





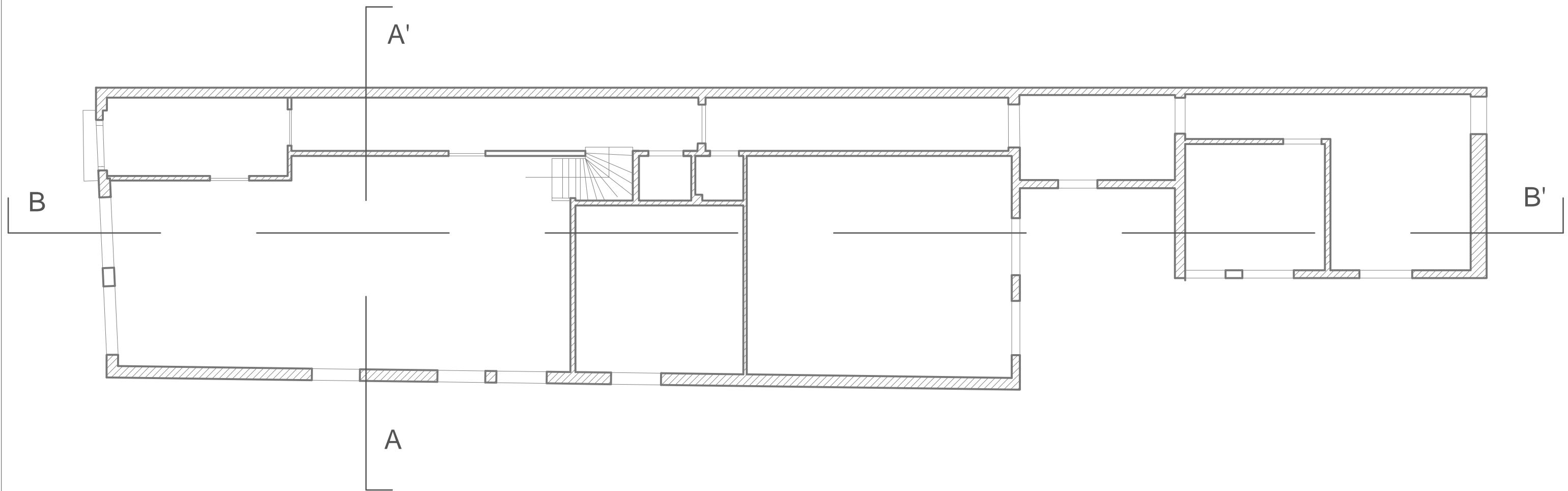
Main facade

|        |                          |   |
|--------|--------------------------|---|
|        | Main fachade             | Date 20 Junio 2014  |
| E 1:50 | Vano Navarro, Carlos     | Format A3   |
| 1.1    | Energy Eficient Franeker |  |




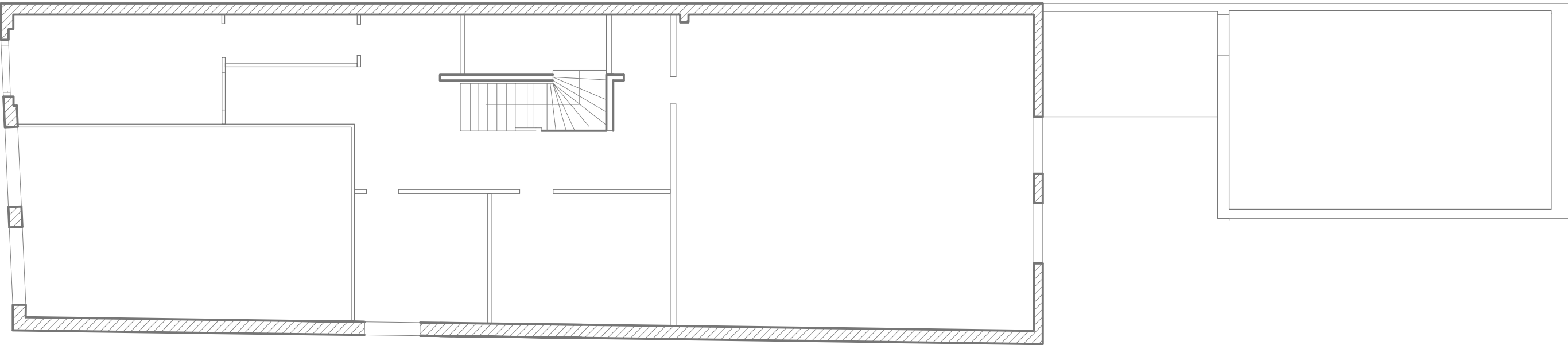
Back facade

|        |                           |  |
|--------|---------------------------|--|
|        | Back facade               | Date 20 Junio 2014   |
| E 1:50 | Vano Navarro, Carlos      | Format A3  |
| 1.2    | Energy Efficient Franeker |  Hanzehogeschool<br>Groningen<br>University of Applied Sciences |




