MADE FACADE

By EFTCG

WOOD
ENVIRONMENTS

Natural living

Norden Facade is the emblem of an entrepreneurial group operating at international level and permeated with great dynamism. As happens in nature for Norden Facade too, growth, continuous improvement and natural sustainabi-lity are fundamental premises for success. The Companies in the Norden Facade group treasure their experience. Their vast range of knowledge contributes, with innovation and investment in vanguard capabilities and technologies, in enriching a Company history already characterised by great success and in consolidating a dominant market position in Europe. The new possibilities are synonyms of growth. In this regard, an ecological conscience offers ever greater thrust towards fair trade, product innovation and efficiency in production processes. Norden Facade has always been attentive to these themes, to create today a healthy and pleasant world to live in tomorrow. This is why, for more than 80 years, the material "wood" is at the centre of the Norden Facade Group entrepreneurial vision, and from this has grown the Group's great competence in spaces for living. The sense of these spaces is found in the quality of the products in Norden Facade vertical process chain: sawn timber, solid wood panels, glulam, glulam structures, doors, windows, eco-homes and turnkey projects that can satisfy any need. Our staff of more than 1.400 in Europe operates with a sense of responsibility as to sustainability, the resource "wood" and product innovation to guarantee high quality standards in the four areas of activity of the Norden Facade Group:

Group activity areas:

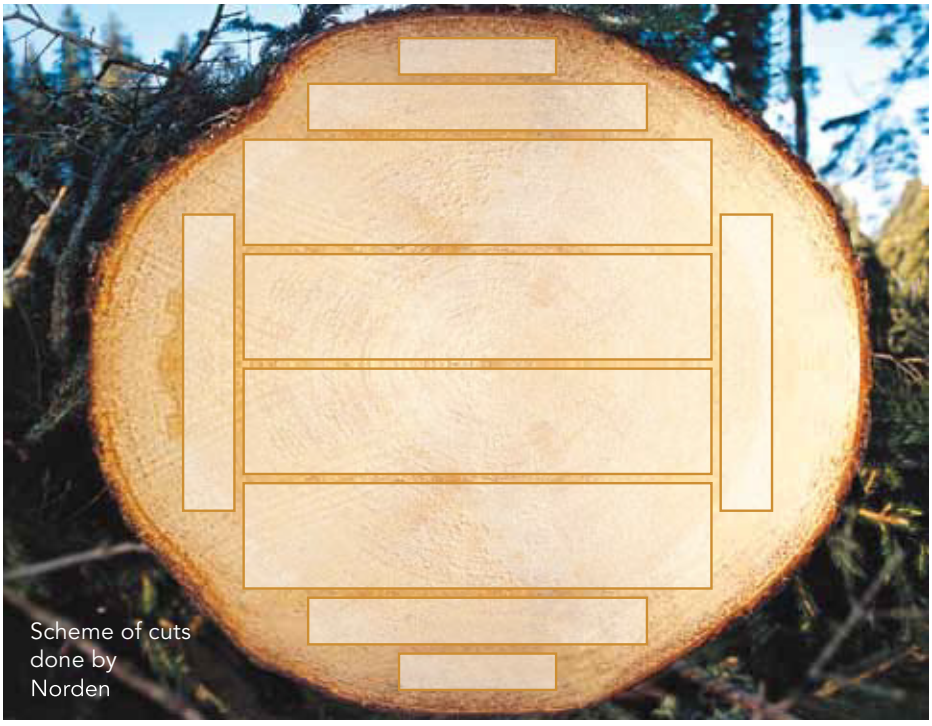
By EFTCG NORDEN FACADE

A new
building idea
is growing

The challenge of precision in the production of standard sawn timber

WOOD INDUSTRY

Norden Facade, sited in the forest region of Stiria, is the first link in the processing chain.The modern sawmill is specialised in the production of strips for glulam beams. The con-tinuous investment in innovative plant guarantees high quality of performance, from sawing to drying and processing. Norden today has a high performance planing line (the yearly capacity reaches 250.000 m3). For Norden precision is the synonym of total reliability, under all aspects: from procurement of the raw materials all the way to delivery on time. A result made possible thanks to efficiency, reliability and dedication. The Norden stan-dard products represent the fundamental premise for processing at the highest level.



Scheme of cuts done by Norden

MAIN SIZES

Glulam strips in spruce k/d
Quality: sawn face SI – NSI
Size: 46x95 – 275 L 4 m

Glulam strips in spruce k/d
Quality: preplaned and scanned as to surface quality and structural strength – CE certification
Size: 44x90 – 270 L 4 m

Posts in fresh spruce/silver fir
Quality: III – IV – V
Size: 46x215/220 240/245 L 4 m

Posts in fresh spruce/silver fir
Quality: III – IV – V;
corrugated steel insert at the head
Sizes: 46x215/220 240/245 L 4 m

Special sizes: on request

Scantlings in fresh spruce/silver fir
Quality: III – IV – V or run of the mill
Size: 75x75; 95x95; 75x95 L 4 m

Planks in spruce/silver fir in main sizes
Quality: III – IV – V
Size: 27x120 L 4 m

OTHER SIZES

Square sections k/d in spruce/silver fir, reduced width
Quality: III – V
Size: 23x100/120/150 L 4 m

Other sizes in fresh spruce/silver fir, reduced width
Quality: packaged
Size: 17x75 3+4 m; 17x95 L 4 m;
17x115 L 4 m

Various sizes produced in fresh spruce/silver fir + k/d
Quality: III – V
Size: 23x8-16 L 3+4 m

