

Lafarge roofproducts, “THEY EVEN LINKED THE TUMBLE DRYER IN THE RIGHT PLACE”!



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Keywords

CHANGES

The dutch constructionmarket changes from a providermarket to a buyermarket, which means that at constructionpart pitched roof all concerned parties should give a suitable answer to the wishes of the consumer.

Hereby should be considered effectiveness, efficiency, flexibility, functionality, workability and aesthetics, during the whole buildingprocess from design until the realization of the building.

The focus on the dutch roofmarket will therefore be more and more developed from productlevel to constructionpartlevel. Premanufacture and combining different functions in systems should be a base with productdevelopments.

The fact that we have to deal with more severe regulations; the constructionregulation (Bouwbesluit) is based upon the performanceconcept, and, not to forget the more strict ARBO(Labour)-regulations(security), will lead to the rise of constructionpartspecialists. In the case of the constructionpart roof we speak about the roofer.

The question that we, as an important producer of rooftiles and all relevant roofsystems, asked ourselves a few years ago is: do we limit ourselves to providing materials and systems or should we go further.

LIFESTYLE

The pitched roof is by the consumer being considered more and more as a lifestyle; the pitched roof creates living space and the consumer wants to fill in this living space himself, wants to make his own choices for his roof, the shape of the roof, the materials and the roofsystems. The consumer wants a free choice in finishing the inside as well as the outside, a free choice in divisioning the space, a free choice in whether or not a sun-energy system, a skylight, a dormer for satellite-aerials and so on. The consumer is prepared to pay for this freedom of choice.

The developer is strongly searching for the wishes of the consumer, he wants to be on the same wavelength with the consumers wishes, by delivering the additional value and by offering flexibility during the sale and the construction process.

The question is how to realize this promises in practice.

CONSTRUCTIONBUTTONS

The consequence of this developments to tune to the consumers wishes is that more parties are being involved by the design of the pitched roof. Next to the projectdeveloper are this for example the architect, the contractor, the roofer, the installer, the consumer et cetera.

By the increase of the amount of involved parties is the chance on constructionmistakes and communicationdisturbances higher.

A good example of where things can guaranteed go wrong is the eaves detail.



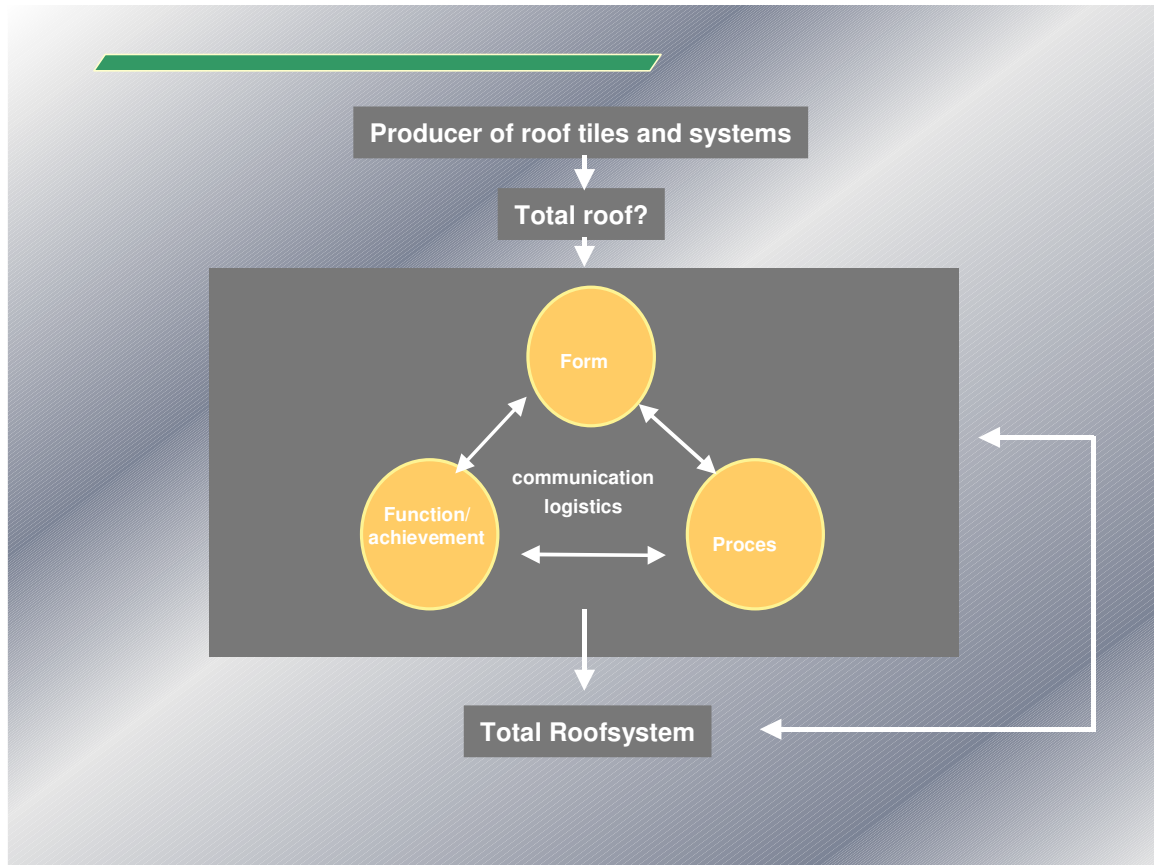
When you look at this, there are more then two hands full of disciplin involved: the designer, the tunnelcrew, the bricklayer the carpenter, the roofpanelsupplier, the rooftilesupplier, the roofer, the plumber etc.