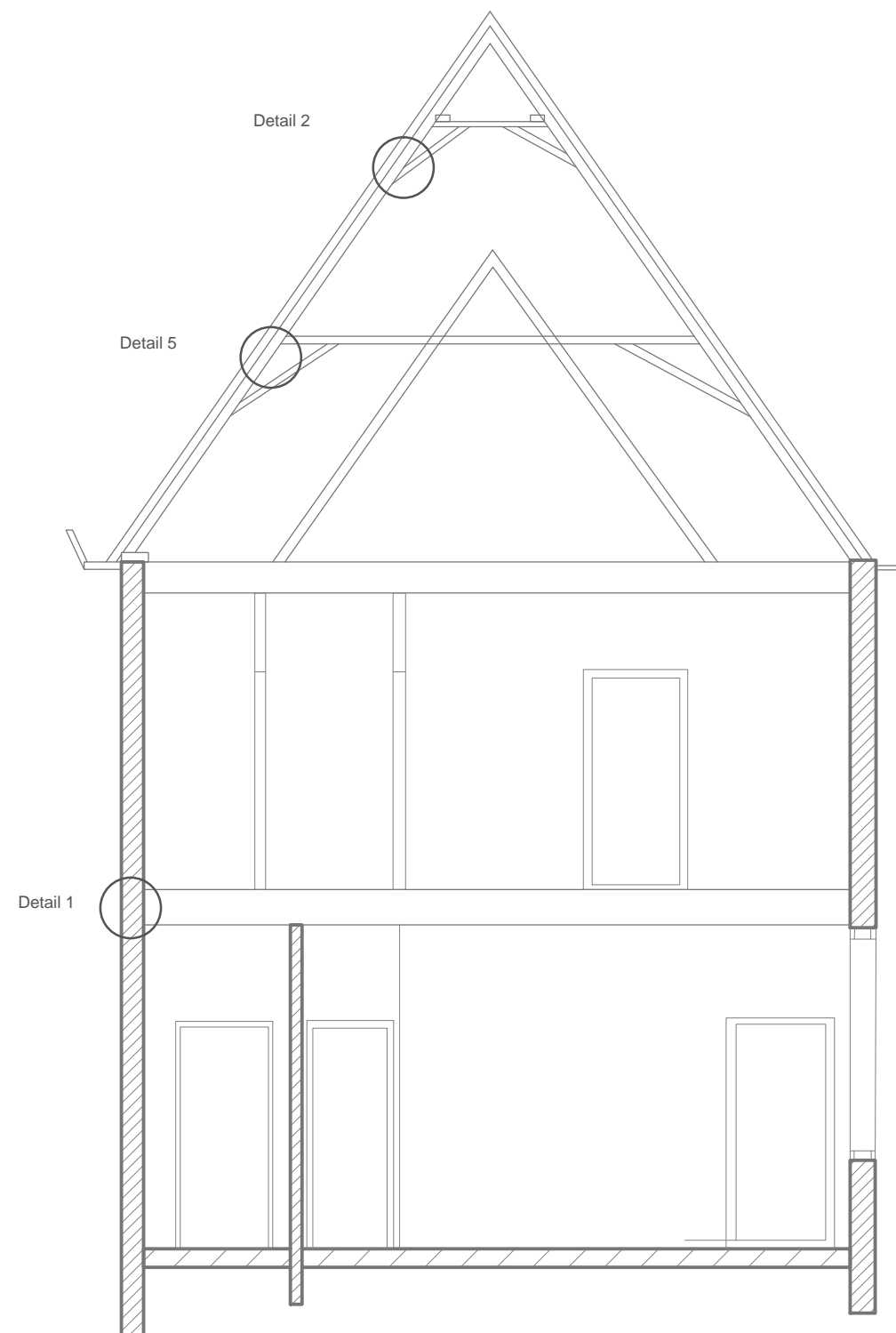
Ground floor

|         |                            |   |
|---------|----------------------------|---|
|         | Ground floor               | Date 20 Junio 2014  |
| E 1:100 | Vano Navarro, Carlos       | Format A3   |
| 1.3     | Energy Efficient Franecker |  |




