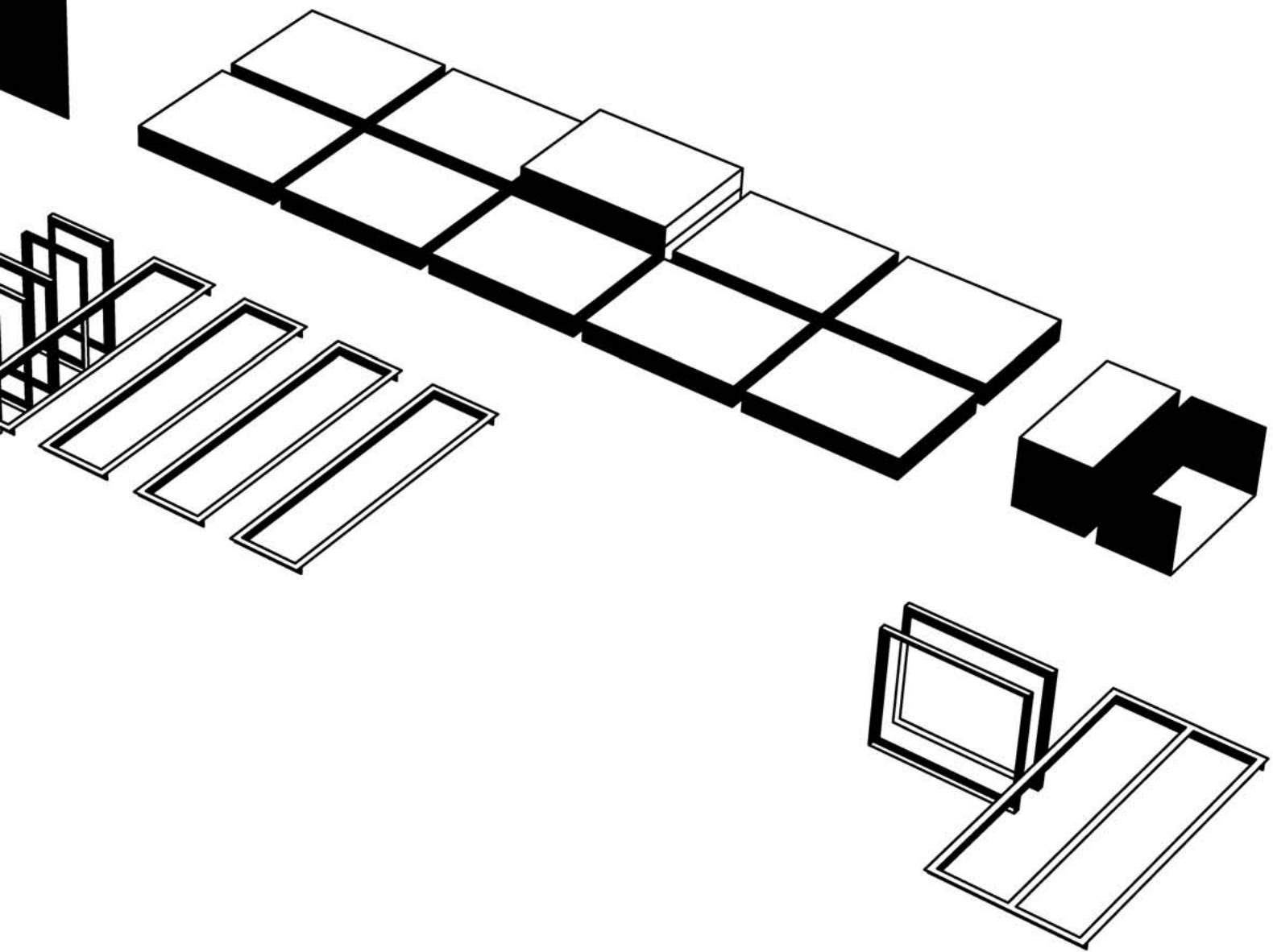


AlpHouse - Building Culture and Energyefficiency

Fair Stand Handbook



AlpHouse.eu
tradition | competence | innovation

AlpHouse
Alpine Building Culture and Energy Efficiency



AlpHouse is funded by the Alpine Space Programme of the European Union (EU)



and by the Working Group of Alpine Regions (ArgeAlp)

PROJECT PARTNERS:



Handwerkskammer für München und Oberbayern (Leadpartner)



BAUakademie Lehrbauhof Salzburg



Bayerische Architektenkammer, mit Technische Universität München



Chambre de Commerce et d'Industrie de la Drôme, avec Neopolis



Energieinstitut Vorarlberg



ERSAF Ente Regionale per i Servizi all'Agricoltura e alle Foreste, Regione Lombardia



Région Autonome Vallée d'Aoste – Regione Autonoma Valle d'Aosta avec - con COA Energia Finaosta



Regione del Veneto, Direzione Urbanistica e Paesaggio



Research Studios Austria ForschungsgesmbH, Studio iSpace

CONTENT

Idea and Messages

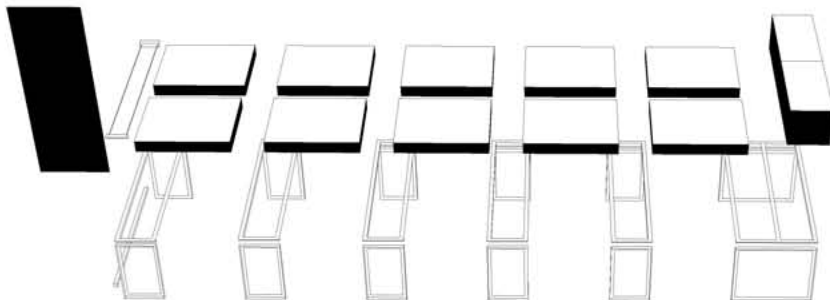
- 4 The AlpHouse Fair Stand
- 6 Creating Awareness of Alpine Building Culture
- 8 Working with Spatial Strategies
- 10 Utilisation of Vernacular Intelligence
- 12 Combining Material Culture and Technology

14 **Fair Stand Tour Plan**

16 **Facts and Figures**

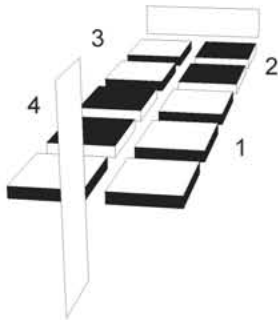
18 **Instructions for Assembly**

20 **Adaption and Activities** for Regional Installations



THE ALPHOUSE FAIR STAND

Alpine Building Culture and Energyefficiency



The AlpHouse Fair Stand informs about the transnational project AlpHouse, running from 2009 – 2012. The stand focuses on the analysis work of the project partners in 9 Alpine regions that aims at identifying challenges and chances for a new combination of Alpine building culture and energy efficiency.

