

NEXT Timber

Existing web tools for timber construction

Which tools (software) are available today for execution of timber buildings in different countries?



SP Technical Research Institute of Sweden

Overview – Classification of webtools

Countries:

Sweden, Norway, Denmark, Finland, Austria, Germany, France, Great Britain

Owners/Publishers:

- Wood industry associations (Svenskt Trä, Puuinfo, etc.)
- Wood industry, info and data for their own products
- Software companies



Type of data and details:

- Examples, advises based on experience = best practices
- Approved, tested and verified = should be performed as described to meet the requirements

Accessibility:

- Freely accessed without registering
- Technical areas on the website for paying members only
- Annual subscription for each program



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Overview

Type of data:

Info = General information and references to codes and standards

Des = Drawings and descriptions of details

Tab = Design tables for different spans, acoustic values for different details, etc.

CAD = CAD files available

Calc = Calculation programs for different spans etc.



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Sweden

TräGuiden	www.traguiden.se	Swedish Wood	Free	Info/Des/Tab/CAD	F, A, S, V, T, M
Byggbeskrivningar	www.svenskttra.se	Swedish Wood	Free	Info/Des/Tab	
Trärådhuset	www.svenskttra.se	Swedish Wood	Free	Des/Calc	
Att välja trä	www.svenskttra.se	Swedish Wood	Free	Info	
Lathunden	www.svenskttra.se	Swedish Wood	Free	Des/Tab	
Limträhandboken	www.svenskttra.se	Swedish Wood	Free	Info/Des/Tab	F, A, S, V, T, M
Handbok för beställare	www.svenskttra.se	Swedish Wood	Free	Info/Des	F, A, S, V, T, M
Statcon Post&Beams	www.consultec.se	Consultec	Subscription	Calc	
Statcon Connections	www.consultec.se	Consultec	Subscription	Calc	
Trusscon	www.csce.se	CSC	Subscription	Calc	
Roofcon	www.csce.se	CSC	Subscription	Calc	
Tak-CAD/Bitran	www.bjerking.se	Bjerking	Subscription	Calc	
Kbalk	www.bjerking.se	Bjerking	Subscription	Calc	
Masonitebeams	www.masonitebeams.se	Masonite Beams	Free	Des/Tab	F, V, T
Guide Träfasader	www.sp.se	SP Trä	Free	Des	
Guide Träbalkonger	www.sp.se	SP Trä	Free	Des	
ByggaF - moisture safety		Fuktcentrum	Free	Des/Tab (general)	M
AMA	http://byggtjanst.se/tjanster	Byggtjänst	Subscription	Info/Des	

Info = General information and references to codes and standards
 Des = Descriptions and drawings of details
 Tab = design tables for different spans etc
 Calc = Calculation program for different spans etc
 CAD = CAD files available

F = Fire
 A = Acoustics
 S = Stability
 V = Vibrations
 T = Thermal
 M = Moisture



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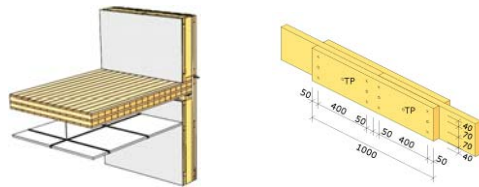
Sweden TräGuiden

Swedish Wood is an activity of organization Swedish Forest Industries and promotes the dissemination of knowledge, inspiration and development related to wood, wood products and wood construction. As part of these activities they provide www.traguiden.se.

W-takstol taklutning 1:4 (14°)

Noten angiver såvel angivne dimensioner efter som knutpunktens afbøjning med mere for betydelse for de slutlige konstruktionsmålinger.

Bænk	Spærrevler (m)										
	5	6	7	8	9	10	11	12	13	14	15
1	120/120	120/120	140/120	140/120	160/120	160/120	180/120	180/120	200/140	200/140	220/140
1.5	120/120	120/120	140/120	140/120	160/120	160/120	180/120	180/120	200/140	200/140	220/140
2	120/120	140/120	140/120	160/120	160/120	180/120	180/120	200/140	200/140	220/140	220/140
2.5	120/120	140/120	160/120	160/120	180/120	180/120	200/140	200/140	220/140	220/140	220/140
3	120/120	140/120	160/120	180/120	180/120	200/140	200/140	220/140	220/140	220/140	220/140
3.5	140/120	160/120	180/120	200/140	200/140	220/140	220/140	220/140	220/140	220/140	220/140
4	140/120	160/120	180/120	200/140	200/140	220/140	220/140	220/140	220/140	220/140	220/140
4.5	140/120	160/120	180/120	200/140	200/140	220/140	220/140	220/140	220/140	220/140	220/140
5	160/140	180/140	200/140	220/140	220/140	220/140	220/140	220/140	220/140	220/140	220/140
5.5	160/140	180/140	200/140	220/140	220/140	220/140	220/140	220/140	220/140	220/140	220/140



