

Smart Building
Energy Efficiency
Multigenerational House
Sustainable Building

TRAIL OF INNOVATIVE IDEAS




AT
BAUZENTRUM
POING Bavaria's Largest
Homes Exhibition



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THINGS THAT MAKE YOUR HOME MORE LIVABLE. AND MORE INTELLIGENT.



Living with Innovations.

With new technologies and innovative solutions, your home becomes smarter—and thus also more comfortable.

Designed as a dedicated path through the Bauzentrum Poing, our Trail of Innovative Ideas broadens and deepens the portfolio of the model home exposition to include the topics new technologies and intelligent living.

What does the house of the future look like, and how can it be planned, built and lived in? Your visit to Bauzentrum Poing not only provides you with lots of inspiration, but also familiarizes you with the latest trends in new building and housing technologies.

Are you interested in smart buildings and multigenerational houses? Or looking into the topic of sustainable building and energy efficiency? Find the best answers and concrete examples right here.

Our doors are open to you—welcome.

Your Bauzentrum Team



1
Haas Fertighaus GmbH
Haas MH Poing 187
www.Haas-Fertighaus.de

Comfort, security and energy efficiency with intelligent home automation

Haas MH Poing 187 from Haas Fertighaus is a house that thinks independently. When it rains, the skylights close. While the occupants are deep in slumber, the bathroom warms up. If a window is opened, the heating turns itself down. When the owners get home after a hard day's work, they are welcomed by gentle music and individual lighting. Behind it all is the house's invisible butler: building automation—a special assistance system that offers comfort and energy efficiency. Security is provided by an intelligent presence simulation: If it is switched on, blinds moving up and down or variations in lighting simulate the presence of the house's occupants, thus acting as a deterrent to potential burglars.



2
Regnauer
Musterhaus Poing
www.regnauer.de

Smart Building. Naturally smart—down to the details

Your Vitalhouse is smart. Automatically, it creates the suitable lighting, the feel-good temperature, the right ambience. A mini-server bundles the control of blinds, lighting and heating, operated conventionally via switches or motion sensors. Remote control and visualization via iPhone, iPad or Web interface are designed in, as are automatic notifications by mail or SMS. Intelligent, networked systems mean comfort, safety and additional energy efficiency, such as windows closing automatically when it rains, or all consumer devices switching off with a click. In addition, Regnauer offers modern solar and photovoltaic systems as well as ventilation and venting systems with innovative home automation. Precisely tailored to your well-being.

LUXHAUS.

4
LUXHAUS
LUXHAUS | fine
www.luxhaus.de

Technology Concept

Intelligent interconnection and efficiency characterize the home automation technology of the plus energy house LUXHAUS | fine. Lighting, shading, and individual room controls are operated automatically by a BUS system. This enables optimal utilization of environmental energies in winter and prevents the building overheating in summer. Manual control is possible via an app as required; a central iPad has been installed for this purpose in the show home. It also allows operation and monitoring of all other building functions such as light engineering, window monitoring, lighting, ventilation and air humidification system, output of the PV system, as well as the multi-room audio system.



5
FischerHaus GmbH & Co. KG
Generation X
www.fischerhaus.de

The future has begun

Just imagine: It is a gloomy day outside, it's raining and that whole November mood can really get you down. In the "Generation X" house, just one touch on the central control unit creates the right ambient light for feeling good, while at the same time reducing the brightness in the children's room to "fall asleep minimum." The wonderful intelligent light effects produced by economical LEDs fit around the activities in your lifestyle and contribute to the stylish character of your house. This light—like everything else in the "Generation X"—can even be controlled when you are away from home. Using the "intellihome" system, the owner controls the house, for example via the Internet using a smartphone, just as if he was at home.



7
Haas Fertighaus GmbH
Haas MH Poing G 154
www.Haas-Fertighaus.de

Flexible bus technology

The Haas house G 154 illustrates the foresight of the company's philosophy. The house was built in 1999 and equipped back then with bus technology that was groundbreaking at the time. The house is wired to the bus system, enabling the integration of additional functions such as lighting or heating controls into the intelligent home automation system any time. We are showing an upgrade version of this technology in our 2nd model home on plot 1. An advantage of bus wiring that is not to be underestimated is the retrofitting capability. For example, when a self-contained, secondary suite is to be subsequently installed in the basement, the layout of the switch functions can be easily rearranged without needing to lay new cables.



13
Lehner Haus GmbH
CAD Atelier-München
www.lehner-haus.de

**Smart Homes—
Swabian quality**

For many years, Heidenheim-based Lehner Haus has been integrating bus systems into its customers' houses to control the sun-blinds, ventilation and venting as well as ensuring dependable house security. Lehner Haus plans and integrates modern electronics for smart homes, tailored entirely to your individual needs. Ideal home automation, such as efficient control of the underfloor heating or remote switching of lights. The Lehner Haus technical consultants plan for all your individual wishes and bring your new house up to state of the art in smart home technology—including efficient integration of photovoltaic and solar thermal energy solutions. Just talk to our specialists!



12
RENSCH-HAUS GMBH
Musterhaus Montana L
www.rensch-haus.com

**New living experience with
RENSCH-HAUS i-tec**



RENSCH-HAUS has stood for quality and innovative entrepreneurship since 1876. With this RENSCH-HAUS in-house development, a building automation system was created that enables flexibility and easy expandability of functions for the building owner, independent of vendor and possible even years after move-in. With this system, we can fully cover all topics from convenience & safety, building efficiency as well as integration of audio solutions. You set the limits! The system is controlled comfortably and intuitively via smartphone or tablet with an app, which we provide for iOS, Android or Windows. Experience the power of our system during a demonstration in our show home Montana L in Poing.



20
SCHWABENHAUS GmbH & Co. KG
Musterhaus München
www.schwabenhaus.de

**Smart homes are the trend
in prefab building**



On entering the house in the evening, the light switches on automatically, the shutters are already closed and the stereo system starts playing one's favorite music all by itself: These are just some of the features that smart homes offer their residents as a plus in comfort, safety and energy efficiency. Smart home automation is in vogue not only for digital natives, who have grown up with digital technologies, but also for seniors who want to make everyday life more convenient. To meet the wishes of customers, Schwabenhaus fits its prefabricated houses with smart home technologies.



21
Rötzer-Ziegel-Elementhaus GmbH
Kubus 200
www.roetzer-haus.de

Comfort, security and energy efficiency with intelligent home automation

Controlling complex technology with one finger! Your Gira home server makes life in your house comfortable for you. Who is ringing the doorbell? Your iPad will show you, and you can open with a simple click. You are on a business trip. Save energy in your absence and send a remote command to your intelligent house to provide you with your customary feel-good climate just in time for your arrival. You are on the road—there is a leak on the washing machine? You will be notified via SMS. A click on the control button and you can see: the intelligent system reduces energy consumption to a minimum. The smoke detector goes off? Your house clears the escape route, unlocks the front door, opens the blinds. For more protection, more safety, more comfort.



23
Baufritz GmbH & Co. KG
Alpenchic
www.baufritz.de

Germany's first bio-efficiency house with climate protection certificate and fuel cell heating!

With its "Alpenchic" show house, Baufriz sets an "architectural counterpoint" to the Bauhaus architecture. Instead of a cool Bauhaus-cube without frills this new, exceptional model home impressively exemplifies "the new modern cosiness!" Real and visible timber construction architecture in a contemporary interpretation combined with well-conceived design details and purposefully incorporated glass surfaces. As a health-certified eco-design house with advanced fuel cell heating and self-produced power utilization, it also offers comfort with a perceptibly healthy room climate! Absolutely worth experiencing!



