Building Lilac - Joe Atkinson


05/04/2012: Site cleared
BOMAG
FISHER


Foundation trenches for blocks 2 & 6
FISHER CONSTRUCTION Ltd.
Tel. 01924 203460
Building on a
Good Foundation

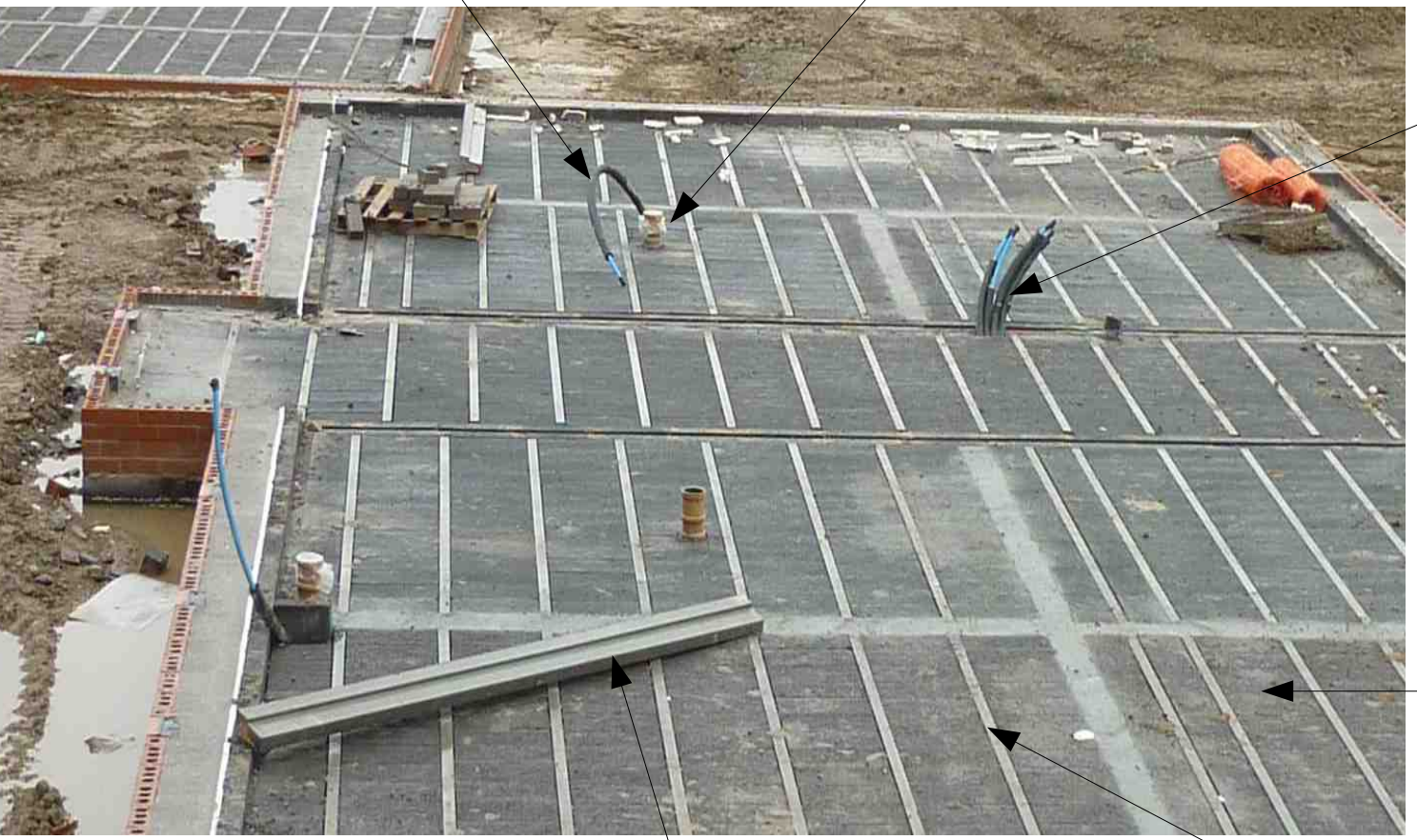

23/05/2012: Strip foundations
Concrete poured into trench (block 4)
Block work sits on top of poured concrete strip (block 3)

10/07/2012 Foundation & sub-floor complete (for most blocks)

Water supply & sewerage brought through the floor

Ground floor flat water supply

Shared SVP (soil vent pipe)



Water supply to upper flats taken up through service riser in hallway

Concrete blocks sit between beams

“Beam & Block” floor

Reinforced concrete beams

Spare beam on it's side shows section/profile

Top of foundations

Ventilation under sub-floor

Duct carries air flow from vent (above ground) down to below beam & block sub floor

Vent at top of foundation

17/08/2012 walls

Prefabricated wall panels:
Glu-lam frame engineered in Austria; assembled, filled with straw bales & rendered in a “flying factory” in Dewsbury

Subsequent courses of bales “knitted together with sharpened broom sticks

Fork-lift compresses penultimate course of bales to make room for final course.