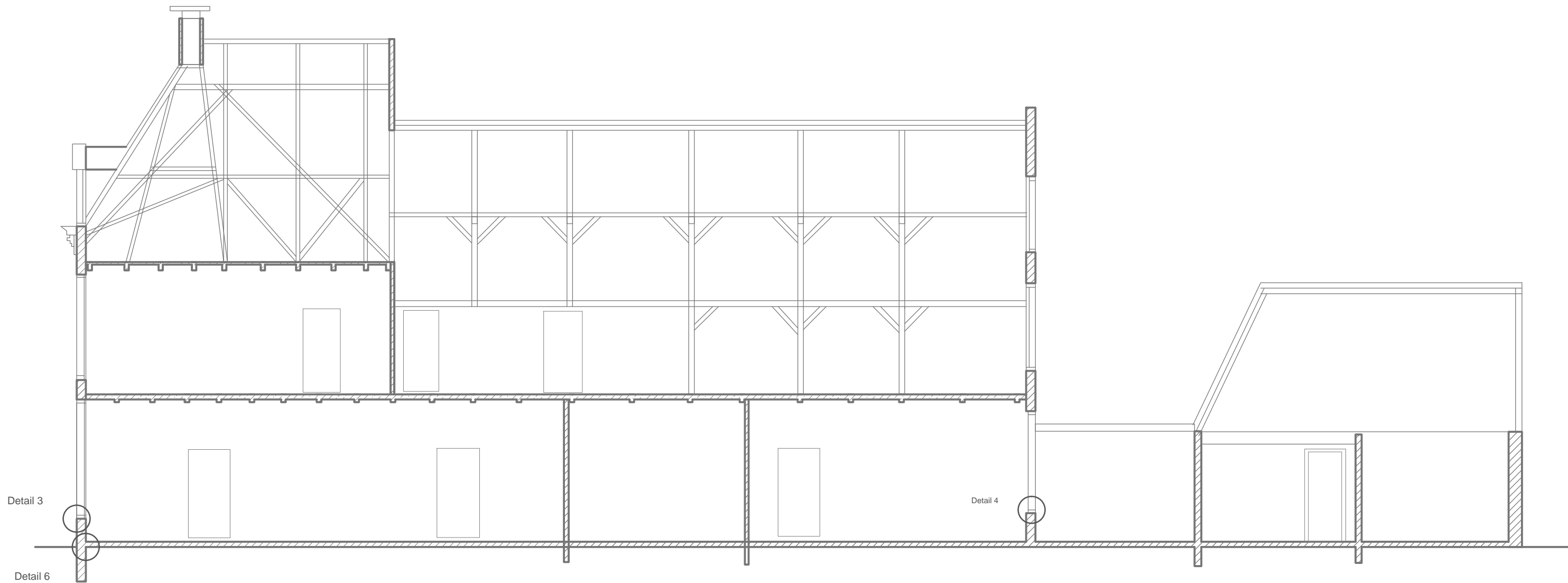
First floor

|         |                          |   |
|---------|--------------------------|---|
|         | First floor              | Date 20 Junio 2014  |
| E 1:100 | Vano Navarro, Carlos     | Format A3   |
| 1.4     | Energy Eficient Franeker |  |




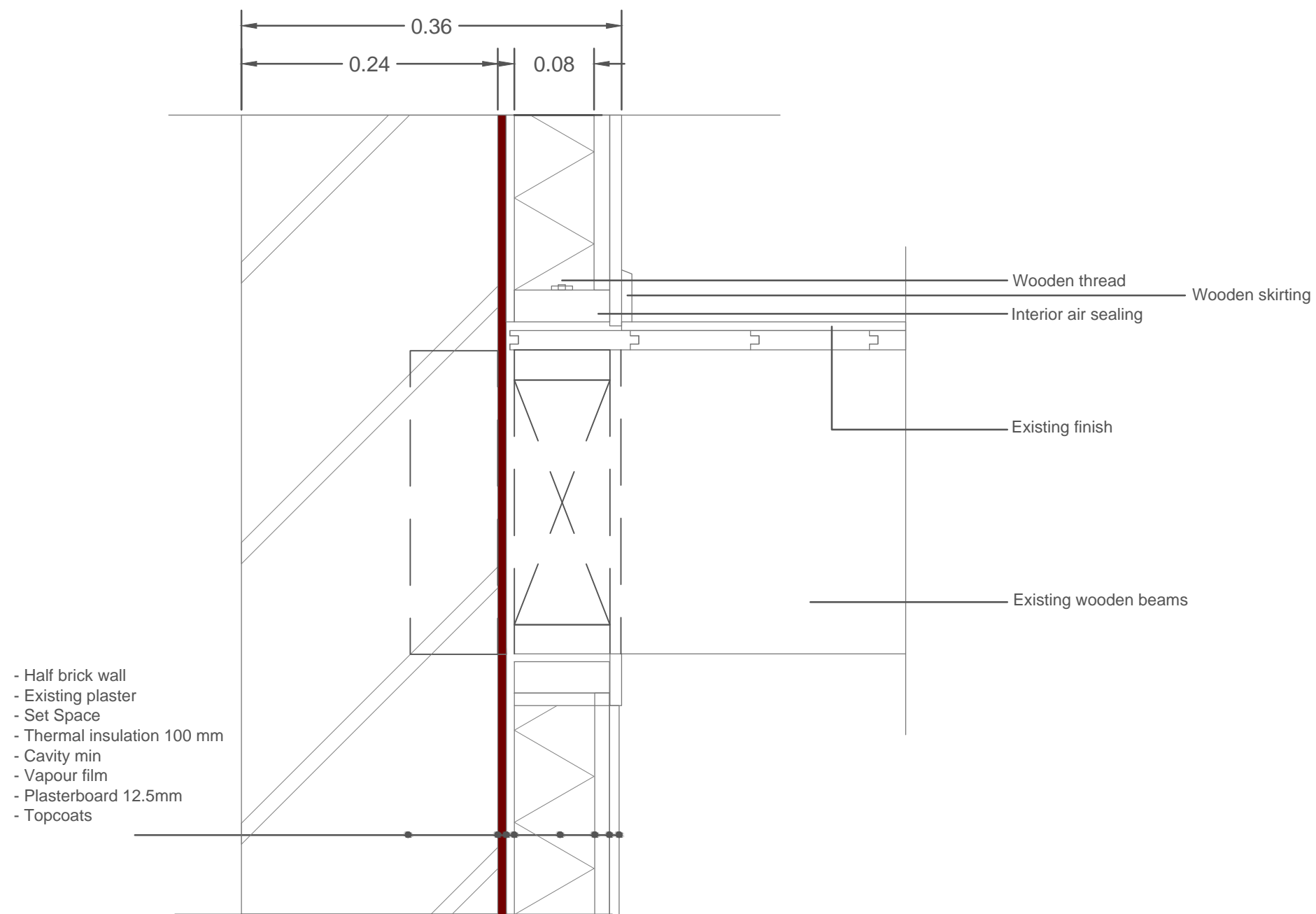
Section A-A'


|        |                           |   |
|--------|---------------------------|---|
|        | Section                   | Date 20 Junio 2014  |
| E 1:75 | Vano Navarro, Carlos      | Format A3   |
| 1.5    | Energy Efficient Franeker |  |