25a/25b
Rubner Haus AG
25a Residenz "Alma"
25b Blockhaus "Clara"
www.haus.rubner.com

**The thinking house—
Intelligent home engineering**

The house that thinks independently! The control of lighting, shading, heating, ventilation and air conditioning are integral parts of a Rubner House. Imagine: It's November and rather cold for the season. You are coming home soaking-wet—but you are happy: Because via your cell phone, you have already set the room temperature to a pleasant 22 degrees, the roof windows, which you left open in the morning, have closed automatically due to the rain, your individual lighting is switched on and your choice of music is welcoming you in the living room. You feel good. And that is exactly what we want to achieve with our homes, what Rubner is committed to. We are there for you, talk to us.



26
Bien-Zenker GmbH
Concept-M München
www.bien-zenker.de

**Smart Home:
Your friend and helper**

The next generation of living has been realized: The Concept-M München is not only a feel-good home, it also helps its residents in everyday life. Built as a smart home, the Concept-M supports residents in saving energy (almost) automatically and offers them convenience and safety. The networking of home automation and domestic appliances with a control device makes living in a Concept-M house convenient and cozy: Rooms are ventilated automatically, windows and shutters closed and opened, the feel-good temperature is set, the security system switched on and, in hot weather, the shading is activated. The fact that open windows can be closed or the alarm system switched on also while you are away from home is even smarter!



28
 Huber & Sohn GmbH & Co. KG
 Huber-Holzmassivhaus
 www.huber-sohn.de

Intelligent building control system with touchscreen, iPad and iPhone

In addition to the control of lighting, shading systems, heating, ventilation, air-conditioning and more, the KNX bus offers the possibility of visualizing and displaying complex scenarios—such as the “Leave home” scenario, which switches all the lights off, closes the roller blinds and reduces the temperature. One click and the latest energy consumption is displayed.

Don't miss any more visitors at the front door—it is possible to integrate multiple IP cameras—for comfort and security.

Mobile access to the building control system has an intuitive interface for tablets and smartphones.



Genau mein Zuhause.

35
 HANSE HAUS GmbH & Co. KG
 Variant 25-192
 www.hanse-haus.de

Clever homes for more everyday comfort

The clever home automation in our Variant 25-192 is not only practicable, but facilitates everyday life in your new home. The system protects its residents from uninited guests and warns of fire or severe weather conditions. Thanks to the combination of special security modules developed in-house with general smart home modules, residents will be notified directly in case of an alarm. In addition, the smart home solution also helps saving energy. For example, it will automatically disconnect devices in stand-by mode from the power supply. At the same time, the smart home measures energy consumption and uncovers potential savings as well as power guzzlers. The intelligent home can be conveniently controlled using a laptop, tablet or smartphone.



36-37
 HUF HAUS GmbH & Co. KG
 HUF Haus ART 5
 www.huf-haus.de

Smart and simple control for more comfort and efficiency

We make your house even more intelligent—just ask us! With KNX technology, HUF HAUS embeds the building into a network of home appliances communicating with each other, enabling the activation of light, heat, fresh air or shading to regulate itself. KNX enables the automated interaction of different components, providing extra convenience and even more efficiency in your HUF house.

The smart home automation is almost infinitely expandable, customizable at any time and thus future-proof. It is possible to respond flexibly and fast to changing user requirements throughout the entire lifetime of the installation. Any extensions or modifications can be integrated into the system without any problems.



40/50
 OKAL Haus GmbH
 Okal Musterhaus Poing I / II
 www.okal.de

OKAL—better control thanks to myGEKKO 2.0

Each OKAL house is fitted as standard with myGEKKO 2.0. The intuitive home automation, among other things, helps to achieve optimum ambient temperature and ensures a pleasant room climate. Optionally, it can take control over the entire security of your home. Moreover, this technology ensures that residents always keep an eye on their power consumption and that energy is used efficiently and demand-optimized. As a result, costs can be reduced by 15 percent annually. myGEKKO 2.0 is like a personal assistant which home owners use to operate, control and optimize their OKAL house.



46
MVS Ziegelbau
Massivhaus München
www.ziegelbau.de

The intelligent home

The heart of our Munich “Massivhaus” is the innovative home control technology Busch-free@home by Busch-Jäger. This system controls the blinds, lighting, heating, ventilation, and door communication via a central control unit. All functions can be operated either via switch, panel or app.

And it gets even better: thanks to the networked systems, various scenarios can be defined, enabling all functions in the house to work automatically as needed. For example, the heating turns itself off when windows are open, the blinds are raised at dawn and all the lights turn off when the residents leave the home. The Busch-free@home system is easy to operate, future-proof, and adaptable at will.



47
Fertighaus WEISS GmbH
Musterhaus Poing
www.fertighaus-weiss.de

Programmed for comfort and efficiency

With our WEISS home control, we combine the functions of modern electrical appliances with an intelligent control system, ensuring the networking of numerous electrical functions. The system controls, for example lighting, blinds/shutters, heating, ventilation and venting system, safety engineering, media devices, garden irrigation, washing machine and much more. In your absence, lighting control in combination with shutter control can simulate an inhabited home; based on the data produced by an anemometer, awnings and blinds will be retracted and windows closed. The automation of various applications offers great energy savings potential, which is optimally unlocked by the WEISS home control system.



49
SchwörerHaus KG
Energieplus-Haus im modernen
Landhausstil
www.schworerer.de

Safety, comfort and efficiency in the Schwörer EnergyPlus House

The Schwörer “HomeOne” in the show home in Poing is a comfortable “smart home system” that integrates modern home entertainment and automatic home control on a joint user interface. Entertainment features (music, video, photo, TV) and home control functions (e.g. temperature, light, automatic shading, ventilation heating, energy storage) can be managed via touch screen and also represented on different home TVs. Connecting different room functions is possible. Via iPad or iPhone, residents have access to the control center of their home at any time, no matter where they happen to be. All devices are connected via Ethernet (KNX-BUS). The system can be expanded at will with any Wi-Fi-enabled devices.



51
Living Fertighaus GmbH
Solution Poing
www.livinghaus.de

Relaxed living

No stress despite a sudden cloudburst and no-one at home to close the windows in time! Living-Haus home owners stay relaxed, because thanks to house automation, the dormer windows close automatically and everything stays dry. The draw blinds too go up and survive the storm unscathed. And the smart home can do much more. For example, provide a cosy bathroom temperature in the morning or activate the alarm system at a click. The good feeling of being able to rely on one's house makes life in the Living house comfortable and stress-free. Another special feature of the house: Conceived as a modular prefab house, it offers home builders the possibility of turning their dreams of their own four walls into reality quite individually.



53
 AURORA Bauträger GmbH
 Musterhaus Poing
 www.aurorahaus.de

**Digital power—
 more comfort, more safety**

AURORA fits your home with the intelligent network system “digitalSTROM.” With digitalSTROM, you can network your electrical appliances in the new dream home using the existing power lines, thus achieving a new dimension of living comfort.

From individual lighting atmospheres to power savings and increased security, digitalSTROM covers a wide range of intelligent solutions. You use a computer, smartphone or tablet to control networked devices—easy and practical. With digitalSTROM, the “networked” home is no longer science fiction but modern convenient living.



- HOME MANAGEMENT
- LIVING COMFORT
- ENERGY MANAGEMENT
- INNOVATIVE TECHNOLOGY
- SECURITY
- FUTURE ORIENTATION



M2
 invivo haus GmbH
 Musterhaus München
 www.invivohaus.de

**Intelligent Home Automation
 for more fun living**

Open the door with a finger's push, the lights are only on exactly where you are, the heating turns itself down as soon as a window is opened, and a problem with the heating system reports itself by text message. And if you've left home and think you might have left the espresso machine switched on, just switch it off with your iPhone. Sounds like science fiction?