GLULAM

Beams in glulam k/d on request
Finger-jointed products on request
Roof elements on request

Glulam product sizes:
Width 80 to 270 mm
Height 60 to 1300 mm
Length 4000 to 13500 mm

Standard: planed finish, bevelled, film-packaged

NORDENPAN
Solid wood panels

WOOD INDUSTRY

NORDENPAN wood panels are among the best and most well-known on the international market. Highest quality in all details: on all surfaces and on all edges. The best known retailers of wood materials in Europe buy their solid wood panels from the facilities in Valdaora and Strassen. Innovation, continuous investment and a concept of quality that allows no compromise are the preconditions that have made possible this ex-cellent market position. The production programme offers a wide range of single and multi-layer wood pa-nels, in a variety of sizes and qualities. The solid wood panels from NORDENPAN are ideal for industrial building work, the construction of sheds, indoor finishing and facades. Within the vision of a production oriented to environmental conscience and protection, all waste products are transformed into wood pellets.

Headquarters and production VALDAORA

Headquarters and production STRASSEN (A)

SPRUCE

PINE

LARCH

1-S SINGLE-LAYER

Thickness: 10-55 mm
Formats: 4000x1200 / 5000x1200 mm
Special processing on request
Quality to norm EN 13017-1: 0 and B
Wood types: spruce + spruce antiqued + pine

3-S THREE-LAYER

Thickness: 13-60 mm
Formats: 5000x2050 mm
Quality to norm EN 13017-1: 0-A-B-C-D
And various combinations
Wood type: spruce + spruce antiqued + pine + larch + douglas fir

5-S FIVE-LAYER

Thickness: 27-42 mm
Format: 5000x2050 mm
Quality to norm EN 13017-1: on request
Wood type: spruce, others on request

The specialist for glulam in Europe

The NORDENLAM trademark is an explicit reference to Northern countries, where the culture for wood has been rooted for centuries. The company has its head office in Magdeburg. From here, products of the hig-hest quality are made available to the market, produced mainly using wood from northern spruces and firs. The highest product quality and shortest delivery times – the elements of the NORDENLAM philosophy that is daily charged with new vitality in the modern company facility. From a perfect synergy between the intelli-gence of man and the power of machinery is born a glulam of superior quality.

GLULAM

Wood type: spruce
Quality: rough, industrial
Strength: GL28, GL32, GL36
Glue type: melamine resin
Wood humidity: 8 - 12%
Sizes: width 60 mm to 240 mm / max height 1.240 mm / length 2.000 mm to max 24.000 mm
Possibility of delivery in standard sizes and packaged (on request, beams can be covered individually), or as to your specification.

EXPRESS ELEMENTS

NORDENLAM profiles for floors are glulam elements shaped on both sides with tongue-and-groove or male-male connection. The prefabrication level and the calibration of the profiled ele-ments allow maximum speed and efficiency in assembly. **Sup-plementary processing:** upper grooving for element connection (thickness), exact cuts and profiles at the support areas, ope-nings, insertion of supports (e.g. Ramp sleeves).

DUO BEAMS

DUO beams are made up of two single layers of northern spruce, bonded with parallel fibres of the same section. This confers on this building element high intrinsic stability. The quality of the wood and of the planing process on DUO beams allows for no compromise. This building element can therefore answer to the most rigorous aesthetic requirements and combines the visual characteristics of a solid wood beam with the technical aspects of defined strength, controlled wood humidity and absolute dimensional stability.

CUTTING CENTRE PROCESSING

At our cutting centre, equipped with the most modern CNC processing systems, we can produce automatically and in three dimensions, glulam building elements up to a length of 24 m and a height of 900 mm. The cutting proceeds according to design, thus guaranteeing maximum precision and complete absence of error. Larger building elements, that is of height greater than 900 mm, can be cut manually.

PAINTING AND IMPREGNATION

The use of glulam outdoors requires additional protection of the material against dirt, moulds, blue fungus and insects. Sometimes just colouring is sufficient. Special requests as to painting and impregnation are satisfied when possible.

SPECIAL OR CURV ED BUILDING ELEMENTS

Curvature can be freely selected, as to the architect's specifications. In order to emphasize the details while creating at the same time highly demanding structures, from the statics point of view, it may be necessary to use trusses of extra height, curved or trapezoidal, in combination with rectilinear glulam building elements. Such constructions in wood lead to elegant and aesthetically pleasant solutions. Glulam offers an almost unlimited number of possibilities in the field of timber buildings.

Complex glulam structures for the domestic and foreign markets

The construction of technically complex projects has become a distinctive characteristic of Norden Facade wood building construction. Exactly this specific capability has caused the Norden Facade group to become a preferred partner in all Europe for the realization of glulam building structures. Knowhow, many years of experience and extreme specialist competence guarantee reliable and innovative solutions for many projects: sports centres and ice rinks, industrial and handicraft buildings, churches, cultural and congress centres, shopping malls and residential complexes.
The single companies set up the processes needed for design, production and erection of the structure, as to customer demands. This capability derives from an incomparable competence as to statics and from deep knowledge of both construction techniques and materials. The exchange and alliance between all these competences, present in the single companies, ensure that Norden Facade wood building construction is a robust partner having the widest range of technologies available at European level. Further, the agile company organisation offers a capacity for quick reaction to the market.
The wood constructions by Norden Facade give life to fascinating settings that can satisfy the most demanding quality needs. The capabilities of the Norden Facade companies in the field of wood building construction are oriented to the concrete realisation of ambitious ideas and projects for all customers, whether private and public, industrial and commercial, requiring valid and safe solutions.