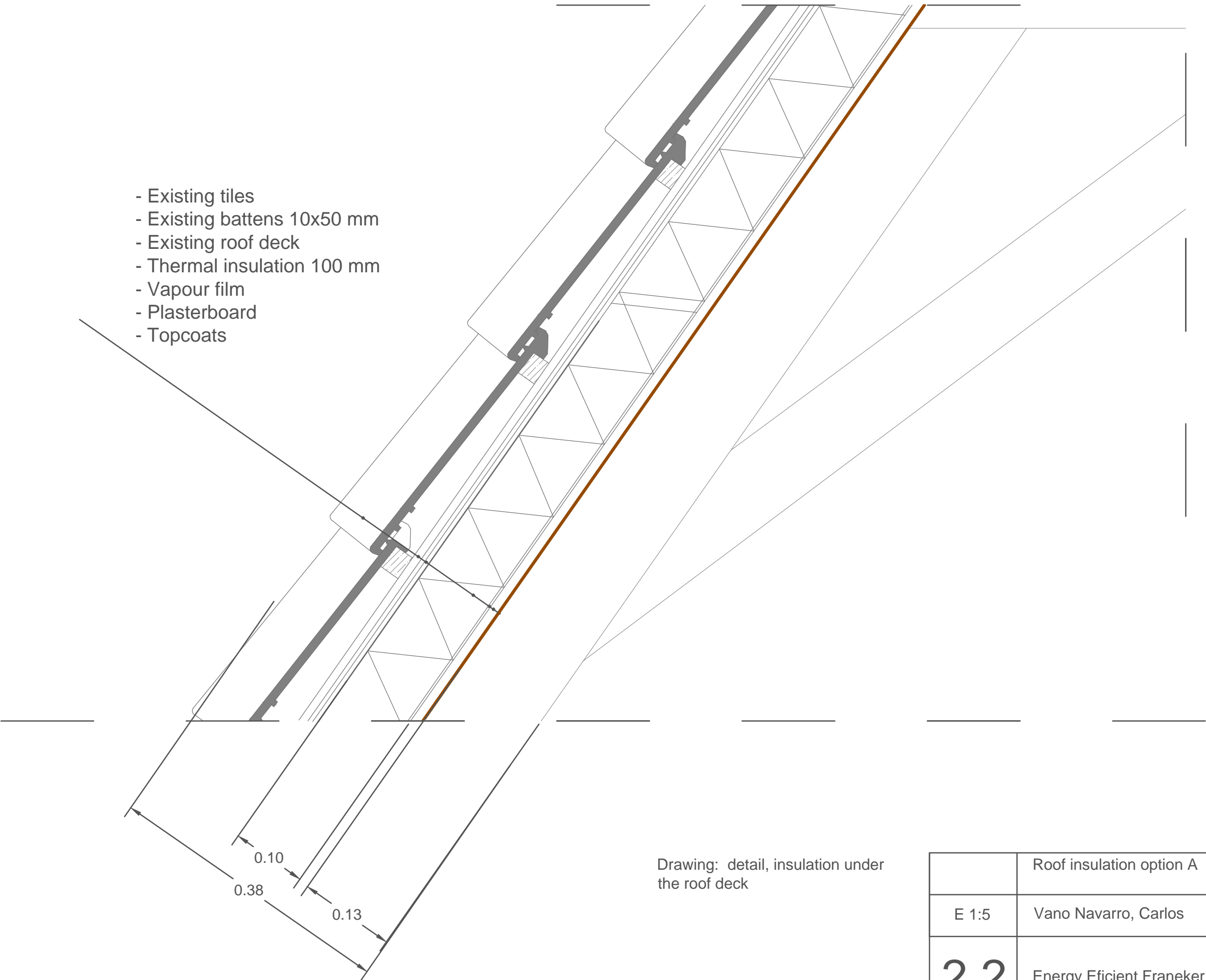
Section B-B'

|         |                        |   |
|---------|------------------------|---|
|         | Longitudinal section   | Date 20 Junio 2014  |
| E 1:100 | Vano Navarro, Carlos   | Format A3   |
| 1.6     | Energy Efcient Franeke |  |




|       |  |  |
|-------|--|--|
|       | Drawing: insulation wall cladding<br>on battens work | Date 20 Junio 2014   |
| E 1:5 | Vano Navarro, Carlos                                 | Format A3  |
| 2.1   | Energy Efficient Franeker                            |  <b>Hanzehogeschool<br/>Groningen</b><br>University of Applied Sciences |

