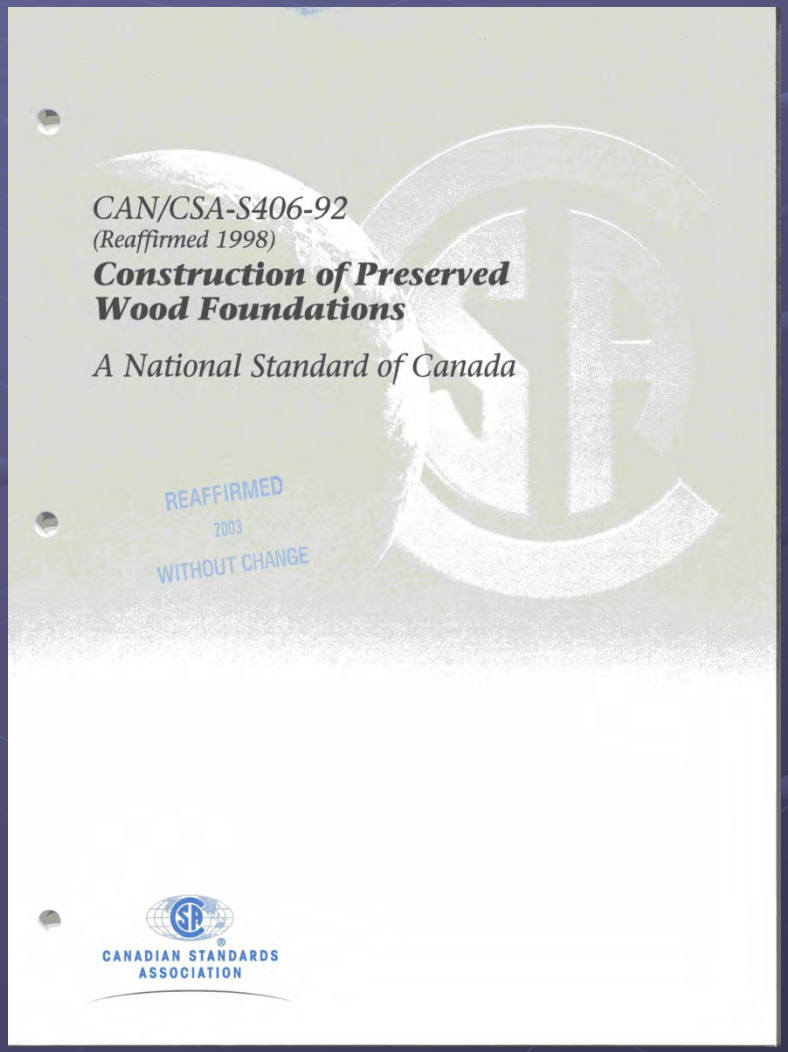
- GRADE AWAY FROM BUILDING WITH SLOPE 1 IN 12

INTERIOR

- INSULATE CAVITY WITH BATT OR RIGID INSULATION
- BATT INSULATION UP 2” FROM CRAWL SPACE FLOOR
- VAPOUR BARRIER

CSA STANDARD

CAN/CSA-S406-92 CONSTRUCTION OF PRESERVED WOOD FOUNDATIONS



CANADIAN WOOD COUNCIL
PERMANENT WOOD FOUNDATIONS