Norden Facade WOOD BUILDING CONSTRUCTION

SERVICES AND PRODUCTS

- Design, production and erection of complex wood structures for a wide variety of applications
- elements for roofs and walls of large industrial buildings
- Creation of wood structures of small, medium and large dimensions

DATA & FACTS

- Experience and competence: more than 40 years
- Staff in all of Europe: 510
  (of whom engineers and statics experts): 60
- Production/year: 75.000 m^3 special construction elements
  300.000 m^2 roof elements
- Customers: all over the world

TURKS & CAICOS - UK

EGYPT

SPAINSPAIN

SWITZERLAND

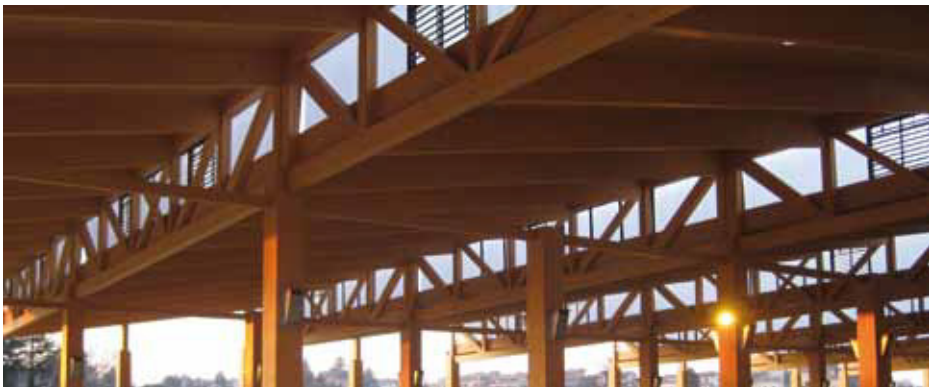
ROMANIA

SOUTH AFRICA

The other name of glulam

WOOD BUILDING CON STRUCTION

Norden was founded in 1974 in Bressanone, based on the South Tyrolean tradition and love for wood and on German technical know-how. It was the first company in Italy to produce and build glulam struc-tures.The Italian Leader, Norden, today is among the major European producers of glulam.
The growing demand for glulam beams and structures has led, in recent years, to constant growth of the company and has further encouraged research and technology development. Further, our staff, young, dynamic, highly specialised and with an unequalled know-how in the field of glulam, allow Norden to offer their customers a complete service: from preliminary dimensioning to final design and installation. Also, consultancy by renowned professionals and constant collaboration with Universities and scientific research Institutes allow the creation of projects that are technologically innovative, both as to conception and to construction methods.
Norden SpA has more than 175 employees, of whom 55 are designers and engineers.



INDUSTRIAL WAREHOUSE OGGIONA C. SANTO STEFANO

(VA - ITALY)

Buyer: Novello Srl
Architect: Studio Associato Rabuffetti, Geom. V. Colombo, Geom. M. Gropp
Covered area: 16.400 m^2
Glulam: 1.433 m^3
Built in Year: 2010

NEW RESEARCH CENTRE KERAKOLL GREENLAB

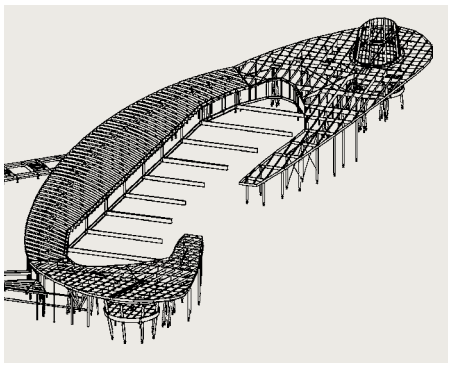
SASSUOLO (MO - ITALY)

Buyer: Kerakoll Group
Architect: Studio BIOS - Florence
Covered area: 2.700 m^2
Glulam: 342 m^3
Built in Year: 2010

WINERY SAN ZENO DI COLOGNOLA AI COLLI

(VA - ITALY)

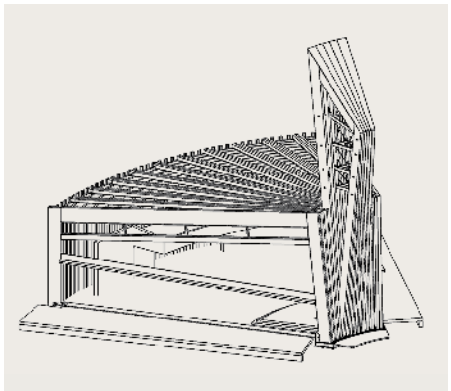
Buyer: Cooperative Le Meridiane
Architect: Bruno Bronzini
Covered area: 4.300 m^2
Glulam: 430 m^3
Built in Year: 2009



CARREFOUR SHOPPING CENTRE IN LIMBIATE

LIMBIATE (MI - ITALY)

Buyer: GS SpA Carrefour
Main Architect: Arch. A. Cedro, Arch. O. Bonafé, Studio Aedis Architetti Associati
Covered Area: 10.000 m^2
Glulam: 1.400 m^3
Period of erection of the glulam structure: May 2005 - February 2006



CHIESA DI SAN FRANCESCO, ALPE DI SIUSI, COMPATSCH

(BZ - ITALY)

Buyer: Parrocchia SS. Apostoli Pietro e Paolo, Castelrotto
Architect: Walter Dietl (BZ)
Covered Area: 500 m^2
Glulam: 168 m^3
Built in Year: 2008

For sustainable building

WOOD BUILDING CON STRUCTION

Norden Sud is the most important producer of structural glulam in the South of Italy, with head office in Calitri, Irpinia. Founded in 1991, the Company saw strong development in the years 2000 - 2010: the technical and sales departments were strengthened and two new industrial warehouses were built for automatic cutting and for special processes.

