

## PositionPaper

### Our view on Quality

Many forms of quality exist and all of them need to be taken into account in order to ensure the best possible overall quality. That is why Van Welleman Villas® defined no less than eight different forms of quality, enabling us to measure and quantify the degree of quality. As such, we are able to enforce progress and continuous growth in excellence.

#### **Robustness**

Robustness refers to the ability to cope with exterior forces on structures. It represents the degree of resistance against deformation (also see White Papers “Organic Matrix Foundations”, “Elevator Backbone”, “High Tensile Strength Concrete Basements, ...”).



#### **Value retention**

Value refers to the investment leverage and/or value for money of your real estate project.



#### **Warranty**

The warranty reflects the degree of confidence a manufacturer has in its products. That is why Van Welleman Villas® provides 10 + 10 years (see WhitePaper “10 + 10 years Warranty” for more details).



#### **Integration**

Integration refers to the degree of integration of functionalities and services. An example is the influence of -for instance- the fire detection system on the behavior of the swimming pool or air exhaust system (also see White Papers “Safe Swimming Pools”, “Industrial Residential Automation”, “High Power Kitchen Counters”, ...).



#### **Modularity**

Modularity refers to the degree of “purpose-reallocation” of an environment in the house afterwards. It represents the flexibility to give any zone a new function, however, without having to heavily invest in construction works. An example could be the turning a sleeping room into a bathroom without having to touch the foundations or open the floors to access the plumbing.



#### **Wear**

Wear refers to the degree of resistance against use and deformation due to friction.



#### **Ecological**

It goes without words that reducing our ecological footprint is mandatory. That is why we select environment-friendly materials where possible, ...



#### **Continuity**

Continuity refers to the continuous availability of all residential functions and services. An example of this is a high MTBF (i.e. Mean Time Between Failures) leading to a low fail-rate. That is why we decided not to implement traditional domotics (e.g. not reliable enough, too error-prone and not assault-proof) but to opt for far more reliable industrial automation instead (also see White Papers “Industrial Residential Automation”, “High Power Kitchen Counters”, ...).



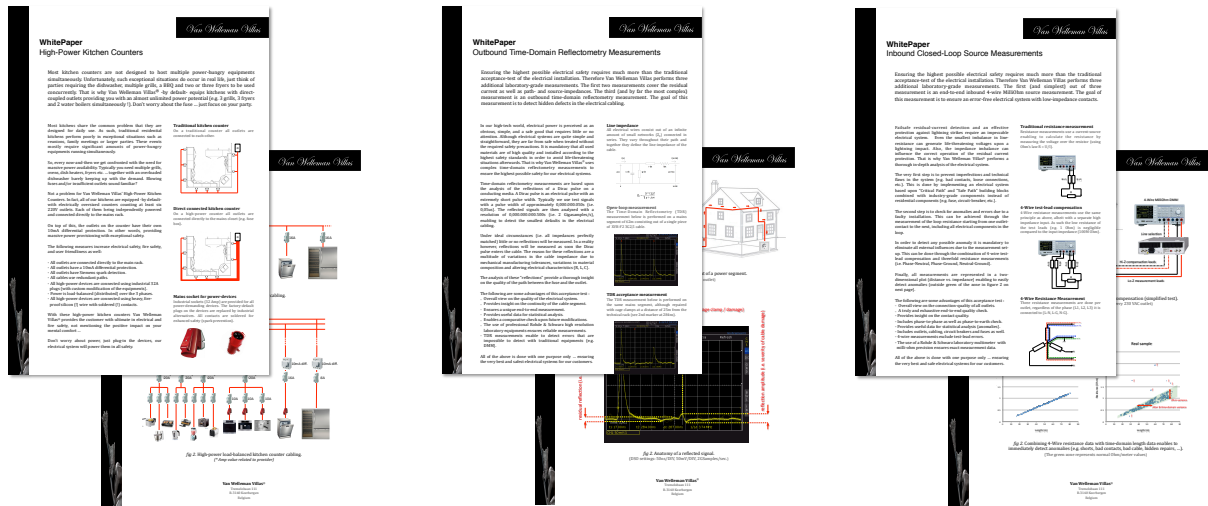


fig 1. Some of our quality-related White Papers.

(e.g. High-Power Kitchen Counters, Outbound Time Domain Reflectometry, Inbound Closed-Loop Source Measurements)

**Quality related “Abstracts”** (i.e. “what is so special about Van Welleman Villas?”)

- "Stability, endurance and maintenance"
- "Continuity and redundancy"
- "Acceptance tests"
- ...

**Quality related “White-Papers”** (i.e. “what is the technology behind it?”)

- “High-Power Kitchen Counters” (all the power your kitchen needs for big parties)
- “Inbound Closed-Loop Source Measurements” (end-to-end insurance, from source to outlet)
- “Outbound Time-Domain Reflectometry Measurements” (also detecting the hidden faults)
- “Organic Matrix Foundations” (for ultimate endurance)
- “Pressurized Cavity Draining” (always dry)
- “Thermo-Electrical Analysis” (keeping your systems cool and stable)
- “Residual Current Testing” (the most sensitive protection, everywhere)
- “Fault-Tolerant Power Provisioning” (never without power)
- “Elevator Backbone” (for maximum stability)
- “Fuel-Burner Protection” (keeping your fuel-injectors clean and efficient)
- “Modular Technical Ceiling” (for maximum future flexibility)
- “All Bearing Walls” (for a maximum stability and optimum acoustic insulation)
- “Coupled Cellar-walls” (for a maximum stability and protection against water infiltration)
- “RF block” (keeping your power clean from noise, spikes, and hackers)
- “Redundant Power Distribution” (reducing power outages)
- “Multi-stage System D” (earth-warmth recuperation without bacterias)
- “Pentagonal Heating” (combining the best of all worlds)
- ...

**Quality related “Case Studies”** (i.e. “what does this mean for me?”)

- “Large parties at home”
- “The winter is coming”
- “Dealing with long-period energy blackouts”
- “The neighborhood is flooded”
- “I want to turn my bedroom into a bathroom”
- ...