- Anslutning mot betongplatta på mark – väggreglar av lättreglar
1. Stående fasadpanel.
 2. Spiklåt.
 3. Vindskydd av oorganiskt material.
 4. Yttre isolerskikt fäst med distanshylsor.
 5. Värmesolerskikt.
 6. Vaggregel.
 7. Ångspärr.
 8. Horisontell väggregel, s.k. installationsskikt.
 9. Invändig beklädnad.
 10. Syll.
 11. Syllisolering.



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Norway

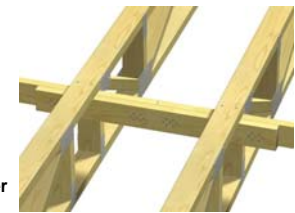
Webtool/software	Web-address	Owner/Publisher	Certificates	Type	Content
Byggforskserien	www.bks.byggforsk.no	SINTEF	Subscription	Info/Des/Tab/dlc	F, A, S, V, T, M
Fokus på tre	www.treteknisk.no	Treteknisk	Free	Des/Tab	F, A, S
Rapportserien	www.treteknisk.no/dt_articlefinder.aspx?m=557	Treteknisk	Free	Info	T
Rapport 84 tegninger	www.treteknisk.no/dt_articlefinder.aspx?m=557	Treteknisk	Free	Des	
Trefokus	www.trefokus.no	Trefokus	Free	Des/Tab	F, A, S
Håndbok i mekaniske treforbindelser	www.trefokus.no	Trefokus	Free	Des/Tab	
Takstol Detaljer	www.takstol.com	NTF	Free	Des	F, A, S, T



TreFokus
BYGGEBSKRIVELSE
14 Carport



SP Technical Research Institute of Sweden

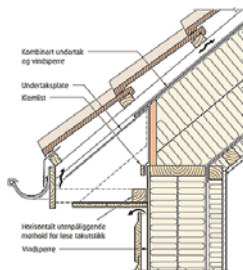


Takstol Detaljer

Skjøting av tverrstivere mellom gitterbjelker: Lengde av ensidig lask av samme dimensjon som tverrstiveren er 1 m. 4 spikergrupper med 7 stk. spiker 31/90 i hver gruppe.

Norway

Byggforskserien



Byggforskserien

Fig. 44 Eksempel på utslutning mellom blindingsvegg og sperrestak



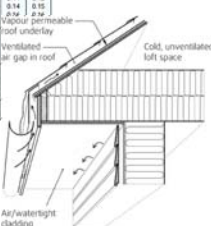
0 General

01 Contents

This Design Guide describes the structure and design details for new alternative solutions for pitched wooden roofs with cold lofts. See Fig. 20.1 or in the traditional way as a cold, ventilated loft space with all ventilation coming between the roof underlay and the roof covering, see Fig. 20.2. See Fig. 20.3. Having a cold, unventilated loft space is a relatively new solution, but experience with it is good so far.

This Design Guide deals with interior air and vapour, lightning, thermal insulation, ventilation and exterior lightning against wind, rain and snow.

Insulation depth, d, mm	Bottom chord or beam dimension, b x h, mm	Thermal conductivity, λ, of insulation, W/(m·K)	λ, of insulation, W/(m·K)
250	48 x 18	0.034	0.037
	48 x 148	0.15	0.16
	48 x (148 + 98)	0.15	0.17
	1-beam	0.15	0.16
300	48 x 18	0.12	0.13
	48 x 148	0.12	0.13
	48 x (148 + 98)	0.14	0.15
	1-beam	0.12	0.13
400	48 x 18	0.11	0.11
	48 x 148	0.11	0.12
	48 x (148 + 98)	0.12	0.13
	1-beam	0.11	0.12
500	48 x 18	0.09	0.10
	48 x 148	0.09	0.10
	48 x (148 + 98)	0.11	0.12
	1-beam	0.10	0.10
600	48 x 18	0.08	0.08
	48 x 148	0.07	0.07