The Company, part of the **Norden Facade** Group, complements the Norden Company in Bressanone: conceived to be close to our customers in Southern Italy, Norden Sud guarantees all the experience, professio- nalism and the quality of the approach to building by Norden, the leader in Italy in the field of glulam since 1974. Today the Calitri facility is the largest DESIGN AND CONSTRUCTION centre for wood structures in the Central and Southern areas of Italy.

Every year we produce approx. 8000 m^3 of glulam, certified as to EN 14080. The facility has a technical office with twenty engineers who can design structures however complex as to Italian and European standards. Norden Sud has a total of 50 staff working at the head office in Calitri (AV) and at the local offices in Avellino and Palermo. The Company services all our customers in Southern and Central Italy, in Middle Eastern countries and, for major projects, in the Caribbean too.

MEMORIAL TO ATATÜRK'S MOTHER

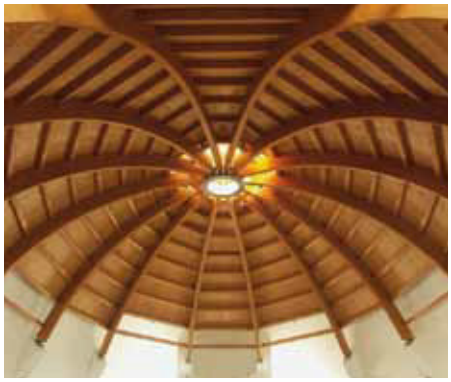
IZMIR (TURKEY)

Customer: Oran Mimarlik
Designer: Oran Mimarlik
Contractor: Norden Sud SpA
Work completed: 2006

"TERRA DEI RE" WINERY

RIONERO IN VULTURE (PZ)

Customer: Terra dei Re di Leone Paride
Designer: arch. Palmiro Sacco Contractor: Norden Sud SpA
Work completed: 2004



MULTIPLEX CINEMA "CITTÀ DEL CINEMA"

FOGGIA (FG)

Customer: Finsud
Designer: arch. Gianfelice
Contractor: Norden Sud SpA
Work completed: 2008

CHURCH "MADONNA DELLA FIDUCIA"

CALIMERA (LE)

Customer: Marullo Costruzioni srl
Designer: arch. Montagna
Contractor: Norden Sud SpA
Work completed: 2006

PIERO LISSONI VILLAS

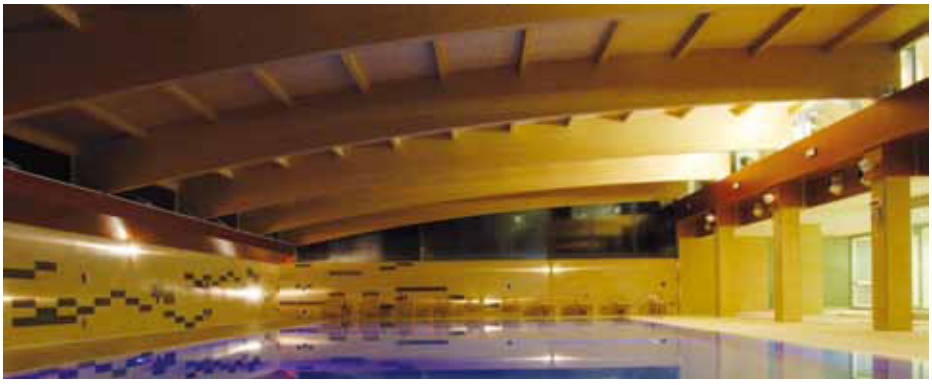
TURKS&CAICOS ISLANDS

Customer: Dellis Construction LTD
Designer: Piero Lissoni
Contractor: Norden Sud SpA
Work completed: 2009

CYCLING BRIDGE ON THE CALORE RIVER

BENEVENTO (BN)

Customer: Consorzio ASI - Benevento
Designer: Eng. Travaglione
Contractor: Norden Sud SpA
Work completed: 2007



SWIMMING POOL „GRANDE IPPODROMO DEL MEDITERRANEO"

SYRACUSE (ITALY).

Customer: Grande Ippodromo del Mediterraneo
Designer: Eng. Garofolo, Eng. Valenti
Contractor: Norden Sud SpA
Work completed: 2009

SHOPPING CENTRE "LE BOLLE"

EBOLI (SA - ITALY)

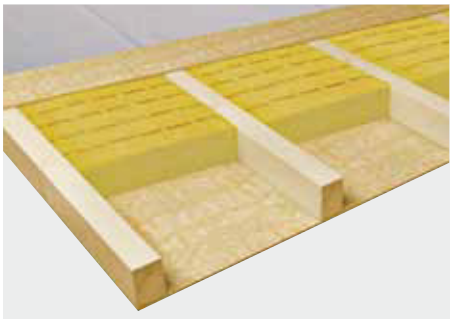
Customer: Cooperative C.E.S.I. Imola (BO - Italy)
Architects: Chapam Taylor Architetti Srl Studio Architettura - Milano
Buyer: Trade Mart Srl, Paese (TV - Italy)
Contractor: Norden Sud SpA
Work completed: September 2010

Norden - The solution you were looking for

WOOD BUILDING CON STRUCTION

The production capabilities of Norden include the supply of glulam beams and structural elements for roofs and walls of industrial, commercial, multi-storey and farm buildings. The design, erection and maintenance services, together with in-house sheet metal fabrication, allow the Company a successful presence on the market as a supplier of complete solutions for building shells, including the load bea-ring structure. The supply range also includes prefabricated structural elements in glulam. The vicinity of Eastern European countries offers logistic advantages and hence an interesting growth potential in these emerging markets.