But it isn't—there are already many smart homes that make life more convenient, providing security and on top of that save energy. To do that, the individual components must be able to communicate with each other. This requires the installation of a bus system—a future-proof system that conforms to a worldwide standard.





1
Haas Fertighaus GmbH
Haas MH Poing 187
www.Haas-Fertighaus.de

KfW-40 as standard

Haas Haus offers the KfW Energy Efficiency House 40 standard at no extra cost*! This means building a KfW Efficiency House pays off in two ways: You are saving on heating costs thanks to optimal thermal insulation and the modern heating technology of your KfW house, and you benefit from the attractive funding program by Kreditanstalt für Wiederaufbau (KfW—reconstruction loan bank). The energetic quality of a new build is measured on the basis of annual primary energy consumption and transmission heat loss. For these indicators, the energy saving regulation (EnEV) defines maximum values which newly erected buildings must comply with. The smaller this number, the lower and better is the energy consumption of the prefab house, and the better the funding by KfW. *Condition: Implementation on foundation slab, according to latest construction and delivery terms. House model as per Haas house catalog 2016 and subject to suitable ground conditions.



2
Regnauer
Musterhaus Poing
www.regnauer.de

**Energy efficiency—
the healthy living solution:
a Regnauer vitality wall**

At the center of the concept: the unique vitality wall. The natural wood fiber insulation creates a comfortable ambience and a warm atmosphere, as can only be found in Regnauer Vitalhouses. Excellent heat storage capacity, hand-friendly surfaces, a natural room climate and summer heat protection characterize this biological alternative. Triple-glazed wood-aluminum windows manufactured in-house. Vitalhouse roof with waterproof sub-roof membrane. The perfect building skin. Thermal-bridge-free construction with certified airtightness and low energy consumption. Energy concepts eligible for various grants up to PlusEnergy house standard are available. You decide on the energy standard of your Vitalhouse.

4
LUXHAUS
LUXHAUS | fine
www.luxhaus.de

**Plus-energy, independent of
hot-water heating system**

With a direct electric heating system, a technical room the size of a closet is sufficient for the heating of a house. Also the installation is fairly easy. In contrast to a water-based heating system, “heating mats” are integrated into the floor here. The required annual heating power is supplied by a photovoltaic system. Yet the house remains connected to the main power supply system to feed in excess energy. The heating output is optimized via temperature monitoring (room, outdoor and screed temperature). An additional storage device buffers energy, which can be used in times of low yields. PV-direct electric water heating occurs via a tankless water heater.



5
FischerHaus GmbH & Co. KG
Generation X
www.fischerhaus.de

**Nature + Smartness =
EnergyPlus House**

Prefabricated houses have a highly heat-insulating building envelope, which ensures that the heat produced in the house is retained, resulting in a very low expenditure of energy required for heating. With an Efficiency House 40, whose standards the FischerHaus clearly meets, each house has a low heating requirement to provide residents with hot water and a cozy room temperature. This reduces utility costs to a minimum. By smartly combining natural resources, the “energy miracle” Generation X was built as an EnergyPlus House in collaboration with the Technical University Darmstadt.



7
Haas Fertighaus GmbH
Haas MH Poing G 154
www.Haas-Fertighaus.de

KfW-40 as standard

Haas Haus offers the KfW Energy Efficiency House 40 standard at no extra cost*! This means building a KfW Efficiency House pays off in two ways: You are saving on heating cost thanks to optimal thermal insulation and the modern heating technology of your KfW house, and you benefit from the attractive funding program by Kreditanstalt für Wiederaufbau (KfW—reconstruction loan bank). It grants a loan with attractive terms and an interesting repayment bonus—depending on whether you build a KfW Energy Efficiency House 55, 40, or even Plus-40. So you save ready cash on your prefab house!

*Condition: Implementation on foundation slab, according to latest construction and delivery terms. House model as per Haas house catalog 2016 and subject to suitable ground conditions.



8
STREIF Haus GmbH
Energiesparhaus München
www.streif.de

**Efficiency class KfW40
and 40Plus!**

Since April 2016, all STREIF houses already meet the requirements of the energy efficiency home class KfW40 according to the EnEV, with the fixtures and fittings included in the basic price. It means that your house is erected on a thermal foundation slab and fitted with innovative heating technology, consisting of the “Streif” fresh air heat-pump technology with ventilation and venting system with up to 95% heat recovery. A photovoltaic system on the roof is also included as standard. Your house can easily achieve the best efficiency level KfW40Plus with an expansion of the PV system and supplementing it with a battery storage. Benefit from historically low interest rates and a high repayment bonus by the KfW Bank!



9
Wolf System GmbH
Lumina
www.wolfhaus.de

**Building environmentally sound,
healthy and energy-conscious**

Arche Nova is a modern concept for an environmentally and energy-conscious way of building. There is a wealth of holistic, eco-conscious know-how underlying our Arche Nova idea: The Arche Nova wall is produced from sustainable, non-allergenic construction materials, which processes native wood in accordance with natural principles. In an Arche Nova House, you can enjoy a healthy, allergy-free living environment and ambient air without harmful substances. The insulating wood panels allow the house walls to breathe and create a natural moisture balance: the wood holds up to 20% of its own weight in moisture and returns it to the surroundings if the room air is too dry.



10
WeberHaus GmbH & Co. KG
WeberHaus Individual
www.weberhaus.de

WeberHaus PlusEnergy Concept

The WeberHaus PlusEnergy Concept is efficient and intelligent at the same time. The house produces more clean electricity than it needs. On the one hand, it features an energy management system which can turn on or off household appliances, the heating system, a battery, or also the public power supply. With a battery to store the solar power, residents become independent of public power supply and can enjoy lower operating costs. Another premise for energy-efficient building is a well-insulated building envelope. All Weber houses already meet the requirements for a KfW Efficiency House 55 as standard. Even the highest KfW energy standards can be reached with WeberHaus—thanks to the high insulating exterior wall ÖvoNatur Therm. More info at: www.weberhaus.de.



11
 DAVINCI HAUS GmbH & Co. KG
 Musterhaus Poing
 www.davinci-haus.de

**From a Classic to the
 PlusEnergy House**

Energy efficiency is a high priority at DAVINCI HAUS. Any DAVINCI HOUSE built according to planning meets the energy requirements of the KfW Efficiency House 55. At the same time, we wish to ensure that the filigree timber-frame structure remains fully visible both inside and outside. "Constructive clarity" is the leading principle. On request, a DAVINCI house can be outfitted as a PlusEnergy House already today, generating more energy than it consumes. For example, sun protection glazing with a U-value of 0.5 W/m²K is used. The special roof construction meets even the Passive House standard. Advanced heat pump systems sustainably lower the already low energy consumption.



Wohnen neu erleben!