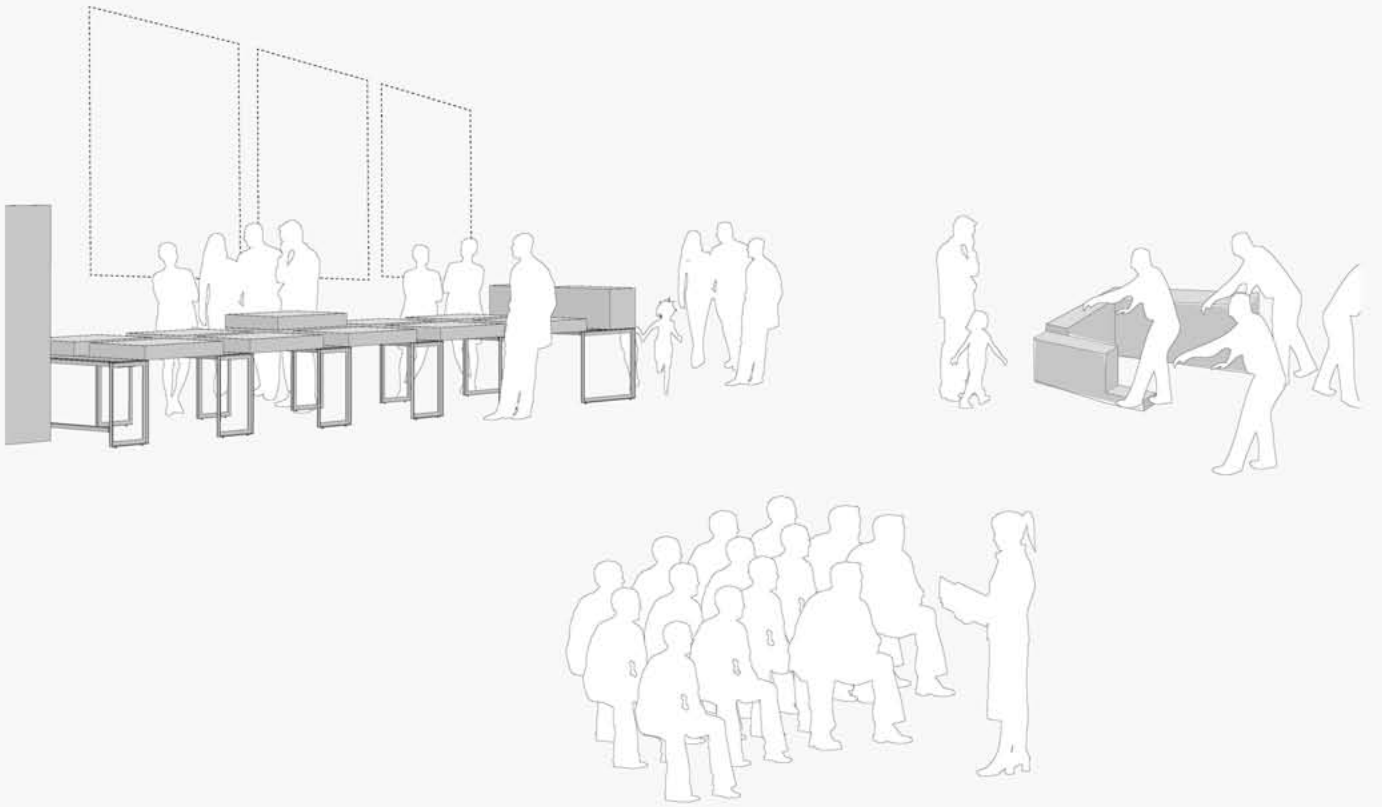
Further project steps of AlpHouse in view of communication and training will be implemented during the tour of our stand throughout the regions of the project partners and on fair trades; the stand itself will accompany a number of events.

AlpHouse Project Aims

The Alpine Space comprises unique natural and cultural landscapes. These have produced a wide range of characteristic building types, which emerged out of a long-term adaption to climatic and geographic conditions. Today they form an important element of the attractiveness of the Alps as a space for living and recreation. If we want to preserve and use this cultural heritage, we must bring it into alignment with the challenges and needs of today. We should try to understand the principles of traditional alpine architecture, integrate them in present-day construction, and develop them further. In this way traditional architecture can also be combined with modern technologies and requirements for energy efficiency.

AlpHouse aims at promoting such a farseeing approach to renovations in the Alpine Space. The project explores and collects knowledge and skills in the various regions and passes them on to craftsmen, architects, planners, and decision makers – so that they can develop individual local solutions oriented towards a common understanding of quality.

- The 4 fields of topics:
1 Alpine Building Culture
2 Spatial Strategies
3 Vernacular Intelligence
4 Material Culture and Technology



AlpHouse Fair Stand

Education

Crafts



CREATING AWARENESS OF ALPINE BUILDING CULTURE

9 Pilot regions | 15 Pilot villages | 30 Pilot buildings



The alpine space as field of action of alpine building culture is marked by great differences and is formed by buildings, settlements and land use. The term Alpine Building Culture does not dissociate building in the Alps from the adjoining regions; it is about mutual challenges, lying in the geographical escalation of trends and a possible transferability of ideas and procedures.

Similar requirements in extreme climatic and topographic situations and a limited area for settlement have always marked alpine building. Because of cultural factors, micro climates, social and economical conditions, regionally distinct forms of building have arisen: this variety is an essential part of the Alps.,

Material and immaterial values are attached to the existing buildings and settlements and are decisive for local identities and economies, for tourism, and for the ecologic conversion of the Alps as settlement area.

Given that 90 % of the building stock in the Alps has been erected before the introduction of energetic standards, it plays an important role when it comes to introducing renewable energies, in view of generation of energy and energy savings. Nonetheless, AlpHouse emphasises that old buildings have always been orientated to energy questions; and proposes to rediscover this knowledge.

The illustrated pilot buildings are categorized in four groups:

above:
Scale of Pilots and transferability

To the right:
15 PILOT VILLAGES
Situational challenges and chances for alpine villages

30 PILOT BUILDINGS
Regionally varying focuses of renewal show the differences of the building stock

Vernacular buildings, intensive use

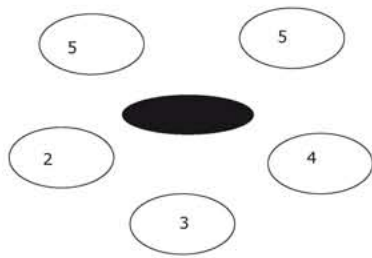
Buildings of different ages, temporary use

Buildings of different ages, often post-agrarian, partial use of large volumes

Residential buildings from the 1950s to the 1970s, intensive use

WORKING WITH SPATIAL STRATEGIES

Settlement Development and Energy | Postagrarian Buildings



Houses and settlements in the Alps are complex bodies, formed by utilisation, design, construction and infrastructure. Frequencies, intensities, types and forms of their use will play a more significant role in the future given the demographic changes. Exposition, orientation and compactness will be identified as main subjects for buildings and settlements. Detecting potentials and limits of the building stock and its context is the basis of spatial concepts on different levels: from construction components and their combination, layouts and sections of buildings to villages and valleys. AlpHouse elaborates spatial strategies as a procedure to harness potentials of the existing buildings and settlements and sees at its basis a planning necessity.

The interfaces between planning disciplines, such as architecture, settlement planning, urban and rural development, energy expertise, regional development and also monument preservation have not yet been designed for a coherent operative approach the building stock. The analysed pilots reveal gaps between the procedures on different levels of measures (regions, towns, buildings, and details). AlpHouse proposes to optimise interaction between the actors of building culture as well as a cross-scale planning approach.