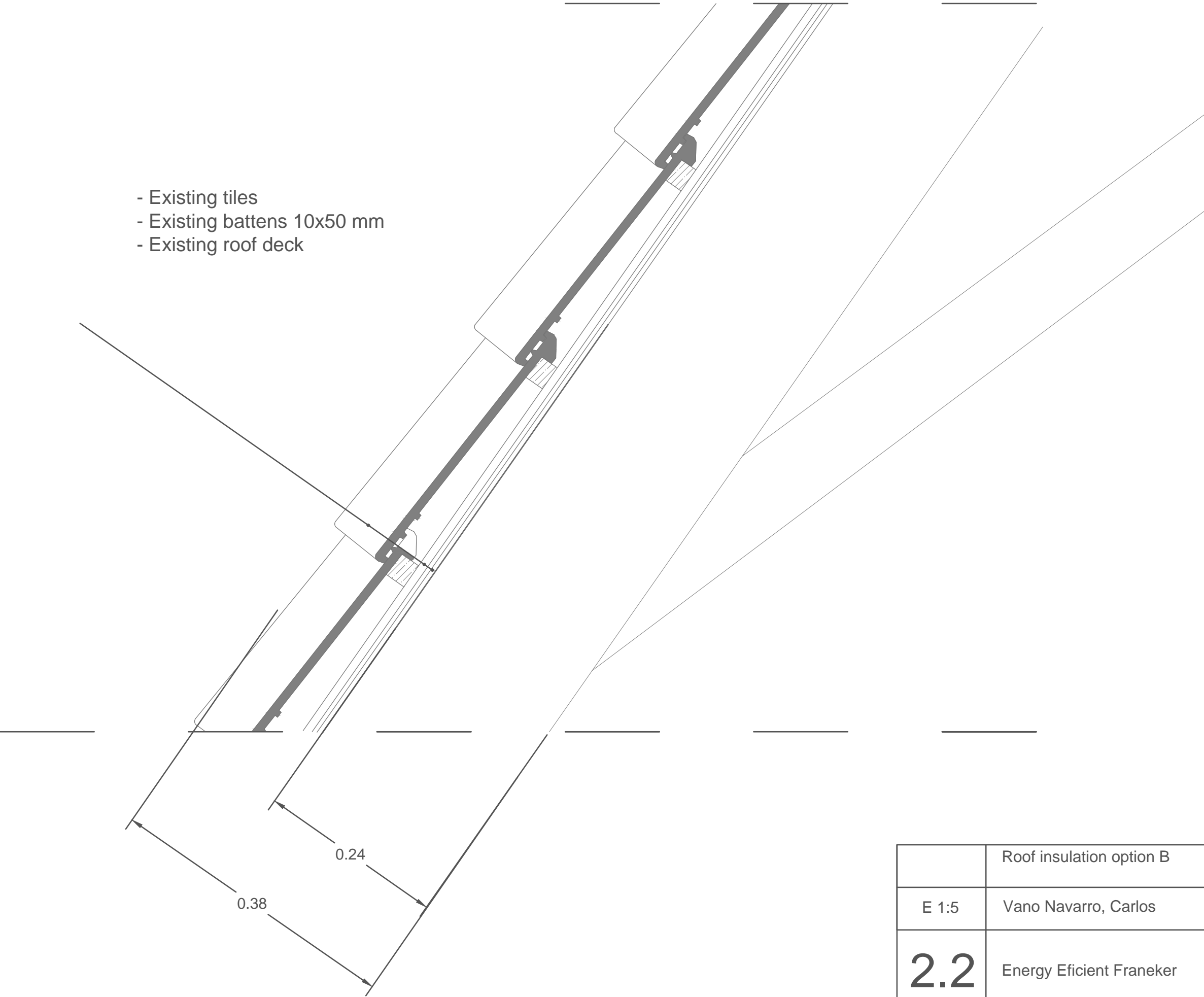
- Existing tiles
- Existing battens 10x50 mm
- Existing roof deck
- Thermal insulation 100 mm
- Vapour film
- Plasterboard
- Topcoats




Drawing: detail, insulation under the roof deck

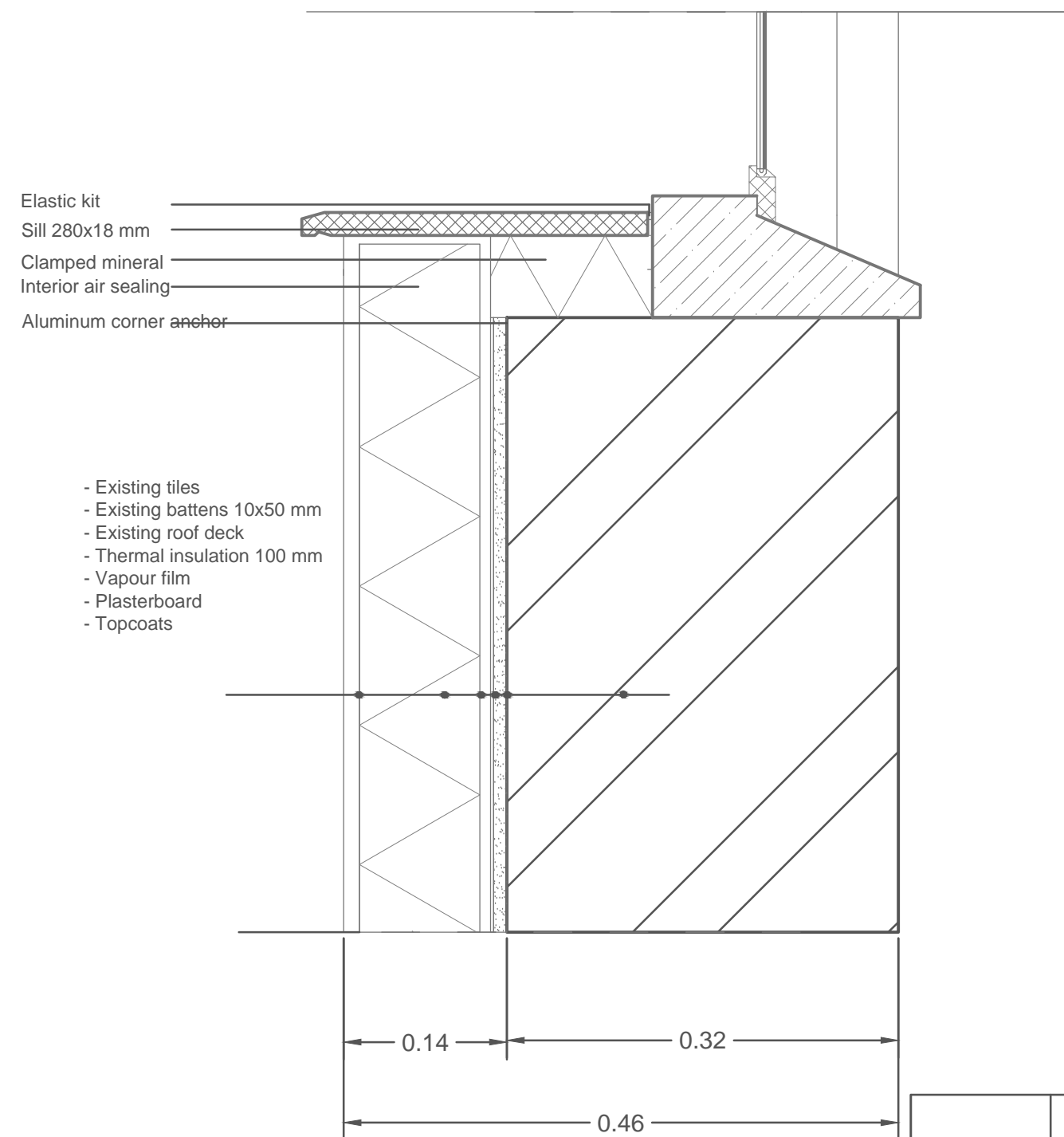
|       |                           |   |
|-------|---------------------------|---|
|       | Roof insulation option A  | Date 20 Junio 2014  |
| E 1:5 | Vano Navarro, Carlos      | Format A3   |
| 2.2   | Energy Efficient Franeker |  Hanzehogeschool Groningen<br>University of Applied Sciences |