When forks removed, lower courses spring back up; whole wall panel now under roughly equal compression

Bales straightened and trimmed

A rough coat of render is sprayed onto panel


Damp-proof membrane (DPM)
isolates walls from footings
Timber to form the sole plate


DPM & Sole plate in place


03/09/2012
Wall panel in position:
resting on sole plate (now hidden)
& DPM


06/09/2012
Foam junction between panels:
As timber panels move/shrink, foam will expand to maintain airtightness


Wall penetrations:
Diameter kept to a
minimum to
minimise heat loss
Boiler flue
Gas supply

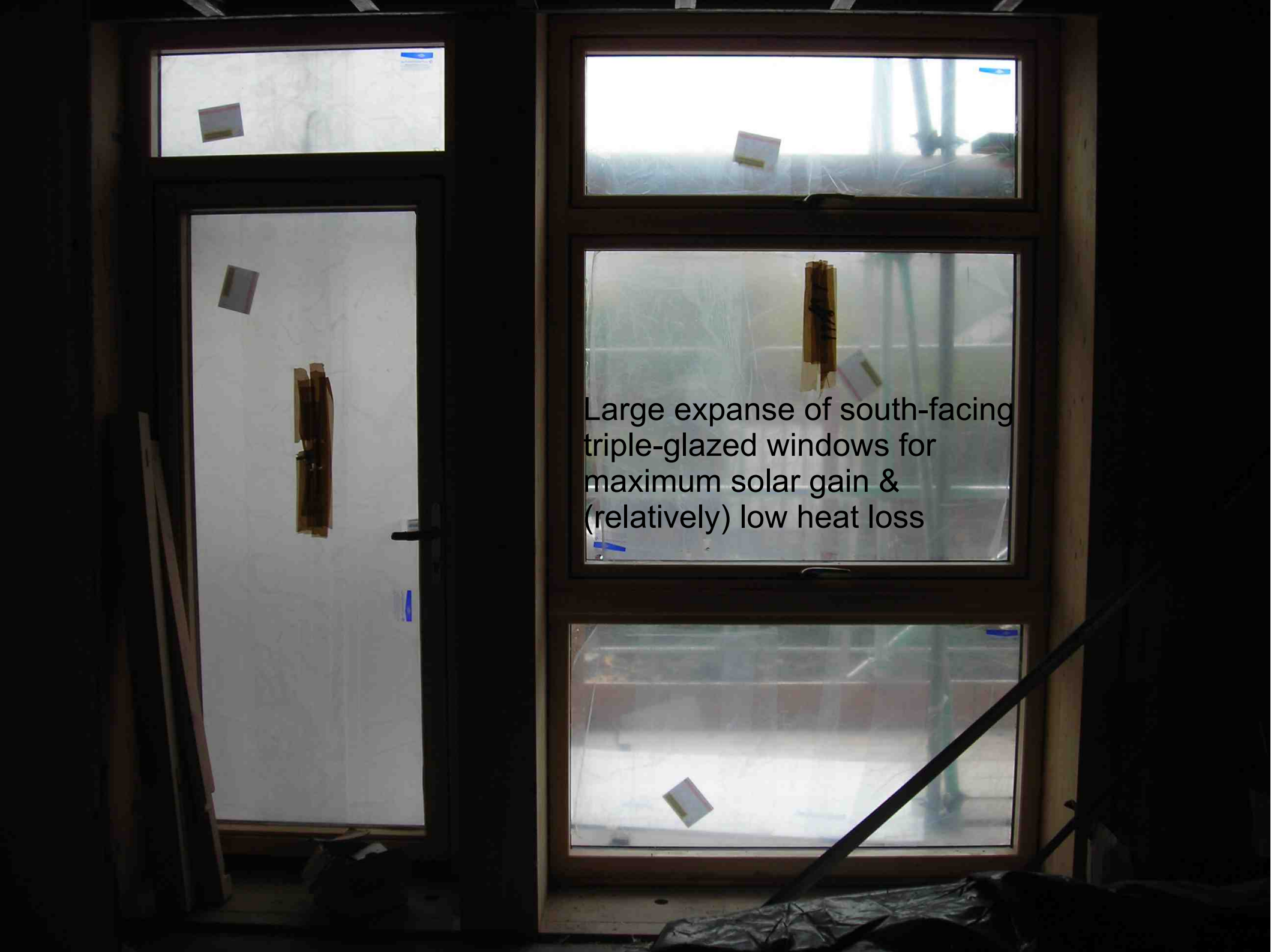
Interior stud walls from FSC timber & OSB (Orientated Strand Board)

Ground floor: 100mm polystyrene insulation (not enough!), vapour barrier (clear plastic sheet) & concrete screed on top.