Above:

1 Spatial Strategy (Capacity of existing architecture, Context of place, Alternative Concepts)

2 Costs and Timeliens

3 Use; Intesity, frequency and modes

4 Rules, Laws, Incentives

5 Natural Factors (climate, Topography)

6 Construction Material, Processing Factors

To the right:

SETTLEMENT DEVELOPMENT AND ENERGY

In the village Fläsch a new spatial strategy creates the basis for energy efficiency

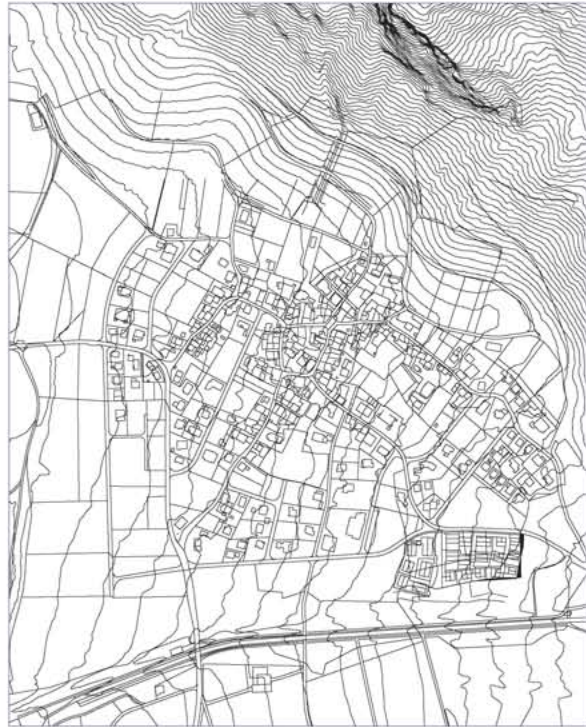
POSTAGRARIAN BUILDINGS

The subject of dealing with postagrarian structures, which is of great importance for the Alpine Space, requires spatial concepts



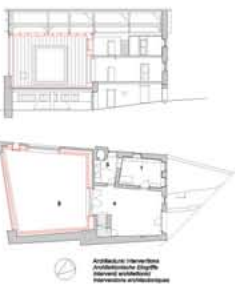
Land planning for settlement based on the community's perception
 Abgrenzung der Ortschaft auf Grundlage der Wahrnehmung der Bevölkerung
 Planung der Ortschaft auf Grundlage der Wahrnehmung der Bevölkerung
 Planung der Ortschaft auf Grundlage der Wahrnehmung der Bevölkerung

View from the village as economic factor
 Wirtschaftliche in der Ortschaft als Wirtschaftsfaktor
 Wirtschaftliche in der Ortschaft als Wirtschaftsfaktor
 Wirtschaftliche in der Ortschaft als Wirtschaftsfaktor

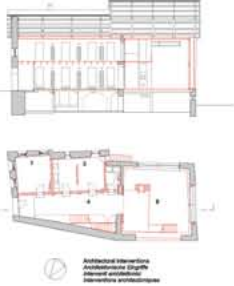


- Beste Ribau**
1. Diverse settlement clusters, look for energy efficiency
 Diversität der Ortschaft, Suche nach Energieeffizienz
 Diversität der Ortschaft, Suche nach Energieeffizienz
 2. Photovoltaic buildings, potential of solar
 Photovoltaische Gebäude, Potential der Photovoltaik
 Photovoltaische Gebäude, Potential der Photovoltaik
 3. Landscape of the village, new paths for view and full trees
 Landschaft der Ortschaft, neue Wege für Sicht und volle Bäume
 Landschaft der Ortschaft, neue Wege für Sicht und volle Bäume

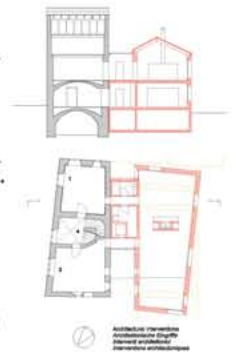
Information B
 Hill in the form of a settlement in the town, as living space
 Hügel in der Ortschaft - Siedlungsform im Wohnort
 Hügel in der Ortschaft - Siedlungsform im Wohnort



Information B
 Building of the spatial composition of houses and barns, as working and living space
 Gebäude der räumlichen Komposition von Wohnort und Stall
 Gebäude der räumlichen Komposition von Wohnort und Stall



Information L
 Concrete volume use and location - addition of wooden use
 Konkrete Volumen Nutzung und Ortung - für Holzstruktur Zusatz
 Konkrete Volumen Nutzung und Ortung - für Holzstruktur Zusatz



Information B
 Concrete volume use and location - addition of wooden use
 Konkrete Volumen Nutzung und Ortung - für Holzstruktur Zusatz
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UTILISATION OF VERNACULAR INTELLIGENCE

Town Centres and Energy | Vernacular Building Type

AlpHouse considers the buildings and settlements in the Alps as stimulators for cultural and economical aspects of building. This new evaluation concentrates on vernacular buildings and settlements: they can be understood as database of building culture. Vernacular construction offers models of how buildings adapt to climate and topography, how they use energy efficiently and how they harness materials efficiently. This vernacular intelligence has at first nothing to do with building styles but with structural factors on all three project levels:

The regional level with cycle systems and spatial structures,

The village level with its compactness and exposition,

The building and detail level with spatial organisation in layouts and sections, with materials and their combination.

The energetic knowledge of vernacular buildings indicates to ask for standards and comfort: it can even stimulate innovations for standardised procedures of energy efficiency.

To the right:

TOWN CENTRES AND ENERGY

The spatial and energetic model of dense central settlement cores

VERNACULAR BUILDING TYPES

The Alps' vernacular buildings are a database of intelligent behaviour towards surroundings and natural forces

COMBINING MATERIAL CULTURE AND TECHNOLOGY

The House as System | Material and Region

Not all vernacular technologies have survived industrialisation, they have not been fixed standards but a developing field of knowledge and competences. Nowadays lifestyle, ideas of comfort, of public and private space are very different than they have been before 1918. However, the aim of AlpHouse is to re-appropriate vernacular technologies and to reassess them where they are necessary for the building stock. The paradigm of repair is an ecologic process to reduce the use of energy and material – but, what is more, reparation is a cultural value.

The AlpHouse approach can thus be described as counter stream operation: it is about adaption and decisions to use technologies and materials from the field of new constructions (e. g. passive house elements, controls, fabrication methods, tools, etc.), but also about rediscovering vernacular materials and technologies and even their transfer to the field of new construction (e.g. solid wood, chalk, clay).

Because of the differentiated nature of the alpine building stock, a wide spectrum of techniques can be collected and developed: in the areas of structural design, expansion, heating and ventilation, calculation and design tools. They have to correspond to the different steps of energy saving, which can be achieved within the building stock with reasonable financial and ecological effort.

