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LOOK, IT'S WOOD!

SPOTLIGHT: COMPETENCE IN ATHLETIC
AND LEISURE FACILITIES



SPREAD YOUR IDEAS

WiEHAG

TIMBER CONSTRUCTION

EDITORIAL:

Dear architects, planners and builders,



At WIEHAG, we have been demonstrating for more than 160 years that timber is an unique building material both from an economic and design point of view. Timber is solid, yet shapeable, safe and aesthetic, highly flexible and light-weight. Advantages that literally play a “load-bearing” role in particular for the construction of athletic, leisure, arts and cultural centres.

Unsupported load-bearing structures, special shapes, safety and large spans are especially important for these applications. And architectonically challenging projects such as the construction of the Sunderland Aquatic Centre in the United Kingdom or the Tyrolean Waterpower Arena are precisely our strength.

As one of the pioneers in the field of timber construction, we significantly contributed to its development and demonstrated that the raw material timber is virtually unsurpassed, including for the construction of swimming pools, ice rinks, horseback riding arenas, multi-purpose halls and theatres. It is high time to shed more light on this topic in our Look, it's Wood brochure.

Enjoy reading it!

A handwritten signature in blue ink that reads "W. Kronlachner". The signature is fluid and cursive, written on a light grey rectangular background.

Dr. Werner Kronlachner
WIEHAG Managing Director

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TYROLIAN HYDROPOWER ARENA/SPEED SKATING RINK ERFURT/INTERVIEW WITH AN EXPERT/OTTO-STEIDLE CENTRE KIRCHDORF/
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BLACKBOX LINZ 09/THURLES LEISURE FACILITY

COMPETENCE IN EVERY DISCIPLINE

SUNDERLAND AQUATIC CENTRE, UK

The largest swimming pool in Northern England seats approximately 500 spectators and features a span of more than 50 m: the Sunderland Aquatic Centre sets benchmarks. It is used as training site for the 2012 Olympic games.

Go for gold in the Sunderland Aquatic Centre

The “Olympic-size” swimming pool with 50 m lanes is the heart of the Aquatic Centre. It is used as venue for a variety of competitions and as training pool for the Olympic games.

WIEHAG timber solution – ahead in the game

WIEHAG convinced the British clients with technical and economic arguments. They got an idea of WIEHAG’s competence on site, while touring Europe’s most state-of-the-art manufacturing plant in Altheim. The experience with projects carried out in Great Britain and Ireland and the familiarity with the high safety requirements there scored additionally.

The well versed WIEHAG team safely transported the primary structure to Sunderland using eight trucks – defying Kyrill, the storm of the century that was raging at the time. The high degree of prefabrication of the timber allowed the reduction of costs and the roof construction was installed in just five weeks. Another example of the successful, smooth collaboration between WIEHAG and British builders.

The grand opening of the pool was celebrated in 2008 under the motto “Get ready for the biggest pool you’ve ever seen”. With resounding response: the Aquatic Centre was voted “landmark building of the year” and awarded the label “Excellent” for its ecology in the BREEAM certification system.



BUILDER

ARCHITECTS

TECHN. SPECIFICATIONS

SPECIAL FEATURES

City Council Sunderland, Client: Balfour Beatty

Red Box Design Group Architects, structural calculations: ARUP Newcastle

300 m³ glued laminated timber, 50 m span, arches: 3 m radius

The moment thrust between the arched and straight areas was a technical challenge. The WIEHAG timber construction engineers also got this under control with steel pull straps provided in the milled recesses in the top part and a precisely defined pressure zone in the lower part.

COMPETENCE: SWIMMING POOLS

WORK OF ART IN TERMS SHAPE AND FUNCTION

ADVENTURE POOL “PRIENAVERA”, PRIEN AM CHIEMSEE, GERMANY

Unobstructed view of Herrenchiemsee Castle, inspiring transparency, filigree structures. The “Prienvaera” adventure pool located directly at Lake Chiemsee, also affectionately known as “Prienes shell” inspires with its extraordinary pool atmosphere and an approximate area of 2,300 m². This was made possible mainly due to one special feature: a sophisticated load-bearing design based on ray-shaped timber arches.



The “Prienes shell” – leisure adventure with breathtaking ambience.