12
 RENSCH-HAUS GmbH
 Musterhaus Montana L
 www.rensch-haus.com

**New living experience with
 innovative technology**

RENSCH-HAUS has always believed in saving energy and using natural resources responsibly. This is impressively reflected in the urban villa built in 2015, with its successful blend of contemporary look and technical finesse. RENSCH houses are generally built according to the Efficiency House 40 standard (EnEV 2016 = 60% better than reference buildings) with its vapor diffusion-open wall system thermo-around active. The stately mansion has a brine/water geothermal heat pump in combination with a controlled ventilation and venting system with heat recovery. Assisted by our in-house development, the RENSCH-Haus i-tec takes over the monitoring and—if necessary—even the remote control of your home in your absence, thus raising efficiency even further with cutting-edge building automation.



schwäbisch gut

13
 Lehner Haus GmbH
 CAD Atelier-München
 www.lehner-haus.de

**Efficiency Houses—
 Swabian quality**

Lehner Haus from Heidenheim builds highly energy-efficient prefabricated houses for every taste according to the motto "Schwäbisch gut." Many satisfied homeowners have built individually with Lehner and praise the extremely attractive price-performance ratio, the top quality and extremely fast and dependable construction. The tradesmen use state-of-the-art structural building techniques and modern high-end finishes. It enables the company to build efficiency Houses, low-energy and passive houses that meet the financing criteria of the German Reconstruction Credit Institute. With Lehner Haus, you can build family and architect-designed homes, villas or town houses according to your own taste.



16
 Keitel-Haus GmbH
 Haus München
 www.fertighaus-keitel.de

**Ecologically sound and
 sustainable energy concepts.**

Open and bright—this the impression which immediately arouses enthusiasm for the Keitel house in Munich. It is reflected in the entrance hall, the generous cooking and dining area, as well as in the light-flooded living quarters. Real eye-catchers are the carefully planned details: comfortably-sized bay windows, large windows at floor-level, and the airy, floating staircase leading to the top gallery. But it's not only these architectural eye-catchers that appeal in the exterior and interior design of a home. The energy concept too has been consistently implemented with a combination of heat pump and solar photovoltaic system, meeting the KfW 55 standard. All in all far more than just a solid family residence solution with a pleasant country house façade and several outdoor spaces.



17
Lechner Massivhaus GmbH
Family Variante II
www.lechner-massivhaus.info

The klimaPOR wall: winner of the Innovation Award of the Wohnsiegel Association

It goes without saying that high energy efficiency of the building shell comes as standard in the Lechner Massivhaus. Stability of value, healthy living and the indoor climate are also matters that need to be considered. The solid klimaPOR wall building system made of clay, a natural construction material, enables Lechner Massivhaus to achieve optimal results in these aspects too.

This was confirmed by the Innovation Award, which the Association Wohnsiegel—Das Europäische Markenhaus—presented to the low-noxious-substances klimaPOR wall in 2010. Moreover, it is guaranteed by certification with the seal of the ECO Institute that klimaPOR contributes to a healthy living climate.



20
SCHWABENHAUS GmbH & Co. KG
Musterhaus München
www.schwabenhaus.de

**Customary at SCHWABENHAUS
—KfW Efficiency House 55**



Since 2016, more stringent provisions of the energy conservation ordinance (EnEV) have applied, calling for a further, significant reduction in energy consumption for new builds. The Schwabenhaus prefabricated housing manufacturer already satisfies these criteria as standard. Without alterations, its structural components also comply with the specifications of the EnEV 2016. Thanks to geothermal heating and controlled ventilation/ventilation, Schwabenhaus homes meet the required, 25% lower annual primary energy consumption also for the facilities engineering system. Along with the energy requirements, the funding eligibility criteria of the KfW Bank have changed too. Schwabenhaus is meeting these requirements with increased standards, so that its organic houses are now classified as KfW Efficiency Houses 55 and continue to be eligible for funding.



21
Rötzer-Ziegel-Elementhaus GmbH
Cubus München
www.roetzerziegelhaus.de

Air-brick ceiling for comfortable heating and cooling

The highlight in solid buildings: our air-brick ceiling enables you to enjoy balanced radiant heat in winter and pleasant cooling in summer. A sophisticated and large-surface overhead ceiling heating system, based on a simple design, keeps you warm. Cold air or draughts are a thing of the past, because the heat moves exclusively in the form of radiation at the speed of light. So you have the subjective feeling that the room air is warmer. While living with equivalent comfort level, you can save as much as 18% of heating energy. Combine modern solar thermal control with your solid brick ceiling. You save resources and experience the comfort of modern heating and cooling technology. Individual room control and fast response time ensure comfort.



23
Baufritz GmbH & Co. KG
Alpenchic
www.baufritz.de

Sustainable and climate-conserving Eco-Efficiency House

Networked energy technologies make you virtually self-sufficient in energy.

A sophisticated energy concept makes the Baufritz show house “Alpine chic” a nearly energy self-sufficient house. The four components of photovoltaics, fuel cell, wind turbine power and energy storage work perfectly hand in hand. The electricity generated by the house is largely used to power the house itself. Any surplus can be used to power your e-bike, or be fed into the mains supply, which can also serve to top up the energy supply if there is a peak requirement. The heart of the whole system is a fuel cell heater that sets a new benchmark in terms of modern energy technology. And “Alpine Chic” is the first home using the compact heater, which has a floor surface of only half a square meter.



24
 Das Bodenseehaus
 Landhaus Exklusiv
www.bodenseehaus.de

**Holistic Building with
 Energy Efficiency**

At Bodenseehaus, we consider building from a holistic perspective.

A healthy living environment and excellent thermal insulation are very closely linked. Our breathable wall and roof constructions achieve U-values of up to 0.129 W/m²K, and in conjunction with an additional insulating layer, even up to 0.104 W/m²K. We also use highly efficient heat pumps, to extract the thermal energy from the environment, such as from the outside air or from the ground. This is how we create an individual, durable and future-proof Energy Efficiency House for our building owners.

RUBNER
 haus

25a/25b
 Rubner Haus AG
 25a Residenz "Alma"
 25b Blockhaus "Clara"
www.haus.rubner.com

A passion for wood

Rubner Haus is a pioneer in energy-efficient timber construction. Our houses are made of ecologically valuable materials such as wood, wood softboard and cork that come from nature and are produced with little primary energy. Our passion is wood, a universally available raw material, whose production only requires water, sun and air. So it is renewable, conserves the environment and is known for its longevity and its good thermal insulation properties. Rubner houses are 100% recyclable, leaving behind no rubble and ruins. So the natural cycle is less disrupted and the human environmental footprint reduced. That is what Rubner houses stand for, so why not talk to us about it?



27
 Danhaus GmbH
 Solitude
www.danhaus.de

**Optionally a KfW55, 40 or 40 Plus
 Efficiency House**

Danhaus has set the standard for construction of highly efficient energy-saving homes. For wall construction, we have developed a special polar thermal protection, which is supplied as standard. This extreme insulation technology, tried and tested in the Arctic Circle, in combination with triple glazing and high-performance heat pump/ventilation systems makes every Danhaus into an extremely frugal 1-liter-house! and a KfW Efficiency House eligible for subsidy—with a healthy, comfortable climate. The Scandinavian architecture, the innovative energy-saving concept, the biologically and ecologically sound construction method with natural materials characterize every Danhaus, whether it's a bungalow, villa or town house with attic, with stone veneer, plaster or wood facade.



28
 Huber & Sohn GmbH & Co. KG
 Huber-Holzmassivhaus
www.huber-sohn.de

**Naturally made of wood,
 for a special living experience**

Sustainability and energy-efficiency starts with the choice of the wall structure.

The Huber solid timber wall—made of wood through and through—not only has high thermal insulation values, but it also provides a pleasant feeling even during high summer temperatures.

Due to its highly insulating building shell made of natural renewable insulation materials combined with advanced, resource-saving building technology, we offer our clients energy-efficient homes of the future, from the KfW-house eligible for subsidy via the Passive House to the EnergyPlus House.