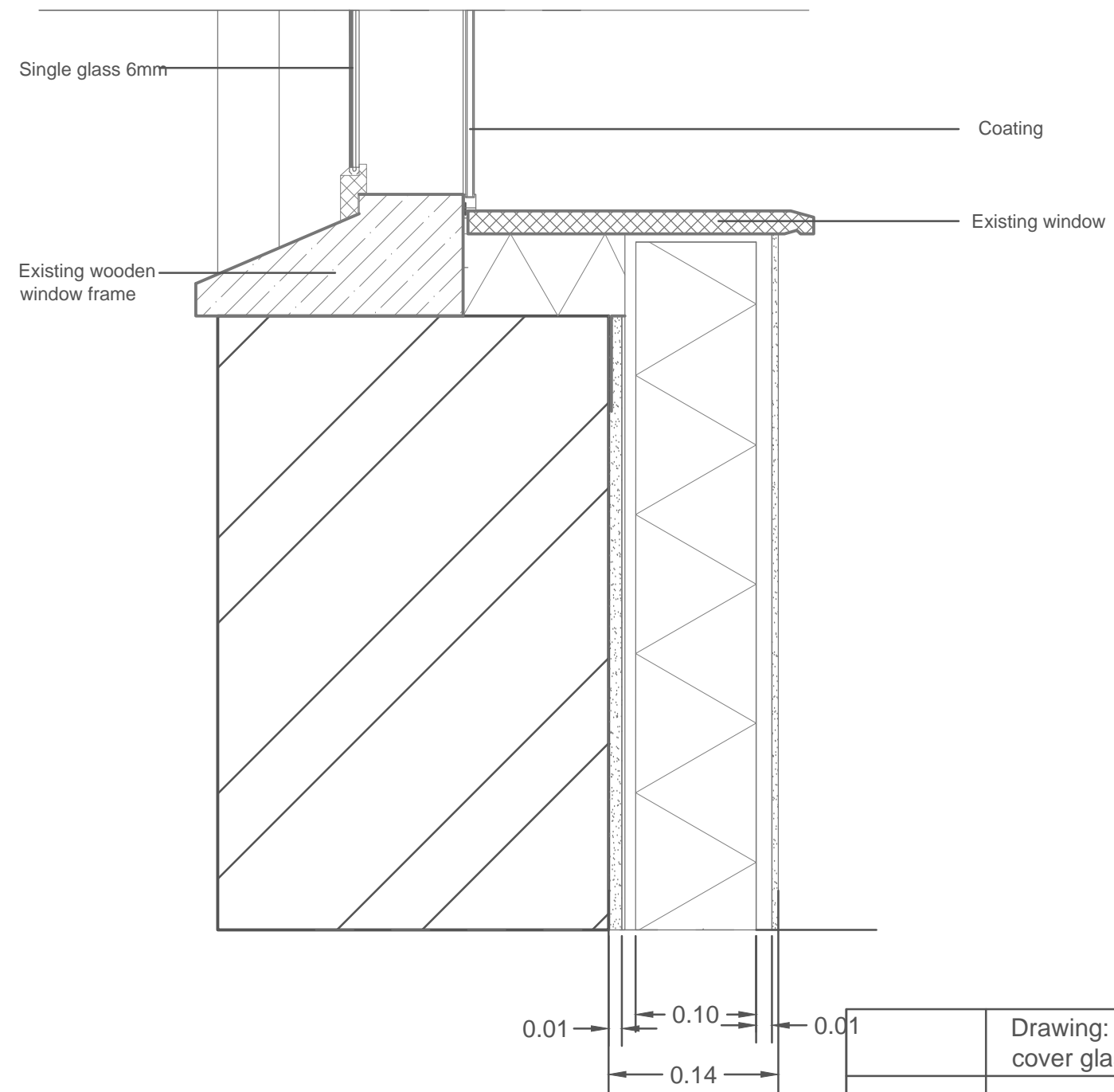



- Existing tiles
- Existing battens 10x50 mm
- Existing roof deck

|       |                           |   |
|-------|---------------------------|---|
|       | Roof insulation option B  | Date 20 Junio 2014  |
| E 1:5 | Vano Navarro, Carlos      | Format A3   |
| 2.2   | Energy Efficient Franeker |  Hanzehogeschool Groningen<br>University of Applied Sciences |




|       |   |   |
|-------|---|---|
|       | Drawing: frame detail insulation against wall | Date 20 Junio 2014  |