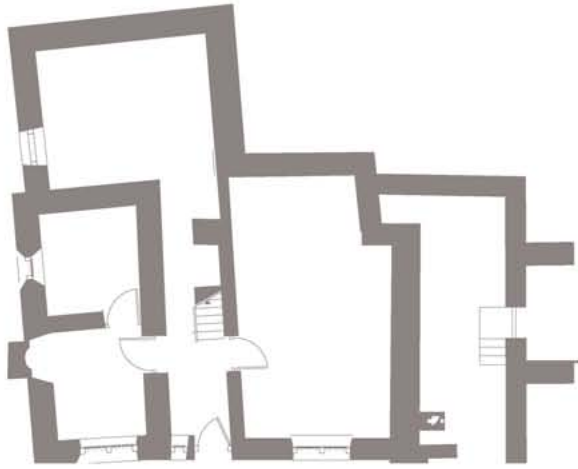
To the right:

THE HOUSE AS SYSTEM

The pilot building Welf in the Aosta Valley demonstrates the importance of joining building elements and spatial complexity

MATERIAL AND REGION

In Vrin the building material wood motivates regional cycle systems



Small houses of mountain pine-hull building
Site of wood and stone
Model: for construction / Holzschale
Die Verwendung von Stein und Holz
Model: for construction / Holzschale
Die Verwendung von Stein und Holz
Model: for construction / Holzschale
Die Verwendung von Stein und Holz

- Stone construction
Zementmörtel / construction of stone
- Wood construction
Holzschalung / construction of wood
- Stairs
Treppen / stairs
- Stairs
Treppen / stairs

Architect: Christoph Frei
Architect: Christoph Frei
Architect: Christoph Frei

PS 0111 Tannengasse Einhof

PS 0212 Einhofhof Gasthof E.

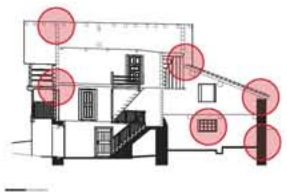
PS 0211 Untermarkt

PS 0411 Casa G.

PS 0511 Haus Riber

PS 0811 Ferma

PS 0911 Maison Cecconi



Model: First building House No. 1, S. 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 213, 214, 215, 216, 217, 218, 219, 220, 221, 222, 223, 224, 225, 226, 227, 228, 229, 230, 231, 232, 233, 234, 235, 236, 237, 238, 239, 240, 241, 242, 243, 244, 245, 246, 247, 248, 249, 250, 251, 252, 253, 254, 255, 256, 257, 258, 259, 260, 261, 262, 263, 264, 265, 266, 267, 268, 269, 270, 271, 272, 273, 274, 275, 276, 277, 278, 279, 280, 281, 282, 283, 284, 285, 286, 287, 288, 289, 290, 291, 292, 293, 294, 295, 296, 297, 298, 299, 300, 301, 302, 303, 304, 305, 306, 307, 308, 309, 310, 311, 312, 313, 314, 315, 316, 317, 318, 319, 320, 321, 322, 323, 324, 325, 326, 327, 328, 329, 330, 331, 332, 333, 334, 335, 336, 337, 338, 339, 340, 341, 342, 343, 344, 345, 346, 347, 348, 349, 350, 351, 352, 353, 354, 355, 356, 357, 358, 359, 360, 361, 362, 363, 364, 365, 366, 367, 368, 369, 370, 371, 372, 373, 374, 375, 376, 377, 378, 379, 380, 381, 382, 383, 384, 385, 386, 387, 388, 389, 390, 391, 392, 393, 394, 395, 396, 397, 398, 399, 400, 401, 402, 403, 404, 405, 406, 407, 408, 409, 410, 411, 412, 413, 414, 415, 416, 417, 418, 419, 420, 421, 422, 423, 424, 425, 426, 427, 428, 429, 430, 431, 432, 433, 434, 435, 436, 437, 438, 439, 440, 441, 442, 443, 444, 445, 446, 447, 448, 449, 450, 451, 452, 453, 454, 455, 456, 457, 458, 459, 460, 461, 462, 463, 464, 465, 466, 467, 468, 469, 470, 471, 472, 473, 474, 475, 476, 477, 478, 479, 480, 481, 482, 483, 484, 485, 486, 487, 488, 489, 490, 491, 492, 493, 494, 495, 496, 497, 498, 499, 500, 501, 502, 503, 504, 505, 506, 507, 508, 509, 510, 511, 512, 513, 514, 515, 516, 517, 518, 519, 520, 521, 522, 523, 524, 525, 526, 527, 528, 529, 530, 531, 532, 533, 534, 535, 536, 537, 538, 539, 540, 541, 542, 543, 544, 545, 546, 547, 548, 549, 550, 551, 552, 553, 554, 555, 556, 557, 558, 559, 560, 561, 562, 563, 564, 565, 566, 567, 568, 569, 570, 571, 572, 573, 574, 575, 576, 577, 578, 579, 580, 581, 582, 583, 584, 585, 586, 587, 588, 589, 590, 591, 592, 593, 594, 595, 596, 597, 598, 599, 600, 601, 602, 603, 604, 605, 606, 607, 608, 609, 610, 611, 612, 613, 614, 615, 616, 617, 618, 619, 620, 621, 622, 623, 624, 625, 626, 627, 628, 629, 630, 631, 632, 633, 634, 635, 636, 637, 638, 639, 640, 641, 642, 643, 644, 645, 646, 647, 648, 649, 650, 651, 652, 653, 654, 655, 656, 657, 658, 659, 660, 661, 662, 663, 664, 665, 666, 667, 668, 669, 670, 671, 672, 673, 674, 675, 676, 677, 678, 679, 680, 681, 682, 683, 684, 685, 686, 687, 688, 689, 690, 691, 692, 693, 694, 695, 696, 697, 698, 699, 700, 701, 702, 703, 704, 705, 706, 707, 708, 709, 710, 711, 712, 713, 714, 715, 716, 717, 718, 719, 720, 721, 722, 723, 724, 725, 726, 727, 728, 729, 730, 731, 732, 733, 734, 735, 736, 737, 738, 739, 740, 741, 742, 743, 744, 745, 746, 747, 748, 749, 750, 751, 752, 753, 754, 755, 756, 757, 758, 759, 760, 761, 762, 763, 764, 765, 766, 767, 768, 769, 770, 771, 772, 773, 774, 775, 776, 777, 778, 779, 780, 781, 782, 783, 784, 785, 786, 787, 788, 789, 790, 791, 792, 793, 794, 795, 796, 797, 798, 799, 800, 801, 802, 803, 804, 805, 806, 807, 808, 809, 810, 811, 812, 813, 814, 815, 816, 817, 818, 819, 820, 821, 822, 823, 824, 825, 826, 827, 828, 829, 830, 831, 832, 833, 834, 835, 836, 837, 838, 839, 840, 841, 842, 843, 844, 845, 846, 847, 848, 849, 850, 851, 852, 853, 854, 855, 856, 857, 858, 859, 860, 861, 862, 863, 864, 865, 866, 867, 868, 869, 870, 871, 872, 873, 874, 875, 876, 877, 878, 879, 880, 881, 882, 883, 884, 885, 886, 887, 888, 889, 890, 891, 892, 893, 894, 895, 896, 897, 898, 899, 900, 901, 902, 903, 904, 905, 906, 907, 908, 909, 910, 911, 912, 913, 914, 915, 916, 917, 918, 919, 920, 921, 922, 923, 924, 925, 926, 927, 928, 929, 930, 931, 932, 933, 934, 935, 936, 937, 938, 939, 940, 941, 942, 943, 944, 945, 946, 947, 948, 949, 950, 951, 952, 953, 954, 955, 956, 957, 958, 959, 960, 961, 962, 963, 964, 965, 966, 967, 968, 969, 970, 971, 972, 973, 974, 975, 976, 977, 978, 979, 980, 981, 982, 983, 984, 985, 986, 987, 988, 989, 990, 991, 992, 993, 994, 995, 996, 997, 998, 999, 1000



PS 0111
Project of Stone Construction and mountain
construction and barn buildings. The interior and
exterior of the building is made of stone and
wood. The building is made of stone and wood.
Project of Stone Construction and mountain
construction and barn buildings. The interior and
exterior of the building is made of stone and
wood. The building is made of stone and wood.