31
FischerHaus GmbH & Co. KG
Jasmin
www.fischerhaus.de

**KfW Efficiency House 40
as standard**

With regard to the building shell, FischerHaus applies the polar bear strategy: Losing as little energy as possible to the environment, and using as much energy as possible from the environment. This is made possible thanks to the multi-layer wood frame construction for increased stability, excellent soundproofing, and a very low heat transfer coefficient. Like all Fischer houses, the show home is also a KfW Efficiency House 40. As such, the house needs very little heating to provide residents with hot water and create a pleasant room temperature. This reduces utility costs to a minimum: The average ultimate energy requirement of a Fischer Efficiency House amounts to approx. 12 kWh/m²a, placing it in the A+ range of the energy efficiency classification.



32/41
KAMPA GmbH, www.kampa.de
Musterhaus Poing-Grub in Fachwerkbauweise/
Musterhaus Poing-Grub

**KAMPA Efficiency House 40 Plus
as a PlusEnergy house with
PV system and energy storage as
standard.**

The “real” PlusEnergy house with added value—at KAMPA as standard. KAMPA was the first prefab house manufacturer to establish the Efficiency House 40 with PlusEnergy as a standard many years ago, resulting in a valuable wealth of experience from thousands of implemented projects, combined with an established routine and dependability. The reason we talk of “real” PlusEnergy is because the perfectly insulated building envelope in combination with renewable power generation, efficient lithium-ion storage technology and intelligent energy management are designed to fully cover the entire energy requirement for heating, hot water, home appliances and lighting—that is, real PlusEnergy!



34
Keilhofer GmbH
Stadtvilla im Gründerzeit-Stil
www.keilhofer.com

**Energy concept of the future,
combined with the wall of the
future**

A fuel cell heating system with non-polluting, “cold” combustion in the fuel cell and electricity generation as a by-product, combined with a highly insulating solid wood wall (U-value 0.16) and extremely efficient on-roof insulation (above the rafters). We think ahead!



Genau mein Zuhause.

35
HANSE HAUS GmbH & Co. KG
Variant 25-192
www.hanse-haus.de

**Our wall structures: KfW 40-plus
building envelope as standard**

To keep heat loss through the building envelope to a minimum, HANSE HAUS relies on an all-around thermal insulation, as in the case of our Variant 25-192. Besides individual planning and various equipment options, HANSE HAUS offers several choices also in the implementation of innovative home automation and energy-saving technologies. The building envelope of a HANSE HAUS meets the requirements of a KfW Efficiency House 40 plus already as standard. Naturally, HANSE HAUS will also realize your KfW Efficiency House 55/40, Passive House or PlusEnergy house as desired, creating a unique and distinctive home customized to the home-owner’s visions, with a built-in future.



36–37
 HUF HAUS GmbH & Co. KG
 HUF Haus ART 5
www.huf-haus.de

**The harmony between
 transparent architecture
 and energy efficiency**

The innovative HUF HAUS timber-frame architecture fascinates at first glance. The expressive outward appearance is coined by the visible timber frame with its clear structures, as well as by the generous transparency, building a visual bridge to the surrounding nature and creating the unique HUF house living experience. At the same time, owing to the intelligent design principle with highly effective insulation, a level of energy efficiency has been achieved that is revolutionary for framework construction. That is why each new HUF Haus illustrated in the current HUF HAUS catalog and built according to plan specifications, meets the criteria of the KfW Efficiency House 55 classification already in its basic configuration—at no extra charge.

OKAL
 zuhause MIT
 SYSTEM

40/50
 OKAL Haus GmbH
 Okal Musterhaus Poing I/II
www.okal.de

**OKAL—
 Advanced home power station**

With its state-of-the-art home-energy system, OKAL offers home builders the opportunity to become more independent of rising electricity prices. The home power station can be seen for example in the new model home here in Poing in Upper Bavaria. Photovoltaic elements on the roof convert solar energy into electricity, which is stored in high capacity batteries. The system is based on efficient lithium-ion technology. This makes the power station smaller and quieter than previous systems. The electricity produced can also be used by the air-water-heat pump, another energy-saving feature of the house. As a result, the house is almost fully self-sufficient. OKAL makes sustainable energy affordable for everyone.



46
 MVS Ziegelbau
 Massivhaus München
www.ziegelbau.de

Solid. Versatile. Strong.

No matter whether you want to make your future brick house your home, rent it out or sell it later: energy consumption will always play an essential role. A house needs electricity and heat, which in view of rising energy prices will increasingly be a major cost factor. To reduce the energy consumption of your Massivhaus to a minimum, we recommend building with our Thermopor TV-7 clay block brick. This ensures a pleasant, cozy climate in your home and perfectly satisfies all energy efficiency requirements (KfW Efficiency House 55, 40 and 40 plus). The low thermal conductivity of our brick guarantees the highest heat retention, low energy consumption and eliminates the need for additional outer wall insulation.



47
 Fertighaus WEISS GmbH
 Musterhaus Poing
www.fertighaus-weiss.de

**Competence in resource-
 efficient energy concepts**

WEISS PlusEnergy houses are technical and innovative pioneers in the area of resource-efficient energy solutions, setting new standards thanks to smart energy efficiency, advanced home automation, contemporary architecture and family-friendly living comfort. The WEISS home control configuration is adaptable to the individual requirements of homebuilders. With an additional data line, it links all devices and systems to a networked system, which controls and regulates a wide range of features such as lighting, blinds/shutters, heating, ventilation and venting system, safety engineering, media devices, garden irrigation, washing machine and much more.



48
FingerHaus GmbH
Haus FINO
www.fingerhaus.de

Mediterranean ambience with special living comfort

FINO (Italian for “fine and noble”) lives up to its name: Spacious living with a lot of openness and comfort in a welcoming environment. Two bay windows, large window areas—even on the top floor—the high knee wall and warm, almost Mediterranean colors give this house a special look. The FINO model house attests to the high standards of environmental and cost-saving techniques at FingerHaus. Geothermal heat pump including cooling function and under-floor heating create a comfortable indoor climate throughout the year without oil and gas bills. FingerHaus deliberately chooses pioneering domestic engineering concepts that meet all the requirements for environmentally friendly construction as KfW houses already in the planning phase.



49
SchwörerHaus KG
Energieplus-Haus im modernen Landhausstil
www.schworerer.de

Safety, comfort and efficiency in a Schwörer EnergyPlus House

While homes used to be seen as energy consumers, with the latest technologies they may become energy producers. The Schwörer-components: a highly insulated building shell, in combination with the thermal resistance basement ceiling and quality passive house windows. The extremely low power requirement is supplied by the innovative Schwörer fresh-air heater with controlled ventilation with heat recovery. The energy surplus generated by the photovoltaic system can charge the batteries of an electric car, for example. This benefits the environment in two ways: CO₂-free power generation and zero-emission transport.



51
Living Fertighaus GmbH
Solution Poing
www.livinghaus.de

Always the right temperature

Nice when it's cold outside but warm and cozy inside. Or when another heat record is broken in summer, while the temperature inside the house remains pleasantly cool. Not a problem in the show home of Living Haus! Because the all-around heat insulation without thermal bridges or heat loss provides maximum comfort temperatures. Plus it requires less energy resulting in lower cost—without sacrificing comfort. What makes this show home special is that it is configured as a modular prefab house, providing homebuilders the opportunity to design the interior completely according to their own ideas and taste. Living Haus—energy efficiency and creativity under one roof.



53
AURORA Bauträger GmbH
Musterhaus Poing
www.aurorahaus.de

Build solidly—cut energy costs

Environmentally friendly building means thinking about the future maintenance costs and your energy consumption. Therefore, we always strive for low-energy construction with alternative energy technologies.

An energy-efficient AURORA-house helps every day to cut energy costs while reducing CO₂ emissions. And: the Kreditanstalt für Wiederaufbau rewards the construction of highly energy-efficient homes with attractive financing programs at low interest rates. And the better the energy quality of a house, the greater the future value of your investment.