Cold rolled steel centre Böhler, Uddeholm



COMPANY BUILDING XOLAR EBERSTALZELL

Customer: Xolar Solaranlagen
Architect: Hörndler Bauplanung GmbH, Neuhofen/Ybbs, Austria.
Complete solution: load-bearing structure, roof, walls, facades
Work completed: 2008

Shed type roof on trusses span 30 m. 17,000 m² wood roof elements acting as sway bracing. Office building with truss structure. Facade in metal and wood. The entire structure was built using concepts for low energy demand.

BREITWIESER EXHIBITION HALL

Customer: Breitwieser GmbH, Tulln
Architect: objektplaner.at, Tulln – Eng. Schagerl
Complete solution for the roof: 4.100 m² roof elements and 430 m³ glulam structure.
Work completed: 2010

The load bearing structure consists of glulam beams with parallel members. The roof elements anchored to the lower beam member, combined with large continuous skylights, placed between every other pair of beams over the entire width of the hall, ensure the extraordinarily light weight of the structure. The wood elements are all white, to further increase the indoor luminosity of the building.

SPORTCOMPLEX ASTRACHAN (RUS)

Customer: Oblast Astrachan, Southern Russian Federation
Architect: A. Norden,
Structures in wood: Lackner + Raml ZTGmbH
Complete solution for the roof: Norden Facade Norden / ca. 920 m³ e 10.500 m² roof covering elements
Work completed: 2007

The sports arena is made with two 100 m double lattice trusses at pitch 27 m, not connected in height to the adjacent roof structure.

MISSION IN KWASIZABANTU, DURBAN (SO UTH AFRICA)

Customer: KwaSizabantu Mission, Switzerland
Architect: Norden Facade Norden GmbH
Glulam structure: 380 m³ of curved beams
Work completed: 2007

Curved beams with three hinges, span 60 m, glulam purlins, three-ply deal panels as sway-bracing, waterproofing, sea transport from Antwerp to Durban, re-building in glulam of a function hall originally in steel that was completely destroyed by fire.

The more ambitious engineering projects are usually developed in tight collaboration between buyers and designers; and our agencies are ideal local partners for architects and engineers, offering capable and professional support for construction of wood buildings.

The Company Norden Facade Swiss AG was founded in 2010 and operates over all Switzerland. On customer request the orders placed in Switzerland can be monitored by the Swiss agency with the help of Norden SpA Bressanone. The Swiss agency has been operating for a short time, but already has some interesting orders.

In 2010 the Norden Facade Group founded Norden Facade in France, continuing coherently the policy of expan-sion on a European level. The French market shows strong growth; sales agency is following up on some large and complex glulam structures.
The knowhow and long experience of Norden guarantee technical support in planning and develo-ping these projects.

With the foundation of the Company Norden Facade Ingenieurholzbau Slovenia in Ljubljana in 2010, a further step was taken in our strategy of expansion in the South Eastern Mediterranean area. Nearby countries such as Croatia, Bosnia Herzegovina and Macedonia are assisted by the Ljubljana agency. The Slovenian agency develops complete technical solutions for construction of wood roofs and walls, with marketing and project management for the buildings under construction. Technical support is by the Norden Facade agency in Villach, while supplies are provided by Norden Facade Norden GmbH in Obergrafendorf.

Large Carpentry Firms

Large local carpentry firms complete the offer by Norden Facade wood building construction. The widespread presence of these firms in important Italian regions where wood tradition is deeply rooted is a primary aspect of our company strategy. Distribution at local level and exploitation of the group's know how is the leitmotiv of our idea of the market. The results are projects for wood structures of small and medium size that are particularly suggestive.

Specialised in wood building constructions

Chenevier SpA has been operating in the Valle d'Aosta since 1974. Always a leader in the region in the wood sector, the firm is specialised in small and medium sized buildings in solid wood and glulam, such as roofs, bridges, coverings for public buildings and high altitude refuges. In the last five years there has been considerable investment in modern machinery and in the last few months the industrial area, formerly property of the Region, has been bought. The main customers are private users and (mainly local) building contractors.

Structures in solid wood and glulam

BCB Srl has a production range from solid and glulam wood, to composite structures in wood and con-crete using the NORDEN® system, and to composite structural elements in steel and wood. Floors built with the NORDEN® system optimise the combination between the two differing materials, wood and steel, ex-ploiting their respective positive mechanical characteristics, and transmitting the warmth, pleasantness and light weight of a traditional wood floor. In recent years BCB Srl has concentrated attention on construction of buildings for farms, homes and amenities of all sizes.