1	2	3	4	5	6	7	8	9	10
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61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100



FAIR STAND TOUR PLAN

Visiting events

For the updated tour plan visit the news section on AlpHouse.eu.

Fair Stand Opening
Klimawoche - Altbautag, public conference
HWK and ByAK | Traunstein (D)

Alpine Space Programme, Mid Term Conference
HWK | Grenoble (F)

PM4 public conference
Neopolis | Valence (F)

Ballenberg Jubilee
Haus Ballenberg | Ballenberg (CH)

Public conference, Exhibition Pilot village analysis
EIV | Andelsbuch (A)

Qualification course architects and planners
COA Energia | Aosta (I)

PM5 public conference
Regione Veneto | Cortina d'Ampezzo (I)

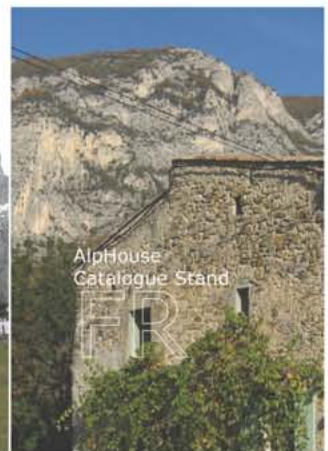
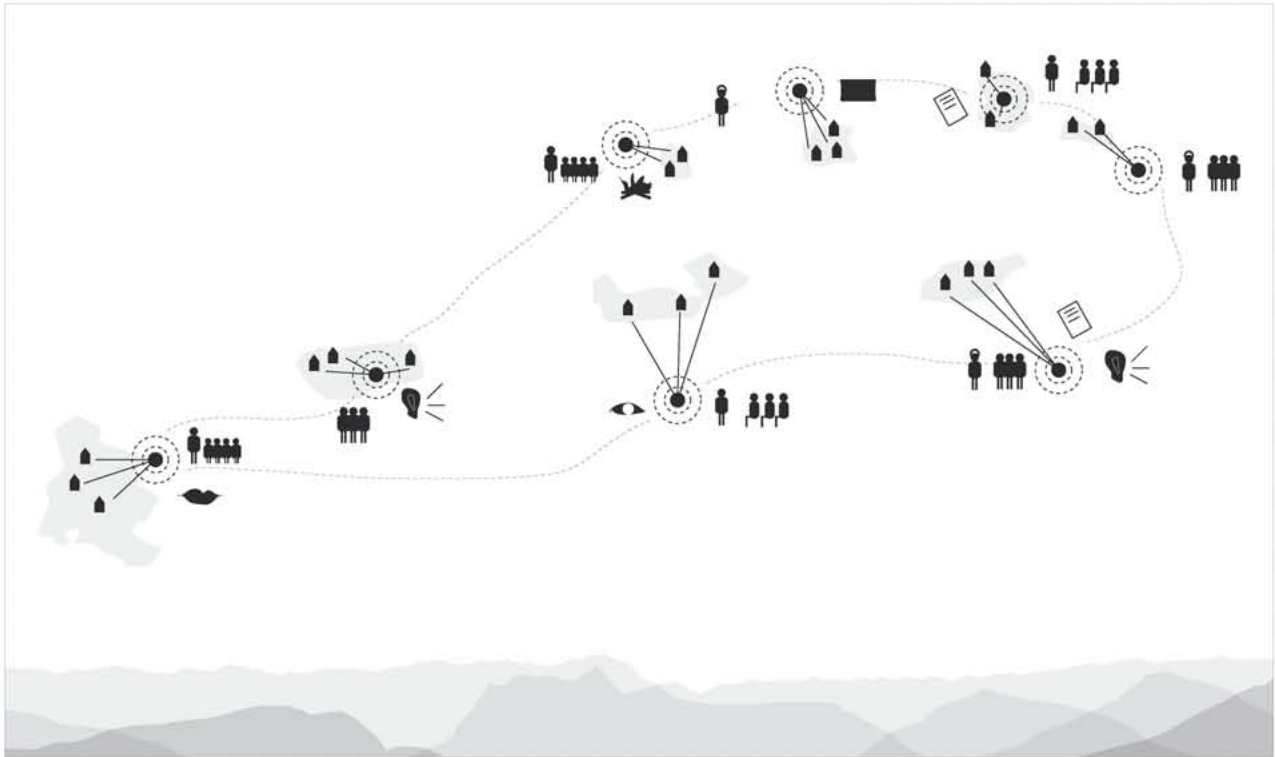
Fair Monumenta
LBH | Salzburg (A)

Exhibition Pilot village analysis
LBH | Kuchl (A)

Fair
Regione Veneto | Longarone (I)

Fair Handwerksmesse
HWK | München D

PM final public conference
HWK and ByAK | München (D)



Althouse Fair Stand Catalogue, in 4 languages

FACTSHEET

Technical Data

Weight ca.

160 kg	Wood
140 kg	Steel
300 kg	Total

Measures max.