BUILDER

Market community of Prien/Chiemsee

ARCHITECTS

Dipl.-Ing. A. Zeller & Dipl.-Ing. H. Romstätter

TECHN. SPECIFICATIONS

main load-bearing structure with 18 timber trusses, estimated span between the trusses: 4,5 m

SPECIAL FEATURES

shell-shaped roof construction with light-weight membrane tires





The design requirements for the new Prienersee open-air pool included a shape that blends well with the water and an overall concept that relates to the topic “Spring”. The Italian word „Primavera“ means spring – and so the pool was simply named “Prienersee”. The correlation with the water was supposed to be achieved with a shell-shaped roof.

Timber arches as filigree “shell web”

For this particular design, the airiness and elegant optical appearance of a timber solution proved to be beneficial more than ever. Timber arches made of thin 8 mm raw slats form the filigree “web” of the shell, while transparent membrane tires between the arches create their shape. The resulting transparency provides pool guests with an unforgettable open-air effect. The low own weight of timber additionally facilitated the composition of the foundation on the poor subsoil due to the proximity to the lake front.



The aesthetics of timber – the result speaks for itself.

Roof construction meets highest requirements

The roof featuring 18 curved and trussed main timber couples arranged radially fan-shaped in a horizontal projection and featuring a central axis of symmetry is the main load-bearing structure of the building. The span between the trusses of the roof construction is up to 4.5 m. Sophisticated ventilation technology prevents the condensation of windows and the

superior fire, noise and thermal protection values of the system are impressive.

The combination between the selected roof shape, light-weight membrane tires and high-quality timber creates an airy, light-flooded pool atmosphere, making the “Prienersee shell” an architectonic highlight that all but “swims with the crowd” when it comes to optical appearance and function.

FAMILY-FRIENDLY ADVENTURE ARCHITECTURE

ADVENTURE POOL, PASSAU, GERMANY



“Lively, relaxing, appealing” is the motto of the adventure pool in Passau, combining leisurely fun and relaxation under one roof. The roof spans the centre like a wave, symbolically reflecting the element water. Quality timber made of Siberian larches and Douglas firs helps preserve the natural glow without any care and maintenance required. The warm honest architecture without “imitated” athletic pool character makes the “peb” one of the most beautiful pool facilities in Germany.

BUILDER	Municipal utilities Passau
ARCHITECT	Architect consortium Swimming Pool Passau
TECHN. SPECIFICATIONS	span: 35 m, total area: 9,300 m ²
SPECIAL FEATURES	wave-shaped roof construction

“FIRST CLASS” ENERGY EFFICIENCY

CLONDALKIN SWIMMING POOL, DUBLIN, IRELAND



The new pool hall for the athletic and leisure facility is supposed to be architecturally ambitious, while its impact on the environment is supposed to be as small as possible. This was realised with a large glass front supported by glued laminated girders, allowing every angle of day light to pass through. A solar collector surface of 180 m², the largest of its kind in Ireland, naturally heats the water. For this purpose, the architects planned to use main girders with a max. height of 800 mm. WIEHAG’s solution was to use twin girders with exterior tie rods, once again demonstrating that economics and aesthetics are not mutually exclusive.

BUILDER	South Dublin County Council, Client: PJ Walls
ARCHITECT	Maire O’Sullivan, South Dublin County Council, Architectural Services Department, structural calculations: ARUP Dublin
TECHN. SPECIFICATIONS	free span; 24 m, glued laminated timber: 150 m ³ , total area: 2,900 m ²
SPECIAL FEATURES	twin girders with exterior tie rods, top suspension (post & suspension), laminated glued front support girders

COMPETENCE: SWIMMING POOLS

Timber as ideal building material for indoor pools. Timber is naturally resistant against chemicals. Therefore, it is not affected by chlorine-laden air, making timber an ideal construction material for swimming pools.



AESTHETICS AND ACOUSTICS IN HARMONY

MULTI-PURPOSE CENTRE BURGKIRCHEN, AUSTRIA

When the local band plays at the multi-purpose centre Burgkirchen, optimal acoustics are guaranteed. After all, WIEHAG masters the entire repertoire of customised acoustics solutions.