Cascina - roof trusses in „Uso Fiume" beams

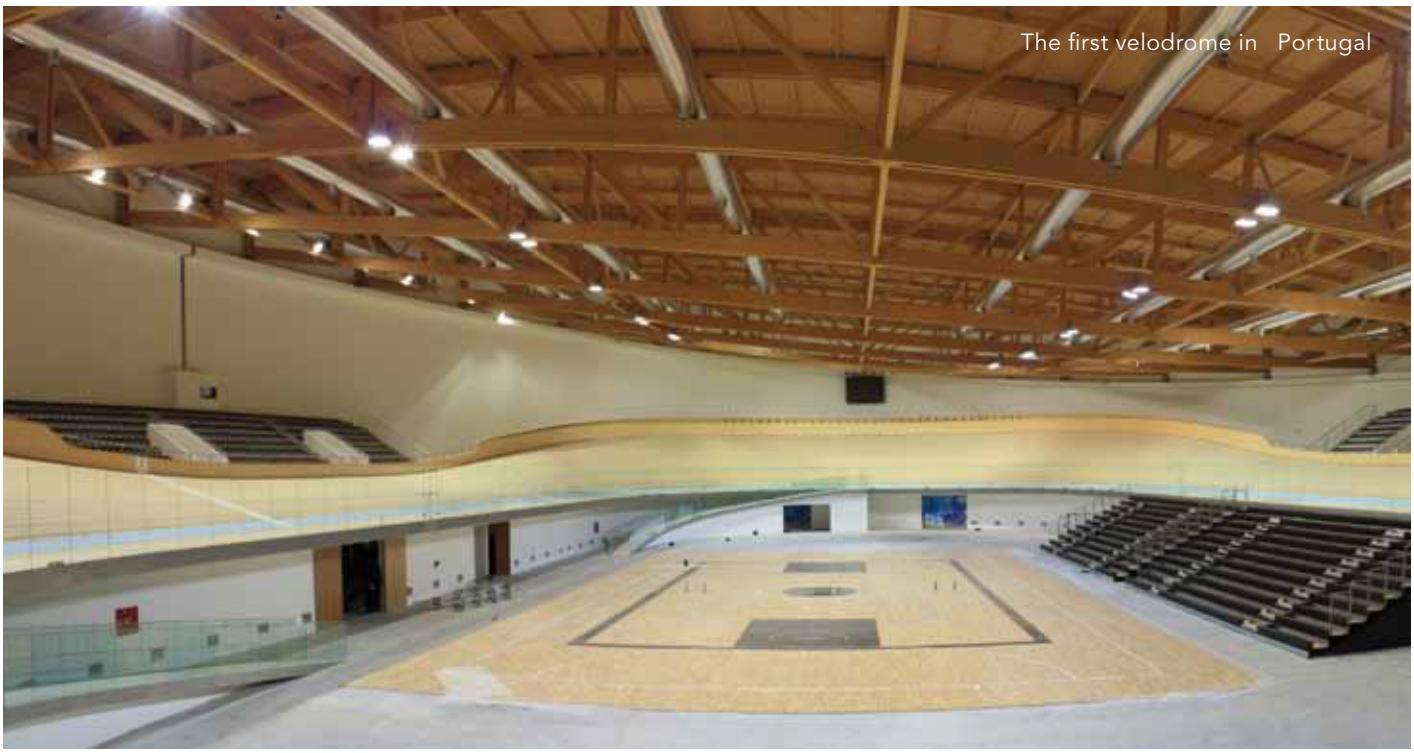
Wood-Concrete comp. structure NORDEN® System

A prestige building by Norden: Velodrómo Nacional de Sanghalos in Portugal

Designer: Arch. Rui Rosmaninho (Portugal)

The new Sanghalos velodrome is in the town of Anadia, 90 km South of Porto. An ellipse measuring 80 x 120 metres which, for the considerable size of the roof, demanded the use of 10 glulam wood lattice trusses of five different lengths, assembled in 4 sway braced bays reaching a maximum span of 79 metres.

Thanks to a skilful and meticulous preliminary design and to resourceful organisation of both transport and erection at site, an emblematic speed of execution was guaranteed (18 weeks for production and assembly). The velodrome was completed in March 2009, with extremely short construction times, considering the substantial amount of material used and the very large dimensions of the building.



The first velodrome in Portugal

Large turnkey projects built in wood

WOOD BUILDING CON STRUCTION

WOOD HOMES

Norden Facade Objektbau supplies complex and personalised structures according to the needs of the customer, among which public buildings, offices, industrial, commercial and residential structures, hotels and many others. Norden Facade Objektbau follows the entire construction project from planning to delivery. This procedure guarantees optimum use of resources both as to times and to costs. Norden Facade Objektbau was born from the cooperation bet-ween two important companies: Norden Facade Haus SpA and Norden SpA. Both companies bring their many years experience to the new offer of products and so can provide the user with a complete and effective service. In 2010 a Norden Facade office was set up in France, Norden Facade SAS, which has already built some interesting projects. In 2011 Norden Facade Objektbau set up their own office in Austria.

Résidence de Tourisme, Avoriaz (F)

COMPETENCE AND PERFORMANCE:

- FEASIBILITY STUDIES
- DESIGN
- WORKS MANAGEMENT
- BUILDING WORK
- SYSTEMS
- ILLUMINATION
- ANTI-INTRUSION PROTECTION
- FURNISHINGS

qualityaustria
Erfolg mit Qualität

CQOP SC

NORDEN FACADE

BIO VITALHOTEL

Reawaken the spirit in the
Bio-Hotel of natural pleasures

Customer: Theiner's Garten Bio Vitalhotel, Gargazzone (South Tyrol)
Architectural project: baukraft Srl - Dominik Rieder, Georg Norden Facade
General contractor: Norden Facade Objektbau Srl
Volume: 21.636 m^3
(above ground 13.000 m^3 below ground 8.363 m^3)
Duration: 12 months
Work ended: February 2009