1,60 m	Width
7,50 m	Length max. adjustable
2,00	Hight

Parts

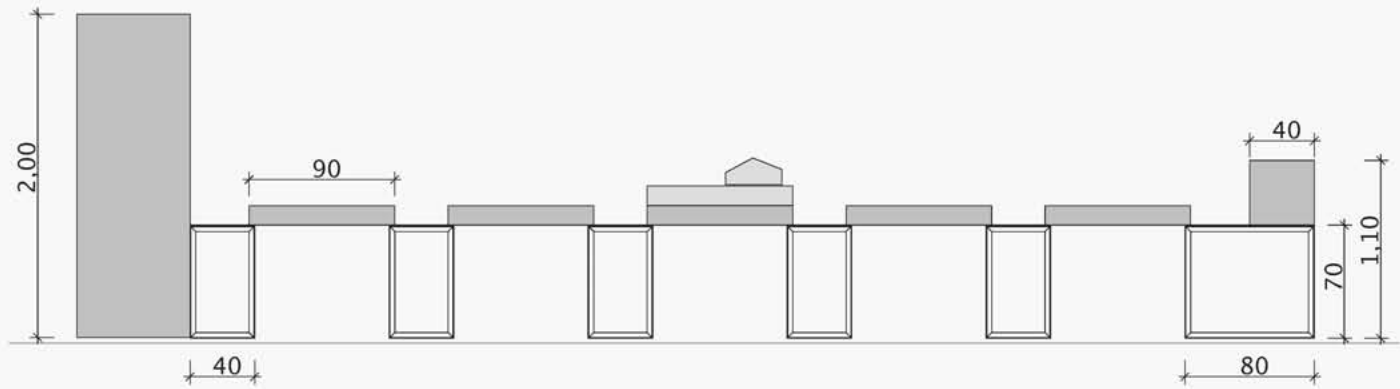
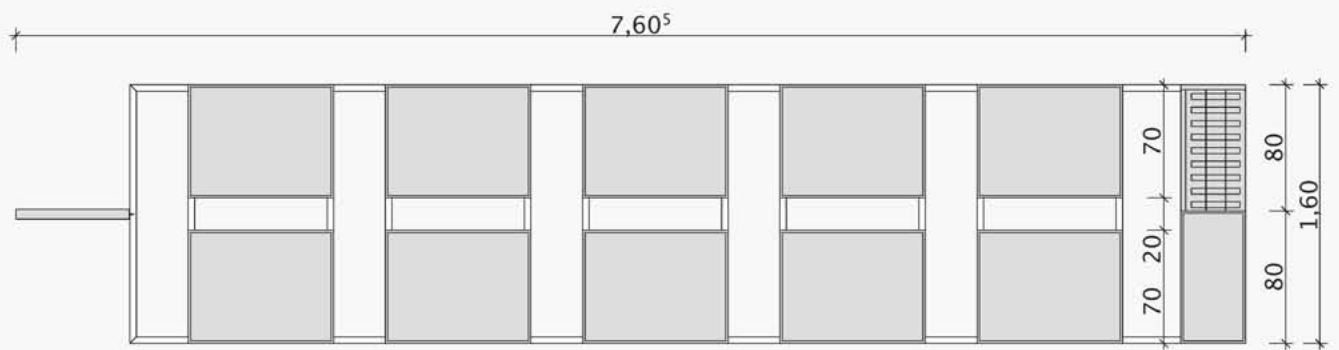
12	Wood
20	Steel frames
1	Stele
48	6 mm Hexagon socket screws (steel -wood)
48	Thin screw nuts (steel-wood)
26	6 mm Hexagon socket screw flat head (steel-steel)
6	Screws Wood 4,5 mm (for BooksBox1 and 2)
25	„Feet“ for adjusting the hight
1	Modell "House Welf" inside BooksBox1

Tools

6 mm Hexagon socket screwdriver
Screw nut tool
4,5 mm Star head screwdriver
Water level for adjusting the hight
Cutter

Transportation

3 EURO-PALETTE
3 wooden transportation boxes
Strong broad tape
Air bubble wrap



AlpHouse Fair Stand measurements in cm

INSTRUCTIONS FOR ASSEMBLING

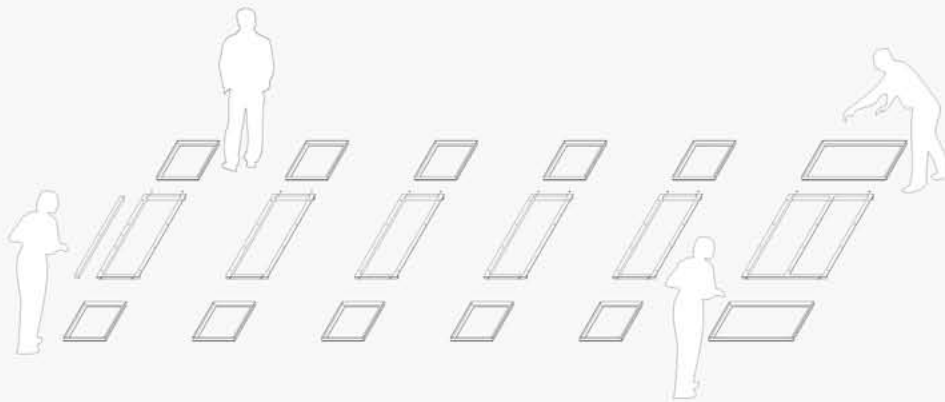
The AlpHouse Stand Manual

Put the parts out of the transportation boxes.
Fold the air bubble wrap nicely and keep it for later use.

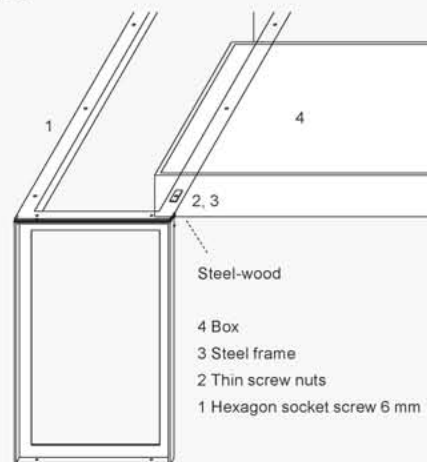
- Step 1** Unwrap and position the steel elements
SPECIAL attention to the first (steel) and the last (booksboxes) steel frames.
- Step 2** Two persons screw one steel stand with 6mm hexagon
Steel-steel socket screws flat head.
- Step 3** Screw the wooden boxes on the steel stands in the right
Steel -wood order with 6mm hexagon socket screw.
- Steel "feet"** Tighten with upper screw nut.
Adjust Height with lower screw nut.
- Step 4** Flip the boards around by putting a stick with a soft top
Wooden boxes (cloth, paper) through a hole in the bottom of the box and lift the board.
- Step 5** Modell board nr. 8
Steel -wood A part of the model is inside BooksBox1.
- Finished** Stand cannot be moved anymore

When disassembling the AlpHouse Fair Stand, please check if anything is missing.

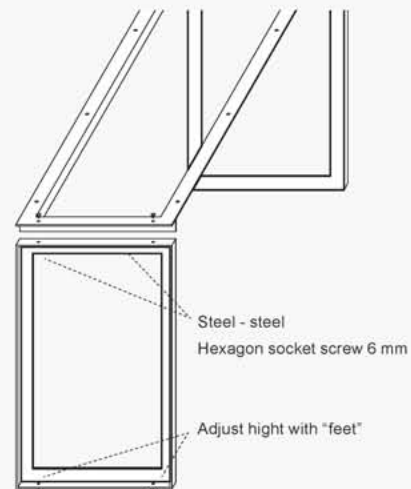
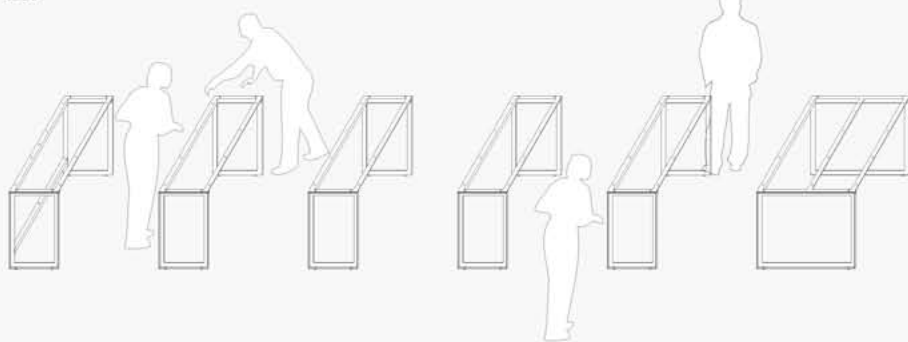
1.



3.