Acoustics play a key role in hall construction. If the builder is only confronted with this topic at an advanced construction stage, it is often too late for optimal or economic solutions. Therefore, WIEHAG takes into account the proper acoustics of a room as early as during the planning phase.

Preliminary acoustic measurements were conducted for the roof construction of the multipurpose centre Burgkirchen and a special acoustic underface for the roof elements in the music room of the hall attached. Perforated birch plywood, OSB (oriented strand board) and solid timber slats provide optimal noise absorption and prevent reverberation.

Setting the tone, for thermal insulation, too

With a thermal insulation of 240 mm and a U value of 0.17 W/m²K, the multi-purpose centre Burgkirchen is also a trendsetter in terms of energy efficiency. Since 2006, it has served as ideal setting for athletic and leisure events of any kind.



BUILDER
ARCHITECTS
TECHN. SPECIFICATIONS
SPECIAL FEATURES

Verein zur Förderung der Infrastruktur der Gemeinde Burgkirchen & Co. KG
Prof. Dipl.-Ing. Wolfgang Pineker
27 monopitch roof girders, 7 parallel girders, 25 m free span
WIEHAG roofing elements with special ceiling to enhance the acoustics in the music area

COMPETENCE: MULTI-PURPOSE CENTRES



FEELGOOD ZONE FOR HUMANS AND ANIMALS

HORSEBACK RIDING CENTRE DANUBE VALLEY, AUSTRIA

WIEHAG is also firmly grasping the reins when building horseback riding centres. After all, large ranges, a balanced climate and ecology are driving forces in this respect. The horseback riding centre Danube Valley is one of the most formidable reference objects. On an area of almost 40,000m², it accommodates generously sized stalls, a large riding hall and a lunging circle among other things.

“Climate pro” Profidec

Moisture develops easily wherever there are animals. Therefore, a balanced room climate was the main concern for the construction of the horseback riding centre. The glued-laminated timber ceiling system Profidec is ideal for this purpose: The beneficial phase displacement of the glued-laminated timber ceiling achieves an optimal climate and superior high temperature protection.

“Our goal is to create a horseback riding centre in which both humans and animals are feeling at home. With the smooth, experienced realisation by WIEHAG, this was achieved in a particularly aesthetical way”.

Mag. Christina Pfistermüller, manager

Inviting, bright, functional

Wedge-shaped bolsters allow the balanced illumination of the horseback riding centre. The wooden surface emits peace and cheerfulness, the overall appearance is light and elegant. The construction conquered every hurdle including from an aesthetic point of view and became a feel-good zone for humans and animals.



BUILDER

Horseback riding centre Danube Valley, Pfistermüller

ARCHITECTS

Ingenieurholzbau Weissshaidinger

TECHN. SPECIFICATIONS

glued-laminated timber construction (spruce), 12 cm Profidec ceiling system

SPECIAL FEATURES

balanced climate thanks to Profidec

TOP-RATED EQUESTRIAN PARK

MAGNA RACINO EBREICHS DORF, AUSTRIA

It is the most state-of-the art equestrian park in Europe and at the same time a top location for hosting events, congresses and athletic competitions: Magna Racino in Ebreichsdorf, Lower Austria. When the horseback riding centre was built, particular attention was paid to the representative optical appearance in addition to economic efficiency.

The motto of Magna Racino is “a highlight for everyone”. And this can be interpreted in a literal way: the equestrian park with more than 270 ha of land, race tracks with a length of up to 1,800 m, stables to accommodate a total of 600 horses, flood-lighting and covered grandstands is located just outside of Vienna.



“A highlight for everyone” – in terms of aesthetic appeal and economic efficiency

WIEHAG expertly covered the horseback riding centre, thanks to its experience with major projects, economic implementation and finesse in design. The entire supporting structure from the upper edge of the foundation upward was made of glued-laminated timber. 14 frame trusses and almost 156 m³ of timber were used for this challenging project. The result is a functional and architectural highlight, stylishly integrated into the modern concept of a “Mecca” for horse and entertainment enthusiasts.



The most state-of-the art equestrian park in Europe is loaded with superlatives.