OFFICES

A comfortable atmosphere
in a modern working environment

Customer: Barth Innenausbau, Bressanone (South Tyrol)
Architectural design: Gerd Bergmeister, Christian Schwienbacher
General contractor: Norden Facade Objektbau Srl
Volume: approximately 2.500 m^3
Duration: 6 months
Work ended: August 2008

KINDERGARTEN

Children in an environment
of pure wellbeing

Customer: Arven (T, Italy)
Architectural project: Mama Studio Associato di Architettura ed Ingegneria (TV)
General contractor: Norden Facade Objektbau Srl
Volume: approximately 14.000 m^3
Duration: 9 months
Work ended: September 2008

SERVICE SECTOR

Pharmacy –
the house of health in natural materials

Customer: BCEG Snc (BS, Italy)
Architectural project: Studio55 - Arch. Giovannibattista Rovetta e Arch. Giordano Frassine - (BS)
General contractor: Norden Facade Objektbau Srl
Volume: 4.345 m^3
Duration: 2 months
Work ended: April 2010

SOCIAL HOUSING

Rapid intervention under emergency conditions

Customer: Presidency of the Italian Council of Ministers - Civil Protection Department
Architectural project: Dr. Ing. Simon Weber - Norden Facade Objektbau Srl
General contractor: Norden Facade Objektbau Srl
Volume: approximately 40.000 m^3
Number of units: 220 (of various size), of which 10 for the handicapped
Duration: 42 days
Work ended: December 2009

The Challenge of Wellbeing

WOOD HOMES

Norden Facade homes are CasaClima (ClimaHouse)-certified and are made to measure for each customer. Ori-ginally they were built in the typical Alpine style, the Blockhaus. Norden Facade has however constantly developed further the construction technology, taking seriously the needs of customers and bringing in continuous in-novation. The processing of wood, a natural material, and the use of ecological materials such as cork, hemp fibre, plasterboard and wood fibre panels underline the great sensitivity of Norden Facade for building with atten-tion to nature. This is why it has been awarded the title of first CASACLIMA NATURA (ClimaHouse Nature) company. In 40 years of activity, Norden Facade has designed and built all over the world more than 12.000 wood houses. Norden Facade Haus customers are mainly private, realising their dream of a single or two family home. The designer and architect is therefore an important partner for the success of a living space that must last a life-time. Norden Facade Haus is the first Italian company certified "Azienda Casa Clima" (ClimaHouse Company).

Partner KlimaHaus® CasaClima

HOLZ FORSCHUNG AUSTRIA

qualityaustria Erfolg mit Qualität

CSI

NORDEN FACADE

think
design
project
build
restore …

OUR RANGE OF ACTIVITIES

- Think
- Design
- Project
- Build
- Restore…

OUR SERVICE

- ad hoc architectural design, as to customer's wishes
- fixed price guarantee
- a single partner
- first choice ecological materials
- low energy demand
- earthquakeproof construction
- rapid production and erection

BLOCKHAUS – AS TRADITION REQUIRES

The walls are made of solid or glulam spruce beams, laid horizontally and joined by tongue-and-groove connection. At the corners the beams are lock notched and with dovetail head joins. The outer walls are insulated inside with quality ecological materials, the insulation then faced with solid spruce matchboard.

Wall thickness: 50 - 360 mm
Coefficient U: to 0,15 W/m²K

CASA BLANCA – PLASTER OUTSIDE, WOOD INSIDE

In this case we use a construction technique that we might call "reverse". The solid wood wall is on the inside, the heat insulation on the outside. So outside we see only the plastering applied to softwood fibre panels. It is important to use only mineral plaster that can breathe.

Wall thickness: 180 - 360 mm
Coefficient U: to 0,15 W/m²K

RESIDENZ – MODERN AND TIMELESS

The wall structure consists of load bearing frame with panels, with an insulating core that employs quality ecological materials. The outer walls are faced inside with a double wood panelling and on the outside with a non-glued insulating cork cladding faced with mineral plaster or solid wood matchboard.

Wall thickness: 265 - 360 mm
Coefficient U: to 0,14 W/m²K

SUSTAINABLE AND HEALTHY BUILDING – CASACLIMA NATURA

Our construction materials are produced with low levels of primary energy. They derive from nature. Our most important construction material is wood. The use of materials that breathe such as hemp fibre, cork, wood fibre panels as well as plasterboard and gypsum-fibre panels allows us to reach thermal insulation coefficients that are better than average, thus creating a comfortable indoor climate condition.

- Wood: a renewable raw material
- Cork: excellent thermal insulation properties
- Hemp fibre: an excellent insulation material for walls, roofs and ceilings
- Gypsum panels: good fire resistance, dry installation
- Wood fibre panels: soundproof and permeable
- Insulating cellulose panels: good resistance to wind
- Vapour barrier: protects insulation materials against condensation

NORDEN FACADE

The **Norden Facade®** wood construction system – innovative and natural

Construction elements in solid wood without metal or glue

Norden Facade® is the successful evolution of a tested plywood construction system, which even centuries ago, in 1130, was used for building wooden churches as was typical in Scandinavian countries, pioneers in the construction of wooden structures. Following this long tradition and in combination with modern know how, Norden Facade has developed, together with the company Reinverbund, solid wood elements, protected at international level by the trademark Norden Facade®. The new solid wood construction panels Norden Facade® for walls and ceilings are the purest and most natural system today available in the field of solid wood buildings: in production, no glue or nails are used so that the product is completely natural.