| E 1:5 | Vano Navarro, Carlos                          | Format A3   |
| 2.3   | Energy Efficient Franeker                     |  Hanzehogeschool Groningen<br>University of Applied Sciences |

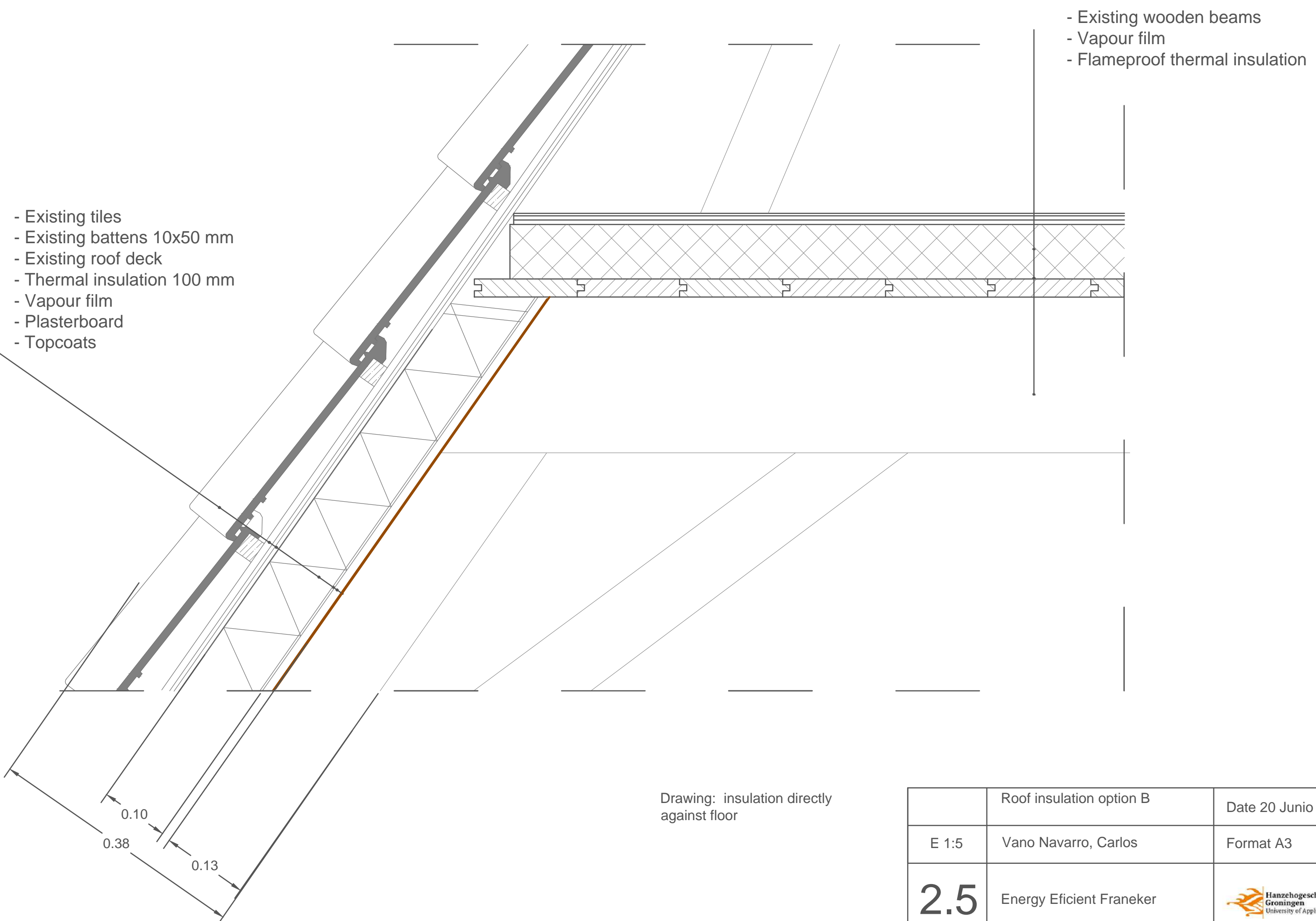


|       |   |   |
|-------|---|---|
|       | Drawing: detail, with frame cover glass on the inside | Date 20 Junio 2014  |
| E 1:5 | Vano Navarro, Carlos                                  | Format A3   |
| 2.4   | Energy Efficient Franeker                             |  Hanzehogeschool Groningen<br>University of Applied Sciences |