56
ELK Fertighaus GmbH
ELK 189 Effizienzhaus 40
www.elk-fertighaus.de

We build your home for life!

Every ELK Efficiency House 40 has a high standard of comfort and minimum energy consumption, because they epitomize a perfect match of architecture, insulation and technology. It goes without saying that experienced prefabricated home supplier ELK leaves nothing to be desired in the design and spatial concept.

The ELK 189 Efficiency House 40, which is shown at the Bauzentrum in Poing, is just one of the many houses that ELK offers. Because ELK, one of the leading prefabricated home companies in Europe, has stood for tremendous product diversity and innovative, energy-efficient house technology for decades. ELK builds homes for life.



M5
Drevo Haus GmbH
Energiesparhäuser
www.drevohaus.de

**Individual—ecological—
high-efficiency homes**

Anyone deciding to build a house these days is deciding at the same time what energy balance will be left to future generations—and what costs are associated with that in the short and long term. Tailored to your individual needs and with a keen concern for energy efficiency, we offer a range of options. Today, with a perfectly insulated building envelope and efficient heating systems, there are excellent opportunities to save energy and use renewable energy sources. Nature provides us with warmth, wind and water free of charge.

Drevo homes are eligible for financing as KfW Efficiency Houses due to their very well insulated building envelope and the equipment package included as standard.



M6
Andreas Systemhaus
Bungalow Poing
www.andreas-systemhaus.de

"Saving with solar energy"

Besides the building shell, an important component of the ANDREAS Systemhaus is the energy-saving heating and ventilation system. Or a photovoltaic system designed for your home with expandable battery storage and a ventilation heat pump with user-friendly control unit ("man, that's really simple"). We provide wood stud structures with wood fiber insulation, solid building brick with integrated insulant made of renewable raw materials, or "Habitat," the low-priced sandwich system without foundation slab mounted on screw-in foundations. No matter whether a KfW 55, Passive or PlusEnergy house: we at ANDREAS Systemhaus are always a step ahead. Stainless steel carports with transparent solar modules, patio roofs, sun and rain protection, wood or ceramic terrace systems, fences, gates and gabions round off our housing portfolio.

ENERGY EFFICIENCY

- SUSTAINABILITY
- ECOLOGY
- ENERGY CONSERVATION
- ENVIRONMENT-FRIENDLINESS
- COST EFFECTIVENESS
- RESOURCE CONSERVATION
- STABILITY OF VALUE





1
Haas Fertighaus GmbH
Haas MH Poing 187
www.Haas-Fertighaus.de

**Additional revenue
from rental**

Living space has become an expensive and scarce resource, the reason being primarily the price of coveted building lots. To exploit the space of the building lot to a maximum, many homebuilders integrate a secondary suite or granny flat. In the MH Poing 187, what looks like a garage from the outside is used as an architectural office, not wasting a single square meter of living space. Alternatively, it could be turned into a secondary suite and generate additional rental income or be used later as a separate apartment for grown-up children or other family members. Also, an office on the ground floor can optionally be used as a guest-room. The MH Poing 187 offers sufficient space to accommodate several generations together under one roof.



5
FischerHaus GmbH & Co. KG
Generation X
www.fischerhaus.de

**Factor X-Living concepts
for double happiness.**

Many building owners have historically catered for the “here and now”: They built spaces with the necessary children’s rooms, realizing years after the children left, that the layout of the house in no way fits their lifestyle anymore. The “Generation X” is designed as a multigenerational home, and as such, it represents a first in the model homes park. Generous living space on two floors provides abundant living amenities. Built-in under the roof terrace is a disabled-friendly apartment for one or two users covering an area of approximately 50 m². It allows the older generation to participate in the life of the “young,” without abandoning their own independence.



7
Haas Fertighaus GmbH
Haas MH Poing G 154
www.Haas-Fertighaus.de

**A basement can be
living space.**

A functional use of space characterizes economic architecture. That is why the basement of the Haas house G159 has been fully insulated and can thus be used as living space. Rooms in the house are used as offices. The actual idea of the homebuilder is to create a secondary suite in the basement. This house clearly illustrates that with excavation, good lighting conditions can be created in the basement, even on a flat property. The house above ground can be inhabited by a single family, with a separate apartment in the basement for children or lodgers, accessible via an external staircase. These extra apartments are usually eligible for state funding. Ask for more information from our Haas consultant in house G154 on lot 7!



20
SCHWABENHAUS GmbH & Co. KG
Musterhaus München
www.schwabenhaus.de

**Multigenerational houses
for living together by
Schwabenhaus**



In the past, it was a given that several generations lived under one roof. However, professional life today requires a maximum of flexibility from the workforce. For young people, it is becoming increasingly difficult to reconcile family and working life. This is one of the reasons that there is a growing desire for living together under one roof, like traditional extended families. But to ensure the harmonious cohabitation of generations, all parties must have sufficient privacy. The prefab house manufacturer Schwabenhaus in Heringen has the right planning ideas suitable for multigenerational houses in its portfolio, supporting homebuilders wishing to realize their desire for communal living.



24

Das Bodenseehaus
Landhaus Exklusiv
www.bodenseehaus.de

The special generational home
Individuality through diversity

This is no contradiction, because it is the great variety of possibilities of the Bodenseehaus that can help you plan and build your dream home on your own terms. You lead the way: e.g. child-friendly, flexible and open, single-family or multi-family home. That means: even when the children have grown up and started their own family, they can continue to live in the versatile Bodenseehaus—because from the outset, your house is designed so that it adapts to the occupants. Planning ahead means living in accordance with your needs.

RUBNER
haus

25a/25b

Rubner Haus AG
25a Residenz "Alma"
25b Blockhaus "Clara"
www.haus.rubner.com

Longevity and individuality

For 50 years, we have always taken our environmental responsibility and the individual wishes of our customers most seriously. With a Rubner house, you are not just building for yourself, but for the next generation too. Wood is a building material that stands for longevity, a material that will still meet stringent requirements even after many years. Due to the innumerable requirements that are made of a home these days, the wish for flexibility is an ever-growing need. The house must be adaptable. This is exactly what we stand for, to plan your house individually and turn it into a reality. We build homes for every situation in life. It's what we are here for—so talk to us about it.



27

Danhaus—The 1-liter-house!
Solitude
www.danhaus.de

Well provided for:
Make two from one Danhaus.

Owning your home is one of the safest investments for old age. The combination of a home plus secondary suite offers major advantages, whether as a multi-generational house, as an office for a self-employed business or rental to a tenant. Right from the start of construction, costs can be offset against taxes that are not tax-deductible for housing that is just owner-occupied. Plus: income from rent can finance a part of the building costs and provide a nice extra income later. That doesn't mean you have to make concessions in terms of charm and individual style on a Danhaus with secondary suite, because our "two-in-one concept" ideally integrates a second apartment in the popular Nordic architectural style. We will be happy to show you various design schemes in the show home.



28

Huber & Sohn GmbH & Co. KG
Huber-Holzmassivhaus
www.huber-sohn.de

Adaptable diversity for the future

The requirements of a house today are as diverse as the lifestyles of the people living in it. The site itself imposes further requirements. Off-the-shelf concepts are no longer any use. Whether two or three generations of a family are living here, several elderly people as a community or space for very different concepts, a good home must be one thing above all else: adaptable. Your home can be given this adaptability through our individual planning.

To ensure that your home is fit for the future, the building stock must continue to meet high requirements even after decades.

That is what Huber & Sohn houses stand for—come and talk to us about it.