SP Technical Research Institute of Sweden

Denmark

Webtool/software	Web-address	Owner/Publisher	Certificates	Type	Content
LægteDim Version 2.1, april 2014	www.traeshop.dk/shop/	Traeinformation	Member	Calc	
ÅseDim	www.traeshop.dk/shop/	Traeinformation	Member	Calc	
SømDim	www.traeinfo.dk	Traeinformation	Member	Calc	
TraeCad	www.traeshop.dk/shop/	Traeinformation	Subscription	Info/Des/CAD	F, A, S, V, T, M

SømDIM v1.3.0

© Traeinformation 2009-2014

Choose connection:
☐ Frame to frame, single chord
☐ Overlapped joint

Custom C file:
☐ Save and load values
☐ Units, scales, units and dimensions
☐ Save as: ... Save (COPY) SETTINGS
☐ Save as: ... Save (COPY) SETTINGS

Results:
 Result: ...
 Result: ...
 Result: ...

The main gasket:
 Diameter: d = 3 mm
 Length: l = 20 mm
 Length of threaded part: l₁ = 10 mm
 Point length - diameter: l₂ = 10 mm
 Head diameter - diameter: l₃ = 10 mm

Plate 1:
 Plate type: Plywood
 Density: ρ = 600 kg/m³
 Thickness: t₁ = 20 mm

Bracket number 2:
 Strength class: C24
 Thickness: t₂ = 45 mm

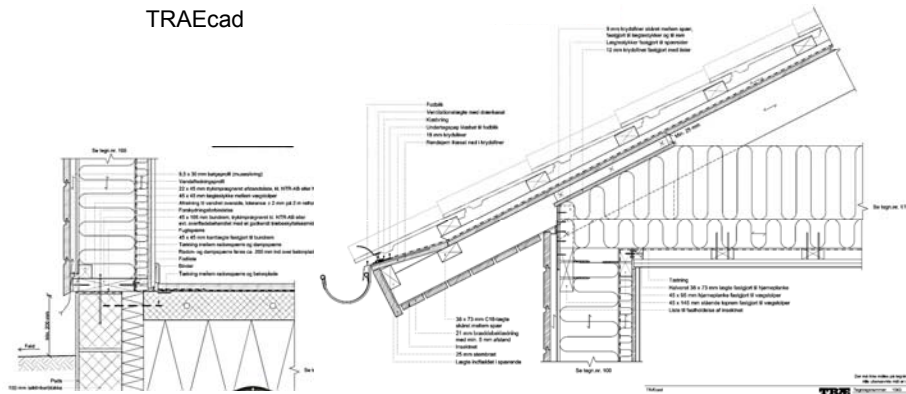
Other chosen:
 ρ = 600 kg/m³
 Pre-drilling

Strength class:
 Bore strength: f₁ = 400 MPa
 Yield moment: M_y = 400 MPa
 Minimum strength at 100 kg/m²: f₁ = 400 MPa
 Push through parameter in panel: f₁ = 400 MPa

Intermediate results:
 f₁ = 20 MPa, ρ = 600 kg/m³, f₁ = 100 MPa, f₁ = 100 MPa, f₁ = 100 MPa
 f₁ = 100 MPa, ρ = 600 kg/m³, f₁ = 100 MPa, f₁ = 100 MPa, f₁ = 100 MPa
 f₁ = 100 MPa, ρ = 600 kg/m³, f₁ = 100 MPa, f₁ = 100 MPa, f₁ = 100 MPa

Future mode:
 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 2096, 2097, 2098, 2099, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2110, 2111, 2112, 2113, 2114, 2115, 2116, 2117, 2118, 2119, 2120, 2121, 2122, 2123, 2124, 2125, 2126, 2127, 2128, 2129, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2141, 2142, 2143, 2144, 2145, 2146, 2147, 2148, 2149, 2150, 2151, 2152, 2153, 2154, 2155, 2156, 2157, 2158, 2159, 2160, 2161, 2162, 2163, 2164, 2165, 2166, 2167, 2168, 2169, 2170, 2171, 2172, 2173, 2174, 2175, 2176, 2177, 2178, 2179, 2180, 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TRAEdad



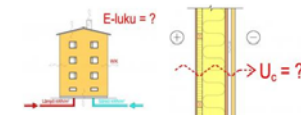
SP Technical Research Institute of Sweden