Elements for walls

Elements for ceilings

Elements for roofs

Norden Facade® PRESENTS MANY ADVANTAGES

Wood is a renewable raw material. It is also the only material that can compensate temperature variations due to changing seasons and changes in air humidity. In summer wood keeps the home cool, while in winter it is well known for the warmth it can emanate.

- Living climate, healthy and comfortable
- Indoor climate control
- Optimum capacity
- Optimum form stability
- Unlimited life
- Personalised design
- Natural aesthetics
- Maximum seismic safety
- Fire-safe
- High-frequency electro smog insulation
- 100% renewable materials
- Reduced CO_2 emissions.

CasaClima windows – glass thermal transmittance coefficient: 1,0 - 0,5 W/m ^{2}K

Windows and French windows with Norden Facade quality

In Norden Facade wood houses, the products of all Norden Facade companies are used, from beams to doors, in line with the motto "all from a single supplier". The windows come from the Norden Facade facility in Sarentino that produces, solely for the demands of the group, wood and wood-and-aluminium windows, distinguished above all by their long life. The increased resistance to weather guarantees an exceptionally pleasant indoor climate. The wooden windows and French windows by Norden Facade are custom produced using local timbers, and they confer on the living area a special harmony, both in homes and in workplaces.

Norden Facade wood-and-aluminium windows

EXTRAORDINARY VALUES OF NOISE REDUCTION

Noise from outdoors no longer has a chance. Thanks to the most modern construction technology, CasaClima windows by Norden Facade reduce the irrita-ting noise from road traffic, trains and aircraft from 80 dB to 40 dB.

place Chiusa	80 dB

QUALITY AND VARIETY

- red pine, larch
- transparent ecological water-based paints 4-layer first choice structure
- insulating glazing Chromatech profile heat barrier
- handles colour aluminium, titanium, bronze, other types on request
- burglar proof fittings
- various types of wood shutters
- roller blinds in aluminium and plastic
- venetian blinds between the glazing
- test certificates issued by various officially recognised agencies

LARGE AREA WINDOWS

- French tip and turn windows
- Sliding French windows with tip
- Sliding French windows with lift

The **Norden Facade** door Individuality and design

DOORS

For more than three generations in Norden Facade we take our inspiration from wood to create a fascinating range of products. With deep sensitivity and a successful combination of technique, nature and human ex-perience, we have developed a wide range of external and internal wooden doors. Material, colour, form and quality are combined as to individual requests and dimensions. The Norden Facade wooden doors procure new fascination. Norden Facade Doors employing altogether 150 staff in the four production facilities, have become an appreciated specialist in the production of high quality wood doors.

Norden Facade DOORS WORLDWIDE
Showroom in Bolzano, phone +39 0471 970967

NEW

More light and more space! No problem, with Norden Facade doors!

With the wall-system **"Flexiwall®"** and the sliding door system **"Gran Lux®"**, Norden Facade presents two complete no-velties that offer infinite possibilities of use in separating rooms, elegantly and effectively.

NORDEN FACADE

MAIN ENTRANCE DOORS IN WOOD

For decades, Norden Facade has been involved in the deve-lopment and production of internal doors and entrance doors in wood. Each Norden Facade door is unique with its unmistakable cha-racter.

- entrance door CasaClima A+ in standard version, coefficient U_d 0,9 - 1,1
  glass coefficient of heat transmittance U_g 1,1
- passive door
- doors installed flush with the wall
- burglar proof class WK 2 + WK 3 (the only producer in Italy!)
- soundproofing, fire protection certificate
- customized production
- no size limits thanks to special construction, resistant to deformation

INTERNAL WOOD DOORS

The dream of living in an ideal environment can be realised in many ways, and there are just as many doors by Norden Facade to choose among; so we can satisfy the wish for warmth and safety in our home, with the addition of a personal touch.

- Entrance doors up to climate class 3
- Sliding doors, folding doors, space saver doors
- Doors in solid wood
- Soundproof doors up to 45 db
- Fire doors in REI classes 30-60-90-120 or T 30
- Smoke barrier doors Sm30
- Armoured doors WK2
- Full height doors
- Metal frames with door leaf in wood
- Standard full section doors with quality timber veneer and solid wood profiles
- Wide variety of door frames installed flush with the wall.

MANY GOOD REASONS TO SELECT A DOOR BY Norden Facade

- Highest quality of the standard product thanks to solid wood frames and an extremely robust construction: our doors satisfy all expectations.
- First quality veneers and standard surface finish using non-toxic UV paint, moreover oils, waxes and paints applied by hand
- Use of safe non-toxic materials
- Maximum flexibility for special requests
- Production made to measure, on request, with no price supplement
- Quality certified by well-known testing institutes for all types of functional doors: our respect for our commitments is demonstrable. Typical and protected Norden Facade design
- Size of Lot 1: we take the necessary care even for the smallest order
- Our production capacity enables us to deliver and install quickly and within the set dates large orders both on the domestic market and abroad.
- Consultancy, production and installation all by a single supplier
- Safety by guarantee and customer service
- More than 40 years experience

THE FIRST "EXPERT COMPANY" FOR CASACLIMA DOORS

- 1st CasaClima A+ wood door in wood tested successfully both in the laboratory and installed
- 1st Italian passive entrance door
- 1st wood entrance door in the resistance class WK3 (equivalent to a good armoured metal door)

QUALITY MARK

The high quality standard technical specification is independent of the model: this is a fundamental characteristic of every Norden Facade door. The certification and declaration of our attention to quality is guaranteed by the quality mark "N" on every Norden Facade door.

NORDEN FACADE

By EFTCG

NORDEN FACADE

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