54
allkauf haus GmbH
Prestige 2V2
www.allkauf.de

High-quality prefabs fulfill the housing wishes of all generations

With its premium house series "Generation," allkauf presents individual living solutions that harmoniously unite all generations of a family under one roof. The modular prefab house specialist responds to the wishes and needs of all future residents. Whether a two- or single-family home with secondary suite: The floor plans of all houses in this series have been designed so that two families can comfortably live under one roof. When two parties come together, the costs for a new build become manageable and often more affordable than you think. More on the flexible generation house concept at www.allkauf.de.



WAHE_pixelo.de

MULTIGENERATIONAL HOUSE

- COMMUNITY
- PROTECTION
- FLEXIBILITY
- INDIVIDUALITY
- HOUSING OF THE FUTURE
- NO BARRIERS



CHILDCARE at Bauzentrum Poing



Childcare is available only on Sundays when lectures, counseling sessions and tours are taking place. Registration is not required. Childcare is provided by a professional childcare service from 10:00 to 17:00 in the technology pavilion.



**BAUZENTRUM
POING**

Bavaria's Largest Homes Exhibition



1
Haas Fertighaus GmbH
Haas MH Poing 187
www.Haas-Fertighaus.de

**Building sustainably with
Haas Haus**

Sustainability is a point of honor with Haas Haus. That is why we make sure to conserve resources throughout the entire planning and production process of your house. And why we build our prefab houses with timber from sustainably managed forests (PEFC standard). An important criterion for sustainable building is the property's energy efficiency. For Haas Haus, energy efficiency is not optional but standard: Thanks to their energy-saving structural design, Haas prefab houses fall below the legally specified values of the energy conservation ordinance (EnEV). This is primarily due to our high-quality "Thermo-Protect Premium-Plus wall system." Thanks to highly insulated walls and roofs, every Haas house is a low-energy house as standard, with a U-value of 0.10 W/m²K (walls).



2
Regnauer
Musterhaus Poing
www.regnauer.de

**Sustainable building—
Building for the world of
tomorrow with Regnauer.**

The climate change is mostly the result of the human-induced greenhouse effect. We should expect to deal with more frequent extreme weather events and rising energy cost. It is in our hands: Buildings with optimized energy behavior use little or no energy at all, conserve the environment and result in lower cost. For our Regnauer Vitalhaus, we use natural, certified materials, such as timber from sustainable forestry. It stands for living in a healthy room climate and low energy requirement. Also their longevity and the possibility of adapting the living space to new life situations carry the idea of sustainable building forward.

LUXHAUS.

4
LUXHAUS
LUXHAUS | fine
www.luxhaus.de

**Feel-good climate
all year round**

LUXHAUS stands for year-round feel-good climate. Residents of the house feel well when everything is just right—temperature, light, the humidity as well as the oxygen content of the air. This is based on the diffusion-open wall structure, keeping out the cold in winter and the heat in summer. The LUXHAUS-typical, modern architecture with large-sized windows allows plenty of natural light into the house. Air humidity is individually adjustable with the Hygrobox, and the controlled ventilation and venting always provides fresh air. And all of this with a good feeling, because what material could be more sustainable than wood, the main component of every LUXHAUS. What's more, wood always provides a cozy atmosphere, even if you cannot see it.



5
FischerHaus GmbH & Co. KG
Generation X
www.fischerhaus.de

Healthy living and sustainability

The essential material is wood. Healthy, sustainable, long-lasting, reliable, natural, regional, and yet a material that transforms imagination into solid form. It offers homebuilders ample scope in the elaboration and realization of their personal dream house. Combined with clever science and cutting-edge home automation, it results in energy efficiency, noise protection and a natural living experience. Owing not least to the positive properties of the raw materials and the quality of the installed components such as windows, roof and walls, the house Generation X is able to produce more energy than the house and residents consume.



7
Haas Fertighaus GmbH
Haas MH Poing G 154
www.Haas-Fertighaus.de

**Building sustainably with
Haas Haus**

Sustainability is a point of honor with Haas Haus. That is why we make sure to conserve resources throughout the entire planning and production process of your house. For this reason, we rely on renewable raw materials and manufacture our prefabricated houses from timber, and why this timber is sourced from sustainably managed forests (PEFC standard). For us, building sustainably also means that for heating systems, we bank on regenerative energies and pursue highest standards for thermal insulation. As a result, our prefabricated houses customarily feature a wall structure with a U-value of 0.10 W/m²K. Ecological and economic building perfectly complementing each other!

WeberHaus
Die Zukunft leben

10
WeberHaus GmbH & Co. KG
WeberHaus Individual
www.weberhaus.de

WeberHaus awarded

In the context of the congress "Still saving or already building" at BAU 2015 in Munich, Undersecretary Florian Pronold from the Federal Ministry of the Environment, Nature Conservation, Building and Nuclear Safety (BMUB), conferred on WeberHaus the certificate for participation in the research project "Sustainability Assessment of Residential Buildings" in the category "New builds, single- to three-family homes." WeberHaus Technical Managing Director and Plant Manager of the Wenden factory, Andreas Bayer, represented the Baden energy pioneer and was very pleased about the rating 1.5 (excellent). More information: www.weberhaus.de



16
Keitel-Haus GmbH
Haus München
www.fertighaus-keitel.de

**Ecological and high-quality
insulation with the best heat
protection value.**

Keitel house recommends the ecological insulant THERMO JUTE100 (burlap), a natural product with the best heat protection value of all insulation materials currently available on the market. THERMO JUTE 100 is not only an ideal energy saver in winter, but also an excellent heat protection in summer. The 24-cm thick, heat-storing material retains heat for up to 11 hours. For comparison: to obtain the same heat protection, one would have to install at least 50 cm of mineral insulation. The premium insulating material ensures a cozy living climate, it is mildew-resistant, free of harmful substances, and carries the natureplus® seal. Burlap is an excellent, renewable, moisture-regulating insulant with a positive CO₂ balance.

SCHWABENHAUS
einfach clever Bio bauen!



20
SCHWABENHAUS GmbH & Co. KG
Musterhaus München
www.schwabenhaus.de

**Building with wood:
Modern, sustainable and healthy**

Wood is one of the oldest and most natural building materials in human history. It is renewable and binds large quantities of CO₂, which makes it an extremely sustainable building material. But the material has even more to offer: with its natural regulation of indoor climate, it contributes to healthier living. Coupled with ecological insulating materials and advanced home and heating technology, it is also financially rewarding: home-builders who opt for a timber-frame prefab house with Efficiency House standard can obtain state-funding from the KfW bank. The Hessian prefabricated home manufacturer Schwabenhaus uses softwoods for its energy-saving bio-houses, sourced from controlled, local forestry.



26

Bien-Zenker GmbH
 Concept-M München
www.bien-zenker.de

**Hand in hand:
 sustainability and design**

The Concept-M München proves it: Sustainability and design complement each other to perfection. There is a good reason the show home was awarded the Platinum Sustainability Seal by the German Sustainable Building Council. It is due to the high quality standard, which allows only select and tested brand products to be installed in the house. How attractive sustainability can be is visible already on the outside of the show home. The glass elements perfectly blend with the sand-colored natural stone of the façade, highlighting the extraordinary architecture of the house. Inside, the quality-fitted rooms are evidence that what is good can be beautiful too.