12/10/2012 Roof cassette
being craned into position
AINSCOUGH


Ducting for MVHR (Mechanical Ventilation with Heat Recovery)
Water for bathrooms & radiators in PVC pipes in ceiling void
Mineral wool insulation in ceilings


Ducting above
MVHR unit
(incorrectly installed)
Gaps in insulation =
heat loss


Large expanse of south-facing triple-glazed windows for maximum solar gain & (relatively) low heat loss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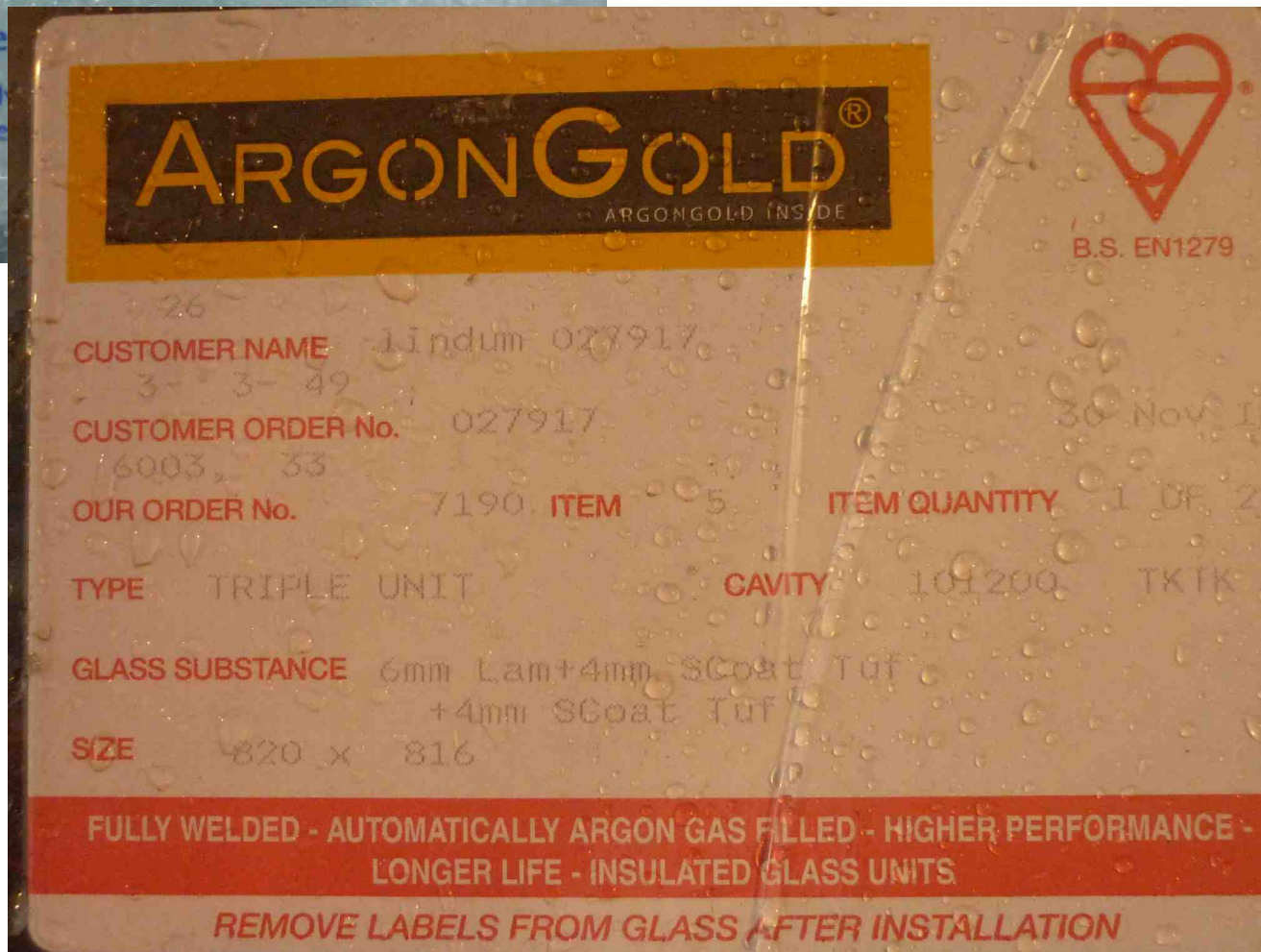
GLASS
SGG PLANITHERM® FAMILY
Advanced performance low-E glass
For optimum performance, glaze
The SGG PLANITHERM FAMILY is a range of ad
which can reduce heating bills and help me


ARGONGOLD®
ARGONGOLD INSIDE
B.S. EN1279
CUSTOMER NAME
CUSTOMER ORDER No.
OUR ORDER No.
ITEM
ITEM QUANTITY
TYPE
TRIPLE UNIT
CAVITY
GLASS SUBSTANCE
6mm Lam+4mm SCoat Tuf
+4mm SCoat Tuf
SIZE
FULLY WELDED - AUTOMATICALLY ARGON GAS FILLED - HIGHER PERFORMANCE - LONGER LIFE - INSULATED GLASS UNITS
REMOVE LABELS FROM GLASS AFTER INSTALLATION

12/12/2012 Vent Axia Kinetic MVHR/Cooker hood Unit


Solar thermal
(hot water)
system

Standard gas condensing boilers:

Sole water & space heating strategy in flats

Supplements solar thermal in houses

Solar P.V. (Photovoltaic)