Natural & Sustainable Building and Renewable Energy Design

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Today, I’m going to talk to you about............
ROCKS!
........MUD!
.....STRAW!
LUSTY LOUISE LURED BOY, 15 FOR SEX

A MUM of three nicknamed Lusty Louise has been put on the sex offenders register for seducing a 15-year-old boy.

Louise Linnane, 35, took the boy's virginity during a trip to a country fair when young kids were locked away in an operator's room. The panic-stricken teenager managed to escape and the police was called.

Louise Linnane was found and interviewed by the police. She admitted to the boy's sexual assault and was then arrested.

Six days on... and still no President

EXCLUSIVE

By John Truip

Continued on Page Two
CEMENT!
......the Environment!

I'm with Stupid
Homeless And Poor People's Initiative (HAPPI)

Affordable Natural & Sustainable Building Technology Consulting, Teaching, and Training

Registered Nonprofit Organisation No. 060-239-NPO
Registered Trust No. IT2075/2007

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Remote, Rural Community-Build Projects, Using Adobe (Mud) Bricks:

- Eastern Cape, South Africa
Subsidised Housing Projects:

- Blantyre & Lilongwe, Malawi
- Lynedoch Eco Village, Western Cape, South Africa
Commercial Adobe (Mud) Brick Making:

- Spier, Lynedoch, Western Cape, South Africa.

- New Mexico Earth, Albuquerque, New Mexico, USA
Adobe (Mud Brick) Construction:

- Swilling/Anneke Residence
  Lynedoch Eco-Village,
  Western Cape, South Africa
Hydraform

Compressed Earth Block System:

- Yei, Western Equatorial Province, South Sudan
Straw Bale Construction:
- Custom Solar Residence
  Wisconsin, U.S.A.
INSULATION
Up to 25% of heat escapes through an uninsulated roof.
**Conductive**: Direct contact.

**Convective**: Steam, moisture.

**Radiant**: Electromagnetic. All objects above absolute zero (-273.2 degrees C.) emit infrared rays in a straight line in all directions.

During the summer months, 93% of the heat gain through the roof is from radiant energy.
### Levels of Insulation to Achieve Deemed-to-Satisfy Rule for Energy Efficiency in an Unventilated Roof and Ceiling Construction

#### Climate Zones

<table>
<thead>
<tr>
<th>Minimum required Total R-value (m².K/W) (for roof solar absorptance of more than 0.55)</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>6</th>
</tr>
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<tbody>
<tr>
<td>**</td>
<td>3.7</td>
<td>3.2</td>
<td>2.7</td>
<td>3.7</td>
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<td>3.5</td>
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#### Direction of Heat Flow

<table>
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<tr>
<th></th>
<th>Up</th>
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#### Estimated Total R-Value (m².K/W) of Roof and Ceiling Materials (Roof covering & plasterboard only)

| | 0.35 - 0.40 | 0.41 - 0.53 | 0.35 - 0.40 |

#### Estimated Minimum added R-Value of Insulation (m².K/W)

| | 2.30 - 3.35 | 2.15 - 2.29 | 3.10 - 3.15 |
Residential Adobe (Mud Brick) & Natural Materials Projects:

- Santa Fe, New Mexico, USA
- Hollywood, California, USA
Commercial Projects:
-Santa Fe, New Mexico, USA
Passive & Active Solar Heating and Cooling Projects:
- Albuquerque, New Mexico, USA
- Somerset West, Western Cape, SA
- Sustainability Institute, Lynedoch.
SOLAR HEAT PUMP
Thank You Very Much For Attending My Presentation Today.

I Hope You Enjoyed It!