BUILDER

Magna Entertainment Corporation Grundstücksentwicklung GmbH

ARCHITECTS

own design by Magna Entertainment Corporation

TECHN. SPECIFICATIONS

14 frame trusses, 156 m³ of timber, WIEHAG triple hinged frame with WIEHAG corner piece

SPECIAL FEATURES

The entire supporting structure was realised with glued-laminated timber from the top edge of the foundation up.

COMPETENCE: HORSEBACK RIDING CENTRES

PROFESSIONALS ON THE ICE

TYROLEAN HYDROPOWER ARENA, AUSTRIA

The athletic centre Tivoli in Innsbruck has made a name for itself in the history of winter sports: the winter Olympics were held here at the beginning of the 1960s and 1970s. The desire to re-transform Innsbruck into a competence centre brought a new site design into being. An ice rink that accommodates close to 3,500 spectators was supposed to be built.

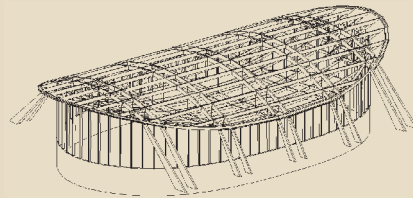
The ice surface of the new rink is more than 5 m lower than the ground. It is accessed at ground level and via tribunes leading down. Therefore, the roof construction needed to meet special requirements.

Elaborate details

Fishbellied supporting beams are spanning across the ice field and the tribune, giving the roof construction the shape of a zeppelin. 400 m³ of glued-laminated timber were processed. Large-sized glazing elements provide a view of the mountain ranges surrounding the Innsbruck Valley and create a unique light quality.

Smartly integrated

Another requirement was to integrate the arena optically and functionally into the existing architecture of the athletic centre and the Olympic hall. For this purpose, existing, characteristic elements such as the honeycomb structure of the front were used and re-interpreted.



COMPETENCE: ICE RINKS

BUILDER

ISpA Athletic Facilities Innsbruck, Errichtungs- und Verwaltungs GmbH

ARCHITECTS

Haus der Technik, architect Schwaighofer, Innsbruck

TECHN. SPECIFICATIONS

span: 44 m, 400 m³ of glued-laminated timber, ridge height: 17.8 m, length: 76 m

SPECIAL FEATURES

The high degree of prefabrication allowed a short assembly time.

EASY WIN FOR WIEHAG TIMBER SOLUTIONS

SPEED SKATING RINK ERFURT, GERMANY

It was supposed to be cost-efficient, nicely shaped and support-free: the new roofing of the speed skating rink Erfurt. With economic efficiency, extensive experience with major projects and architectonic sophistication, WIEHAG was the ideal partner for this endeavour.

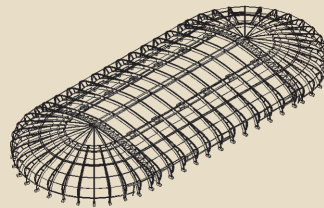
Large design projects with a small budget require a smart solution. WIEHAG demonstrated cost savings of 15% with its economic timber construction for the roofing of the ice rink – and was awarded the contract.

All requirements were met

The hall with an estimated length of 185 m and a ridge height of about 17.5 m was covered without columns. It is spanned by glulam girders, which reflect its oval shape. A flat arch form was achieved in the cross-section, dipping almost vertically, thus forming eaves. A total of 1,600 m³ of glued-laminated timber were processed.

On thin ice

A special condition applied to the construction of the roofing: access to the existing speed skating rinks by foot or vehicle was prohibited. The ice surface had to be separated and protected from the construction activities. How can mobile cranes with a weight of up to 74 tons be brought into the halls under these conditions? WIEHAG solved the issue with a specially designed overpass and crossing bridges.



BUILDER

Erfurt City Council

ARCHITECTS

Planning consortium Pohl & Deyle, Erfurt

TECHN. SPECIFICATIONS

span: 80 m, length: 185 m, height: 17.5 m

SPECIAL FEATURES

The hall structure was built above an existing ice rink to which access was denied.

COMPETENCE: ICE RINKS

“ATHLETIC ACTIVITIES REQUIRE BOLD HALLS AND AESTHETIC SHELLS”

INTERVIEW WITH PROF. MAG. ARCH. ROLAND GNAIGER

What are the potentials of the construction material timber for building athletic and leisure facilities – and what does this mean for the future? “Look, it’s Wood!” has discussed this with someone who must know: Roland Gnaiger – architect, university lecturer and one of the figureheads in Austrian timber construction.