28

Huber & Sohn GmbH & Co. KG
 Huber-Holzmassivhaus
www.huber-sohn.de

**Sustainable building with a
 Huber solid timber wall**

Huber & Sohn is a PEFC-certified business building only with timber from sustainably managed, local forests. The Huber solid timber wall has a particularly high wood content, unlike classic timber-frame construction. With the Huber solid timber wall, we come quite a bit closer to the goal of sustainable building. At the end of their service life, our buildings can be converted easily and without much effort. Wooden buildings can last several hundred years. Residents can still inhabit the home in fifty or hundred years, retrofitting the home according to technical requirements. Future generations will benefit from this sustainable construction.



32/41

KAMPA GmbH, www.kampa.de
 Musterhaus Poing-Grub in Fachwerkbauweise / Musterhaus Poing-Grub

**KAMPA Efficiency House 40 Plus
 as a PlusEnergy house with
 PV system and energy storage
 as standard.**

The “real” PlusEnergy house with added value—at KAMPA as standard. KAMPA was the first prefab house manufacturer to establish the Efficiency House 40 with PlusEnergy as a standard many years ago, resulting in a valuable wealth of experience from thousands of implemented projects, combined with an established routine and dependability. The reason we talk of “real” PlusEnergy is because the perfectly insulated building envelope in combination with renewable power generation, efficient lithium-ion storage technology and intelligent energy management are designed to fully cover the entire energy requirement for heating, hot water, home appliances and lighting—that is, real PlusEnergy!



34

Keilhofer GmbH
 Stadtvilla im Gründerzeit-Stil
www.keilhofer.com

**Built in brick or entirely
 in solid timber construction**

A house completely without mineral wool or plastic foils, for ecological and healthy living. Sustainability from the selection of building materials from renewable raw materials, to low maintenance costs, to the recyclability of materials. We think ahead!



36–37
 HUF HAUS GmbH & Co. KG
 HUF Haus ART 5
www.huf-haus.de

Long-lasting joy in a HUF house

For many decades, this promise to you has been motivating us at HUF HAUS to explore and develop sustainable living concepts. So for HUF HAUS, sustainability starts with the selection of resource-conserving materials, followed by efficient production processes and long-term partnerships with reliable suppliers. In future, each HUF house leaving the factory in Hartenfels will be awarded the German Sustainable Building Council (DGNB) gold certification. Our commitment to our employees including a long-term employee loyalty program goes without saying for the HUF family business. Because the fascinating living experience of a HUF house for a lifetime only evolves out of professional competence and a strong team spirit.

OKAL
 zuhause MIT
 SYSTEM

40/50
 OKAL Haus GmbH
 Okal Musterhaus Poing I/II
www.okal.de

OKAL—certified sustainability

At OKAL, sustainability is a tradition: Already since the 1970s, it has been a crucial factor in the planning of construction projects. With the aim of setting new standards in terms of energy efficiency and eco-friendliness, OKAL always implements advanced technology and uses sustainable building materials. For example, the timber used is FSC-certified. What is more, the prefab house manufacturer has been the first company in the sector to have its houses certified by the German Sustainable Building Council (DGNB). All turn-key and ready-to-paint houses are awarded the gold quality seal as standard. The rating system of the DGNB is deemed one of the most stringent worldwide. At OKAL, the energy transition is alive.



46
 MVS Ziegelbau
 Massivhaus München
www.ziegelbau.de

Clay, loam and water

Clay, loam and water—the ingredients of our building bricks, which we predominantly use for our solid construction houses (Massivhaus). And for a good reason. Bricks are characterized by excellent heat insulation, long service life and a very good environmental balance. Moreover, bricks protect from electro-smog and offer the best sound and fire protection. Thanks to our quality bricks, we need no additional outer wall insulation for the construction of your Massivhaus. This protects the environment and provides a pleasant living climate within your four walls. Our bricks can be used for versatile applications and are perfectly suited for highly thermal-insulated single- and two-family homes or rowhouses.



47
 Fertighaus WEISS GmbH
 Musterhaus Poing
www.fertighaus-weiss.de

Timber—raw material with a future. Ecological building, healthy living

Sustainability does not mean a restriction of individuality, but is a gain in quality of life. The ecological added value already starts with the low primary energy requirement at production. Our materials are regularly tested and certified by independent institutions. We procure our timber exclusively from local sawmills, avoiding long-haul transportation. Our 3rd generation PlusEnergy houses can generate more power than they consume. With the ability of “stockpiling” the self-generated power, there is always sufficient energy available for all family members, even at night or in murky weather. Whatever power is left can then be fed into the grid at lucrative rates.



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SchwörerHaus KG
Energieplus-Haus im modernen
Landhausstil
www.schworerer.de

**Investing the generated power
in electric mobility**

A photovoltaic system, configured as a so-called in-roof solution, generates ecologically clean solar power. Its East-West alignment is advantageous for resident's own use of electricity generated, as the system can yield solar power already early in the morning or late in the evening. The prerequisite for this is a clever storage technology: power generated during the day is stored in a battery and is available in the evening at peak consumption time. Any surplus energy can be used, among others, for electric vehicles. For those wanting to generate even more energy and further relieve the environment, the SchwörerTrainer offers an innovative way to do this. The electrically generated power from pedaling is converted to thermal energy.



54
allkauf haus GmbH
Prestige 2V2
www.allkauf.de

**Quality seal for sustainable
building is financially worthwhile**

Sustainability is a real trend in home-building, as future-oriented construction gets increasingly popular. And it is even rewarded: home-builders making sure that their desired property has been certified by the German Sustainable Building Council (DGNB) will get more than just an ecologically built home. The quality label ensures attractive interest-rate advantages in financing, depending on the supplier. So make the right choice when buying a house and strike it lucky at prefab home specialist allkauf! As the first modular prefab house provider, allkauf has all houses certified by the DGNB—at no extra charge! Drop in and find out more at www.allkauf.de.



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GRIFFNER Fertighaus GmbH
Musterhaus Poing
www.griffner.com

**GRIFFNER—being at home
is everything.**

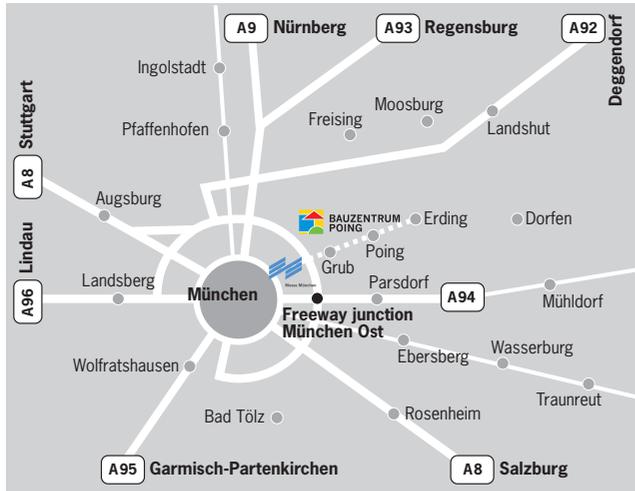
A GRIFFNER house makes you feel comfortable as soon as you come through the door. Smooth wood surfaces give a sensation of intimacy, large windows blend living space and nature, framed by architectural perfection. The quality manufacturer from Carinthia, Austria, offers five home lines, named according to style and roof shape. So a square floor plan is the basis of SQUARE, an interplay of cubes becomes the BOX. The sloping roof shape characterizes the PULT series, CLASSIC stands for the traditional gable roof. And then there is the bungalow MOMENTS, the somewhat different single-story model. Each of these lines offers a number of variations again—individuality and design liberty being, after all, the outstanding characteristics of GRIFFNER house.

SUSTAINABLE BUILDING

- ECOLOGY
- NATURAL MATERIALS
- RAW MATERIAL WOOD
- USER COMFORT
- FUTURE-PROOF
- ECONOMIC EFFICIENCY







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