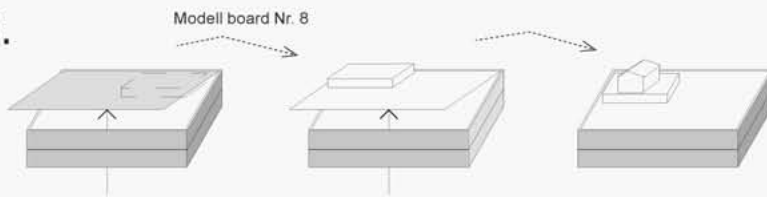
2.



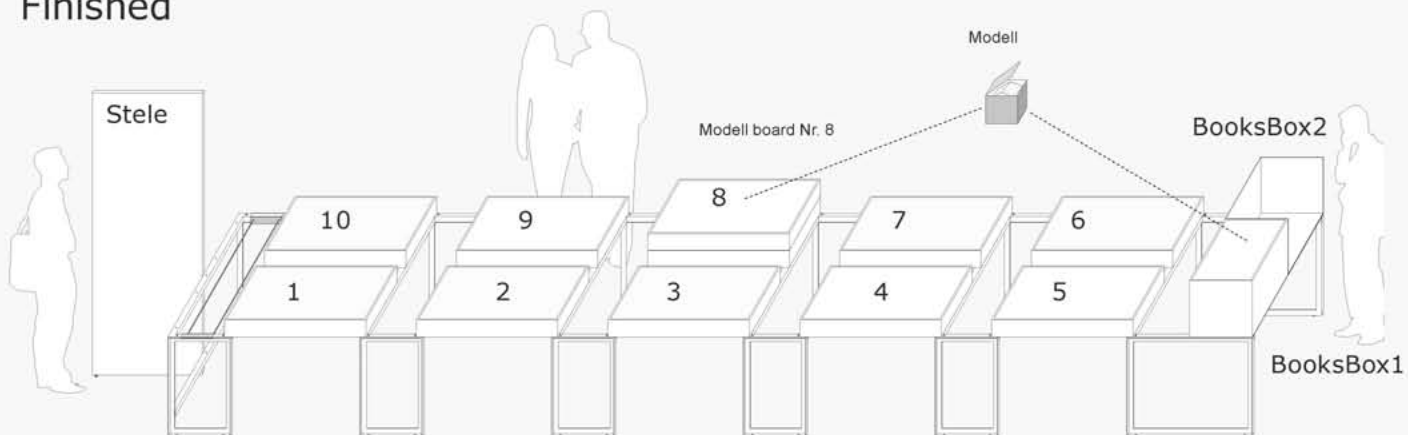
4. Flip board around gently



5.

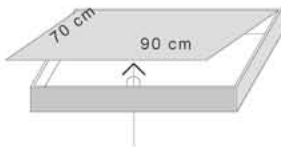


Finished



ADAPTION

Add and change contents



Boards

Boards can be replaced and individually designed after having consulted the carpenter from HWK Bildungszentrum Traunstein.

Length 87 cm ca

Width 97 cm ca

Walls and Floors

Detailed plans of Pilot villages and buildings

Photographs

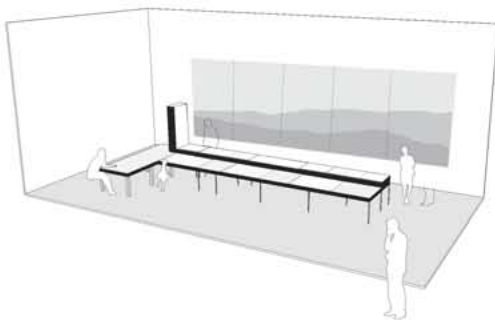
Analysis and development material

Craft work drawings

Local materials and technologies

Adaption of innovative technologies

Building parts and joints



ACTIVITIES

Learn Discuss Adopt Develop



Communication

Presentation

Conference



Exhibition

Lecture

Books

Film

TV



Education

Guided tour to Pilots, best practices

Courses for young people

Courses with experts

Interviews

Research

Games



Crafts

Learning from vernacular constructions

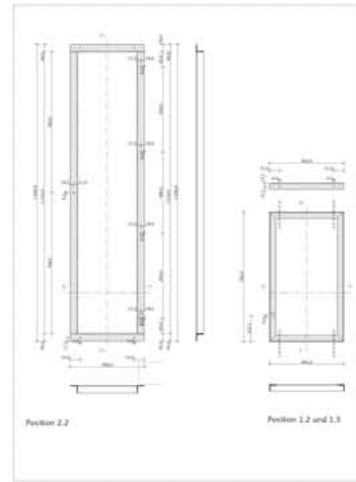
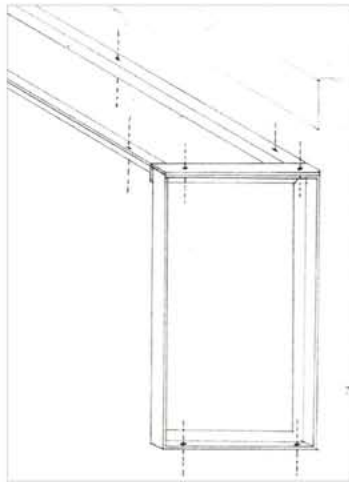
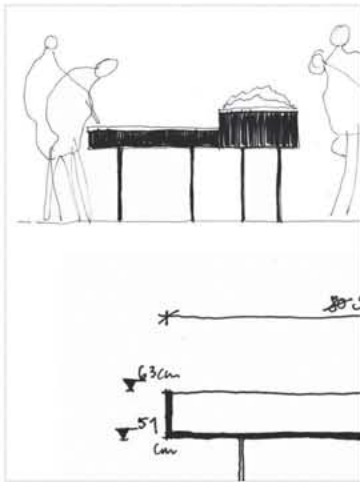
Live building site

On site research



Fair Stand

AlpHouse Approach



Upper row:
 October 2010 - June 2011
 Concept and design of the AlpHouse Fair Stand
 TUM Landraum | München (D)

Lower row:
 March - June 2011
 Construction of the AlpHouse Fair Stand
 HWK Bildungszentrum Traunstein (D)

10.6.2011
 Fair Stand opening
 Klimawoche - Altbautag, public conference
 HWK and ByAK | Traunstein (D)

ALPHOUSE FAIR STAND HANDBOOK

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FAIR STAND TABLES:

9 PILOT REGIONS

edited by RSA iSPACE. Data sources: USGS - GTOPO30
DEM, Alpine Convention - Perimeter GIS data, Alpine Space
Programme - Programme area, EuroGeographics for the admin-
istrative boundaries - NUTS boundaries, ESRI background data
- Country boundaries, AlpHouse project - Region boundaries

14 PILOT VILLAGES

edited by TUM Landraum. Data sources: Bavarian State Of-
fice for Survey and Geoinformation, RSA iSpace, Regione del
Veneto, Energieinstitut Vorarlberg, ERSAP Ente Regionale per
i Servizi all'Agricoltura e alle Foreste Lombardia, COA Energia
Finaosta, Neopolis

30 PILOT BUILDINGS

Photography: BAUakademie Lehrbauhof Salzburg, Regione del
Veneto, Energieinstitut Vorarlberg, ERSAP Ente Regionale per
i Servizi all'Agricoltura e alle Foreste Lombardia, COA Energia
Finaosta, Neopolis, TUM Landraum