The building material timber is dominating your work in a special way. In your opinion, why is this material so special for the construction of athletic and leisure facilities?



Athletic activities require intelligent halls. Large, bold, unsupported. Structures with a light and elegant appearance. At the same time, they also require a warm ambience, dynamic and sensual shells. The answer is simple: timber!

“TIMBER HAS A BRIGHT FUTURE.”

In other words, timber is a particularly versatile material?

Exactly. Reduced to the least common denominator, the strengths of timber are reasoning and emotionality. The rational side includes the costs, weight, spans and calculable behaviour. The emotional dimension is the one of aesthetics – sensuality, intimacy, feel and warmth. While the rational side dominates in commercial

buildings, emotional arguments such as warmth and cosiness play a main role for residential buildings. Both aspects are relevant with respect to athletic and leisure facilities – and this is why timber is so suitable for this application!

In your opinion, why is building with timber becoming increasingly popular these days?

This is due to the neglected developments during the first half of the 20th century, the missing lobbying, but also with the strange image of timber as poor material that is only suitable for agricultural applications and makeshift arrangements.

In your opinion, what is the future potential of timber construction?

We are dealing with major changes. The image value has been radically changing within a short period of time; education and research are expected to keep pace. Timber is modern, sophisticated, interesting, responsible and future-proof. Qualities that are fully accentuated in athletic and leisure facilities. Timber has a bright future – those who are recognising and utilising its strengths today will be reaping the benefits.

ABOUT THE PERSON:

Roland Gnaiger is architect and lecturer at the University for the Arts in Linz.

The topic timber is characteristic for his work like no other: he is the initiator of the university course “überholz” (about timber), laureate of the timber construction award of Vorarlberg and manager of the national award for architecture and sustainability.

STRIKINGLY INTEGRATIVE

OTTO-STEIDLE CENTRE, KIRCHDORF/INN, GERMANY



Aside from its basic function for athletic activities, the multi-purpose facility is also used as venue for events of any kind. Therefore, the architecture had to create space for various settings. To facilitate the integration into the surroundings of the school and the neighbouring single family home development, the solidium was buried 3 m and designed with side-by-side gable roofs. This way, the spectator not only sees the lower lying play area but also the surrounding green spaces. As an ideal optical addition, the light supporting timber structure spans across the building and an overhanging canopy above the entrance foyer leads to the building.

BUILDER

Municipality of Kirchdorf/Inn

ARCHITECT

Architecture firm Steidle + Partners, Munich,
structural calculations: Dittrich Planungsges.mbh

TECHN. SPECIFICATIONS

building dimensions: 54 x 40 m

SPECIAL FEATURES

lowered solidium with freely spanning 32 m supporting timber structure

IN TUNE WITH NATURE

ATHLETIC CENTRE EGGENBERG/ICKING, GERMANY



The Günther-Stöhr grammar school is nestled in an extensive park. The new athletic facility was supposed to be integrated into this natural setting. WIEHAG mastered this successfully with a roof construction made of fish belly shaped beams: they are characterised by their filigreeness, high load-bearing capacity and high degree of prefabrication. The almost 30 m long beams were transported to the construction site with special trucks and had undergone rain-proofing before leaving the manufacturing plant. To keep the overall appearance harmonious, the athletic facility was built deep into the hillside. The roof of the facility is arched at a radius of approximately 200 m; the ceiling height of 4.50 m allows the easy handling of the sports equipment. With a short assembly time, WIEHAG created a solution that sets discrete accents while conserving the character of the surrounding landscape.

BUILDER

St. Anna School Network

ARCHITECT

Krug & Partner,
structural calculations: Ingenieurbüro Seeberger Friedl und Partner

TECHN. SPECIFICATIONS

approx. width of span: 30 m

SPECIAL FEATURES

primary structure with fish belly shaped trusses

VARIOUS REFERENCES

FILIGREE AND DURABLE

ZINKENBACHBRIDGE WOLFGANGSEE, AUSTRIA



source: Dipl.-Ing. Kurt Pock

These days, a filigree truss bridge sets accents where once an old suspension bridge lead across the Zinkenbach stream. The roof of the pedestrian and cyclist overpass designed as a structural diaphragm, consisting of a 10 cm thick glued-laminated girder. The facing made of larch wood slats is seamlessly connected to it, providing an unobstructed view and protecting the supporting structure from snow and rain. WIEHAG expertly bridged transparent aesthetics with superior protection from the elements.