Finland

Webtool/software	Web-address	Owner/Publisher	Certificates	Type	Content
Puinfo	www.puinfo.fi	Puinfo	Free	Info/Des/Tab	
Runkopes 2.0	www.puinfo.fi/rakentaminen	Puinfo	Free	Info/Des/Tab/CAD	F, A, S, V, T, M
Puurakenteen U-arvon 1.03	www.puinfo.fi/rakentaminen	Puinfo	Free	Calc	T
E-lukulaskuri 1.02	www.puinfo.fi/rakentaminen	Puinfo	Free	Calc	T



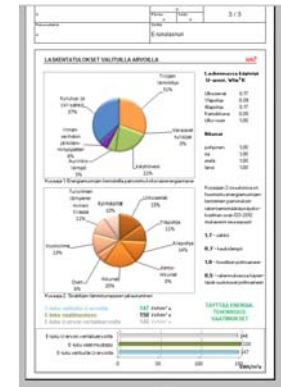
Energialaskurit



Tästä osiosta löydät Excel-pohjaiset U-arvolaskurit. U-arvon laskennassa käytetään seuraavia laskentamenetelmiä:

- Puurakenteet: SFS-EN ISO 6946
- Maanvarainen alapohja: EN ISO 13370

Tutustu laskureihin



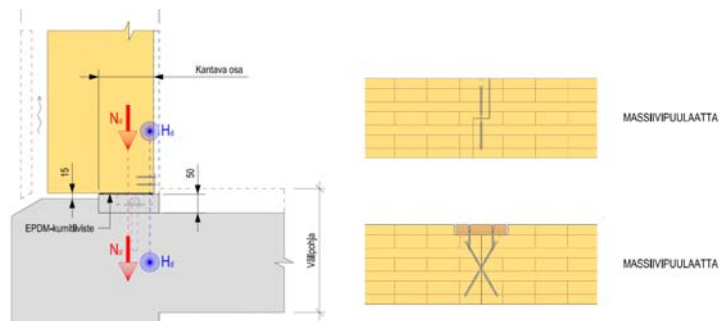
E-lukulaskuri 1.02



SP Technical Research Institute of Sweden

Finland

RunkoPES 2.0 (23.3.2014) is an open wood element standard



SP Technical Research Institute of Sweden

Austria

Webtool/software	Web-address	Owner/Publisher	Certificates	Type	Content
Datholz	www.datholz.com		no	Info/Des	F, A, T
Holzforschung	holzforschung.at		no	Info	
pro:Holz	www.proholz-noe.at/fileadmin/proholz-noe/media/Infomaterial/Haeus		no	Info	F, A, S, V, T, M

pro:Holz

Tables: Cost effectiveness

Richtwerte freier, wirtschaftlicher Spannweiten für Holzdecken bei folgenden Bauweisen:

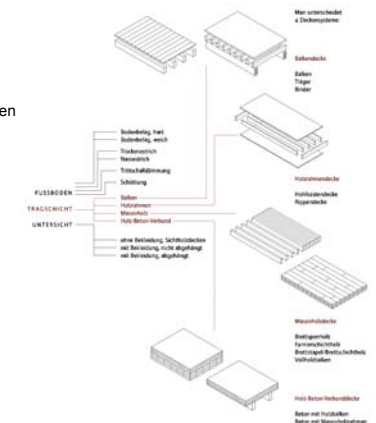
Balkendecke	für alle Spannweiten geeignet
Hohlkastendecke	ab 5m
Massivholzdecke	bis 6m
Holz-Beton-Verbund	ab 5m

Schallschutz

Schallschutz

Schallschutzanforderungen nach OIB-Richtlinie 5*

	Geschossdecke	Trenndecke
Trittschall	–	$L'_{nT,w} \leq 48 \text{ dB}$
Luftschall	–	$D_{nT,w} \geq 55 \text{ dB}$



SP Technical Research Institute of Sweden

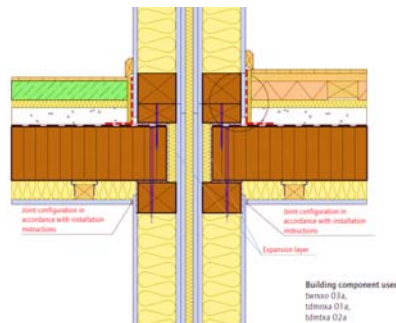
Austria

dataholz.com

Catalogue of timber building materials, components and component connections reviewed to consider **thermal**, **acoustic**, **fire** performance requirements and **ecological** drivers for timber construction released by accredited testing institutes.

These datasheets will generally be accepted as **proofs of compliance** by building authorities in Austria.