SETTLEMENT DEVELOPMENT AND ENERGY

edited by TUM Landraum. Data source: Gemeinde Fläsch, Lutz
Schmid Ingenieure AG, Prof. Christian Wagner, field research
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POST-AGRARIAN BUILDINGS

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TOWN CENTRES AND ENERGY

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ces: Neopolis, ERSAP Ente Regionale per i Servizi all'Agricoltura
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Geoinformation, field research TUM Landraum

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Foreste Lombardia, arch. Chiavenuto, COA Energia Finaosta,
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THE HOUSE AS SYSTEM

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MATERIAL AND REGION

Photography: Laura Egger for Landraum

ALPHOUSE COLUMN

Photography: Klaus Leidorf for Landraum

Overview of the AlpHouse pilot regions and pilot villages:

XX pilot region

XXX pilot village

01 Tennengau (A)

011 Kuchl

02 Traunstein (D)

021 Schleching

03 Garmisch-Partenkirchen (D)

031 Murnau

04 Provincia di Belluno, parte settentrionale (I)

041 Selva di Cadore

042 Vodo di Cadore

05 Bregenzwald (A)

051 Andelsbuch

06 Comunità montana Valtellina di Sondrio (I)

061 Chiesa in Valmalenco

062 Chiuro

063 Ponte in Valtellina

07 Vallée d'Aoste - Valle d'Aosta (I)

071 Gressoney-La-Trinité

072 Gressoney-Saint-Jean

073 Champorcher

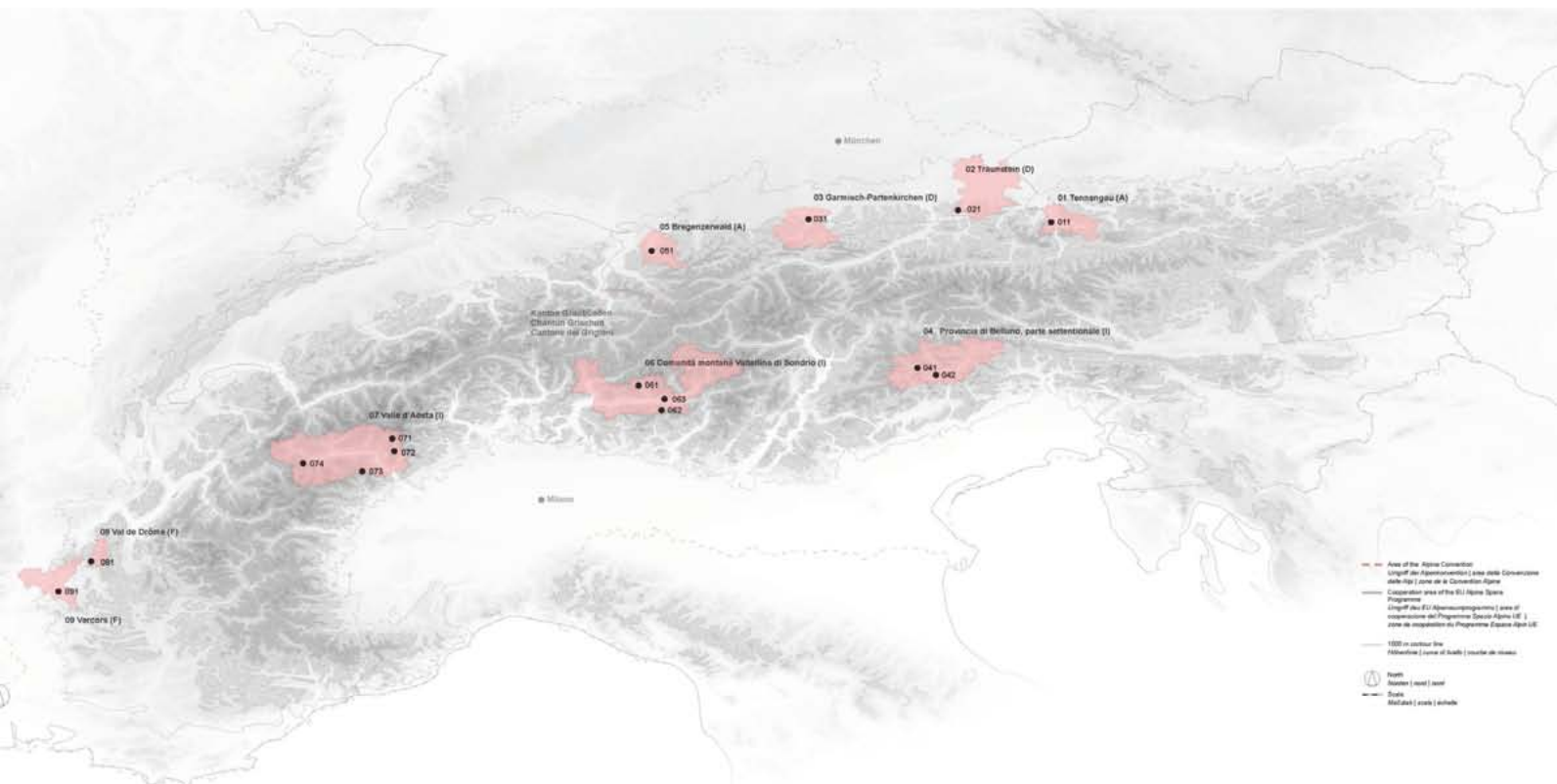
074 Avise

08 Val de Drôme (F)

081 Saou

09 Vercors (F)

091 Vassieux-en-Vercors



PR 01 Tennengau (A) PV 011 Kuchl R Salzburg	PR 03 Garmisch-Partenkirchen (D) PV 031 Murnau R Oberbayern	PR 05 Bregenzwald (A) PV 051 Andelsbuch R Vorarlberg	PR 07 Valle d'Aosta (I) PV 071 Gressoney-La-Trinité PV 072 Gressoney-Saint-Jean PV 073 Champorcher PV 074 Avise R Valle d'Aosta	PR 09 Vercors (F) PV 091 Vassieux-en-Vercors R Rhône-Alpes
PR 02 Traunstein (D) PV 021 Schleching R Oberbayern	PR 04 Provincia di Belluno, parte settentrionale (I) PV 041 Selva di Cadore PV 042 Vodo di Cadore R Veneto	PR 06 Comunità montana Valtellina di Sondrio (I) PV 061 Chiesa in Valmalenco PV 062 Chiuro PV 063 Ponte in Valtellina R Lombardia	PR 08 Val de Drôme (F) PV 081 Saou R Rhône-Alpes	

Area of the Alpine Convention
L'aire de l'Accord européen / area della Convenzione delle Alpi / zone de la Convention Alpine
Cooperation area of the EU Alpine Space Programme
L'aire d'opération du Programme Spatial Alpes UE / area of cooperation of the Programme Spatial Alpes UE / zone de coopération du Programme Spatial Alpes UE
1000 m contour line
1000m (contour line)
North
Scale
Map data: swiss / alpine

AlpHouse start with
Aktionsregion / Aktionsregion / action region
PV Pilot Village
Pilot Village (commune pilot) / commune pilot
PR Pilot Region (EUFS 2 or smaller)
Pilot Region / région pilote / region pilot
Region (EUFS 3)
Region / région / region