BUILDER	Municipalities of Strobl and St. Gilgen
ARCHITECT	Halm Kaschnig architectural firm, structural calculations: Dipl.-Ing. Kurt Pock
TECHN. SPECIFICATIONS	span: 40 m, roadway width: 3 m
SPECIAL FEATURES	covered truss bridge with tension diagonals

TOWERING ATTRACTION

TREE TOWER, NATIONAL PARK BAVARIAN FOREST, GERMANY



Although challenging projects are a way of life for WIEHAG, this particular one is unique: the tree tower, the main attraction of the tree-top trekking pathway in the national park Bavarian Forest was honoured as “master piece” and “landmark” as early as in the construction phase. The architectonic novelty surrounds three trees like an egg and towers above all tree tops with a height of 44 m. The 16 glued timber trusses with a height of more than 40 m were created by WIEHAG and are supporting a lookout platform that weighs many tons and is accessible via a ramp. A breathtaking highlight – made possible with architectonic creativity and skilful design.

BUILDER	Adventure ACADEMY Bad Kötzing
ARCHITECT	Arch. Josef Stöger, Schönberg
TECHN. SPECIFICATIONS	egg-shaped tower with a diameter of 32 m and a height of 44 m, 16 glued timber trusses with a length of more than 40 m, lookout platform weighing 17.5 t
SPECIAL FEATURES	unique architectonic attraction of the longest tree-top trekking pathway in the world

VARIOUS REFERENCES

TIMBER PLAYS THE LEAD ROLE

BLACKBOX LINZ 09, AUSTRIA



Flexibility was in the “limelight” when the theatre for the European Capital of Culture Linz 2009 was built in 09: It is scheduled to be disassembled in 2010 and re-erected at the new place of destination. The stage is set for WIEHAG! The glued truss support system with prefabricated roofing and wall elements was assembled in the record-breaking time of 2 ½ weeks. Thanks to the separation of the shell and the supporting structure, the disassembly and reassembly can be achieved with the lowest possible cost and time requirement. More than 2,000 m² of WIEHAG roofing elements were used. The so-called “Blackbox” is the showplace of numerous events and won the Special Award for “Temporary Architecture” at the Upper Austrian Wood Awards 2009.

BUILDER

Linz AG

ARCHITECT

Riepl Riepl Architects, Linz, structural calculations: Aigner-Friedhuber & Partner

TECHN. SPECIFICATIONS

total area: 2,400 m², all timber components are made of spruce, ultimate room acoustics thanks to framework wall with double-sided OSB plate, dead sounding and vapour barrier

SPECIAL FEATURES

record-breaking assembly time of just 2 ½ weeks, the shell and supporting structure are separated

LEISURE FACILITY DESIGN, WITH A NEW ROOF

THURLES LEISURE CENTRE, IRELAND



The Thurles leisure facilities were not considered very interesting. A new leisure centre, built directly adjacent to the state-of-the-art concert hall was supposed to change that. The assembly turned out to be extremely difficult because the pool was very small and not fit for traffic. However, this was not a problem for WIEHAG which is used to mastering challenges like this one with a wealth of experience. The Thurles Leisure Centre with the 17 m freely suspended characteristic wave-shaped roof lends a completely new image to the leisure facilities in Thurles.