Designation: twrxtdm01
Version: 13.05.2008
Source: TU-Graz/Labor für Bauphysik
Institut für Hoch- und Industriebau
Preparation: TUG, HE
Compartment wall - Compartment floor connection
dataholz.com



SP Technical Research Institute of Sweden

Austria dataholz.com

There is no direct advertising on dataholz.com.

How can a company be listed on dataholz.com?

For company-specific (proprietary) timber construction systems the respective manufacturer is given as the supplier and a link directed to the company homepage is provided.

It is important to note that manufacturers will be required up to date support information data which will be reviewed regular to maintenance.

Annual fees for the listing of a company-specific timber construction systems are given in the table below.

Fees for listing of companies on www.dataholz.com

	First year	Following years
Initial listing	* 1.200,-	* 600,-
Building materials	120,-	120,-
Building components	320,-	120,-
Variations of building components	60,-	25,-

All prices given in Euro, excl. 10% VAT.

* 50% price discount for manufacturers inspected by Holzforschung Austria



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Germany

Webtool/software	Web-address	Owner/Publisher	Certificates	Type	Content
Dataholz.de	www.holz.tum.de/index.php?id=17&L=1&tx_ttnews[tt_news]=17	TUM		Info/Des	F, A, S, V, T, M
Weto	http://www.weto.de/	Weto AG	Subscription	Calc	
Informationsdienst Holz	http://informationsdienst-holz.de	Forst- und Holzwirtschaft			

Project: dataholz.de

Project in preparation:

A component database for wood construction in Germany is to facilitate the design of buildings in wood construction considerably. Reliable information about tested timber constructions are made available to the public.



Schnitt des Referenzbaus
[weitere Ansichten]

Brand Wärme			Schall		Öko
REI	U [W/(m²K)]	m _{w,B,A} [kg/m²]	Diffusion l _{n,w} (C _f)	R _w (C _f , C _{tr})	Ö13 _{Rdn}
60	0,44	35,7	geeignet	65(-2)	54(-2,-6)
					-3,0



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Germany

WETO AG - Software



VisKon - Visuelle Konstruktion



woodcon v8 - 3D Holzbauplanung



LigniKon Large - 3D-CAD
Holzbaustsoftware für
Tragkonstruktion und Abbund



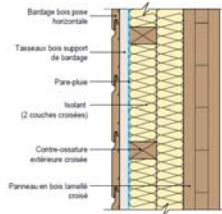
WETO-Liberta
Free joinery program



SP Technical Research Institute of Sweden

France

Webtool/software	Web-address	Owner/Publisher	Certificates	Type	Content
Catalogue Construction Bois	www.catalogue-construction-bois.fr/	CODIFAB			F, A, T, M



CODIFAB

www.catalogue-construction-bois.fr/

There are many technical wood details (walls, floors, roofs), values of technical features (fire, thermal, acoustic)

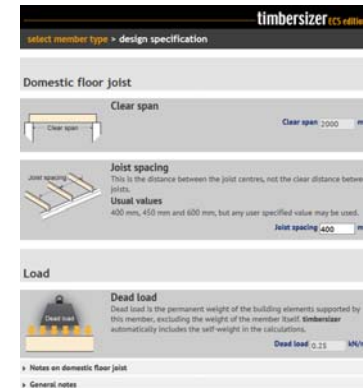
This first version will be completed in 2014 by current search engine and a second part on structures (detached houses, apartment buildings and facades timber frame).



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Great Britain

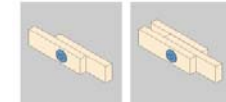
Webtool/software	Web-address	Owner/Publisher	Certificates	Type	Content
timbersizerPro EC5 edition	www.trada.co.uk/techinfo/toolbox.html	TRADA	yes	Calc	
timberconnectionsPro EC5 edition	www.trada.co.uk/techinfo/toolbox.html	TRADA	yes	Calc	



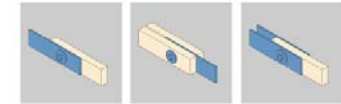
Wood Information > Software tools > Timberconnections



select connection
All wood connections



Timber to steel connections



> General notes



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Funding of "web-based" tools



There are web catalogs and descriptions with instructions to develop appropriate details in several countries. They are usually free to use and they are funded by the timber industry through their organizations.

Dataholz.com offers companies to get their own materials and components in the catalog. They have to pay for this and proof of compliance must be submitted for review before.

Calculation programs are usually developed by commercial data companies and not free. You must purchase software or a subscription. Programs from some organizations require that you are a member.



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Experiences? Opinions? Expectations?



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