- Existing tiles
- Existing battens 10x50 mm
- Existing roof deck
- Thermal insulation 100 mm
- Vapour film
- Plasterboard
- Topcoats

- Existing wooden beams
- Vapour film


|       |                           |   |
|-------|---------------------------|---|
|       | Roof insulation option A  | Date 20 Junio 2014  |
| E 1:5 | Vano Navarro, Carlos      | Format A3   |
| 2.5   | Energy Efficient Franeker |  Hanzehogeschool Groningen<br>University of Applied Sciences |

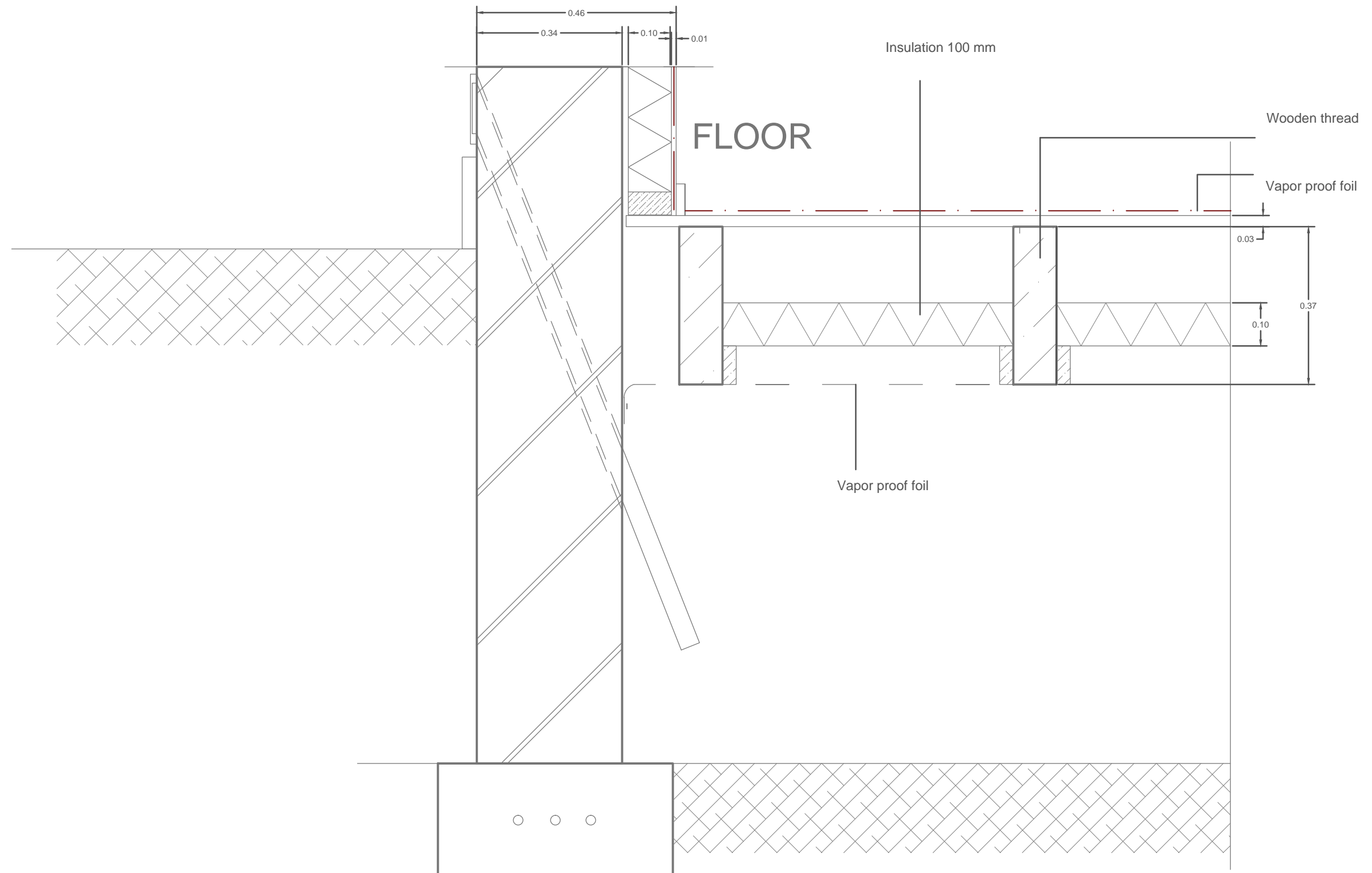



- Existing tiles
- Existing battens 10x50 mm
- Existing roof deck
- Thermal insulation 100 mm
- Vapour film
- Plasterboard
- Topcoats

- Existing wooden beams
- Vapour film
- Flameproof thermal insulation

Drawing: insulation directly  
against floor

|       |                           |  |
|-------|---------------------------|--|
|       | Roof insulation option B  | Date 20 Junio 2014   |
| E 1:5 | Vano Navarro, Carlos      | Format A3  |
| 2.5   | Energy Efficient Franeker |  Hanzehogeschool<br>Groningen<br>University of Applied Sciences |



|        |                                   |  |
|--------|-----------------------------------|--|
|        | Drawing: detail, floor insulation | Date 20 Junio 2014   |
| E 1:10 | Vano Navarro, Carlos              | Format A3  |
| 2.6    | Energy Efficient Franeker         |  Hanzehogeschool<br>Groningen<br>University of Applied Sciences |