BUILDER

Thurles Leisure Centre

ARCHITECT

Nader Mansouri for S + P Architects + Interior Designers, structural calculations: ARUP Dublin

TECHN. SPECIFICATIONS

45 m³ of glued-laminated timber, wave-shaped supporting structures with an unsupported span of 17 m, the fitness area is spanned by banana trusses

SPECIAL FEATURES

difficult assembly because the pool was not fit for traffic

VARIOUS REFERENCES

COUNTYHALL LIMERICK, EISHALLE INNSBRUCK, EISHALLE NÜRNBERG, EISSCHNELLAUFHALLE ERFURT, ERD-
BERGER STEG, BRÜCKE ZWIESEL, LOGISTIKZENTRUM DUEVILLE, MESSE RIED, ERLEBNISBAD „PRIENAVERA“, MA-
XIMARKT WELS, BLACKBOX LINZ 09, SALZLAGERHALLE DEUSA, SALZLAGERHALLE SALINE, SALZBURG ARENA,
3-FACH TURNHALLE KIRCHDORF, WELTREKORD WERBESTUHL XXXLUTZ, BRÜCKE LIEZEN, SPAR SCHWAZ, SPAR
EGGELSBERG, PISTENÜBERFÜHRUNG KATSCHBERG, MESSE KLAGENFURT, ÖSTERREICHERHAUS NAGANO, AMAG
OFENHALLEN, ATOMIC PRODUKTIONSSTÄTTE, SALZBURGARENA, DANZAS LOGISTIKZENTRUM, MESSE MAGDEBURG
EINKAUFSZENTRUM VILLORBA, MESSE DRESDEN, MESSE FREISTADT, SAP CENTER GALWAY, EINKAUFSZENTRUM
MONFALCONE, HORNBAACH KREMS, SPAR BOZEN, AQUAPULCO BAD SCHALLERBACH, LOGISTIKCENTER DUISBURG,
VIP HANGAR FLUGHAFEN WIEN, MESSE STRAUBING, HALLENBAD PRIENAVERA, SPORTZENTRUM URRETXU, RU-
PERTUSBAD, ANITA LOGISTIKZENTRUM, REEDEREI EMDEN, ARA LOGISTIKZENTRUM, HALLENBAD BAD BIRNBACH,
HALLENBAD BAD LIEBENWERDA, BAHNHOF RÜSSELSHEIM, HALLE BERTI, BILLA ST. GILGEN, BOCCIODROMO ME-
RAN, BOCCIODROMO TIEZZO, BODEGA PERALTA, SEMINARSCHLOSS BOGENHOFEN, BRÜCKE SCHWERTBERG, BRÜ-
CKE ST. VALENTIN, CAMPO TENNIS CEPPINO, MESSEHALLE FREISTADT, CAPANNONE VEDELAGO, SPORTZENTRUM
BOZEN, COIPI PALESTRA LOVADINA, BRÜCKE DRACHSELSRIED, EDIFICIO COMMERCIALE FELTRE, HALLE EGGER,
MESSE WELS: MESSEZENTRUM NEU, EISHALLE HARD, EMBATEX, RAIKA FELDKIRCHEN, BINDERBERGER HANDEN-
BERG, HALLENBAD PASSAU, HORNBAACH WELS, HANNAK SALZBURG, HOTEL HACIENDA PRINCIPE TENERIFFA, KOM-
PLEXBAU STRASSBURG, KREUZHAUSERHOF SAN, KÖNIGSTHERME KÖNIGSBRUNN, PRODUKTIONSHALLE LÖFFLER,
LINDAUPARK, MASCHINENHALLE HÜTTENBERGER, MIBA VORCHDORF, MIEDL MAINKOFEN, ZIMMEREI NIEDERLEIT-
NER, OBSTHOF SEDLMEIER, SCHULE REGENSBURG, REITHALLE HÖFLER, ROTTEHALLE ASTEN, RUDERPAVILLON
LINZ, SAB SIGGERWIESEN, SALZBURGER ZIEGELWERKE, STADION SALZBURG, SPAR ST. VEITH, TURNHALLE LIEFE-
RING, PISTENÜBERFÜHRUNG KATSCHBERG, NEUE MESSE KARLSRUHE, SPAR HABERSDORF, TURNHALLE VATERS-
TETTEN, UNIVERSITY COLLEGE DUBLIN, HOTEL NEBRADA ANDALUSIEN, COBH LEISURE CENTER, SUNDERLAND
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DAS, PISCINA BEASAIN, BODEGA RUIZ DE TOMINO, PISCINAS SEVILLA, BATIBOIS COLMAR, SPORTHALL KATOWICE

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SPREAD YOUR IDEAS

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TIMBER CONSTRUCTION