The logistic process gets more complex also. If anything goes wrong, the costs of repair are sky-high.

THE CONSTRUCTIONPART ROOF

Most important is that parties are being involved in the design of the pitched roof in a far earlier stage.

To offer the complete constructionpart roof as a supplier of all roofsystems was only just a logical step for Lafarge. We developed the following formulas: Fixum as a formula for the new buildmarket and Fides for the renovationmarket. It is about a cooperation with certified roofers from the foundation Dakmeester. The concept co-maker is particularly in its place with new building.



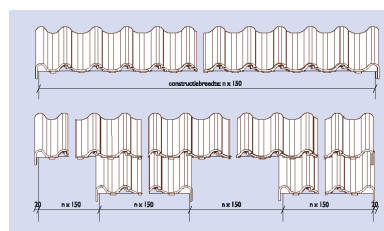
MODULARITY

When we want to create more flexibility, also during the building process, it would be a great step forward when the designer is developing with standardized systems, for example works with modular sizes.

Modular sizes can be easier understood, delivers a cost reduction where preparation time is concerned and gives the possibility to be flexible with adjustments, without the need for sawing and cutting. When developing roofsystems, manufacturers should take this into consideration.

A good example is the development of a new ceramic roof tile model by Lafarge dakproducten: the "Nieuwe Hollander".

Modular System



Measurements: n x 150 mm

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Modularity: to be divided into equal parts, fixed measurements, always right adjustments, perfect fit between different modules and building materials, higher efficiency, saves money and time, flexibility for future owners.

Our concrete tiles are all based on this modular system, ceramic tiles before the introduction of the Nieuwe Hollander did not yet use this quality.

INVOLVEMENT

Involvement in a very early stage when designing is a prerequisite, most certainly when dealing with somewhat more complex concepts/design.



An example of good preparation:

Basic design was a metal roof, an alternative was being searched for reasons of building physics and environmental considerations.

Working method: consultation between designer, the roofspecialists for pitched roofs, Lafarge Dakproducten and the processor, a certified roofer from the Dakmeester foundation. Picking the most suitable tile model for this kind of job, in cooperation with the Dakmeester. The set up of an experimental roof to determine the horizontal as well as the vertical radius.

Approval of the experimental roof. Consultations with the roofpanel supplier on behalf of the correct segmentation of the roof.

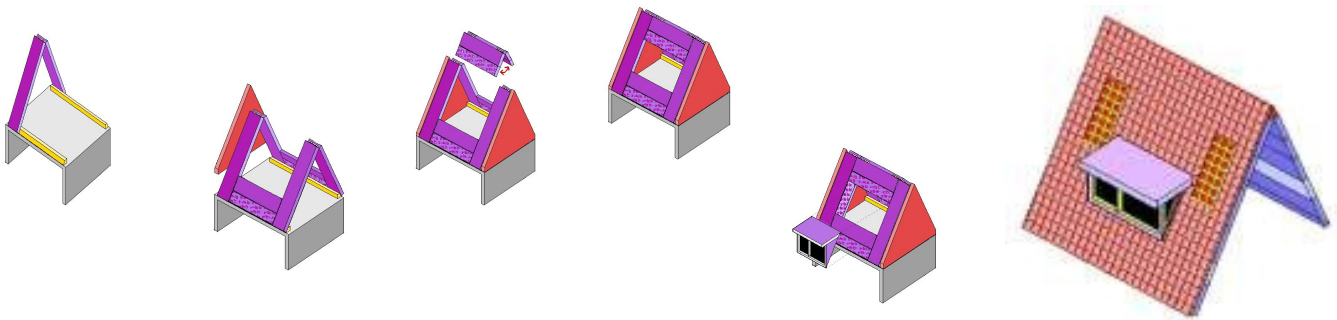


ROOFPANEL, PREFABRICATED

Our vision concerning roofpanels is that they should be designed in such a way that a 100% flexibility is possible both during the building phase as in inhabited state.

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Example of the systemconstruction:



The benefit of this systemconstruction is that sizes are standardized (modular sizes a multiple of 150 mm) it provides flexibility during the building phase, consumer: *“on second thought, we do want a dormer ...”* and as an extra benefit the inhabitant can remove an element and order an element complete with sky light or a dormer without any need for sawing or cutting. Isn't it easy?

Benefits of this system:

The complete constructionpart roof, to be contracted by one party, certified processing by the Dakmeester, everything into one hand, simple logistics, industrial quality and expertise, expertless installation, limited coordination between different disciplines, reduction of material, weather independent, roof ready in one day, all roofdetails canalized to the roofspecialist.

Cost reduction by standardization, less preparatory work in planning/production by mainly standardized components, flexible last minute changes possible, quality improvement possible by repeating character, unrestricted rearrangement of the roof, modular system guarantees adaptation afterwards.

LIBERTY OF CHOICE

Last but not least: if we want to offer the consumer freedom of choice, we will have to show him/her something as far as the roof of a home is concerned. In that case we have to develop tools to do the job (they can be found at the website of Lafarge Roofproducts: www.lafarge-dakproducten.nl, roofdesigner).



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