

SOLAR HEAT isosolar



TECHNICAL PREPARATION



STRUCTURAL CALCULATIONS



ISOPLUS - YOUR PARTNER

isoplus – your partner for structural analyses and building construction

No standard solutions or restrictions – just tailor-made solutions to meet your specific requirements

Structural analysis

isoplus is able to define the specifications required for solar-energy systems. During this task, special attention is focused on the number of thermal cycles and thermal expansions.

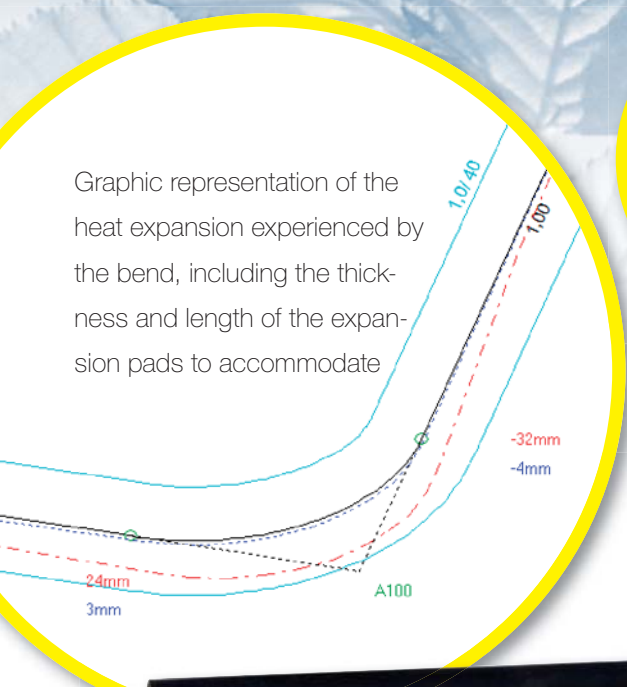
The system will be optimised in compliance with EN 13941 using a recognised calculation program

Technical preparation

The produced drawings use a numbering system that clearly indicates how the individual solar junctions have been arranged and where they are to be installed.

The pre-fabricated solar junctions will also be identified with the drawing numbers and specific colour codes, which facilitates fast, simple and tidy installation.

Graphic representation of the heat expansion experienced by the bend, including the thickness and length of the expansion pads to accommodate



Component number



Colour coding



Stainless-steel threaded sleeve



Diagram of distributors with component numbers

CREDENTIALS

AKERSHUS ENERGI VARME AS

Biggest Solaranlage Norway

Area solar panel:	12.810 m ²
Annual production:	4.223MWh
Max. heating performance:	7 MW



NYKØBING SJÆLLAND

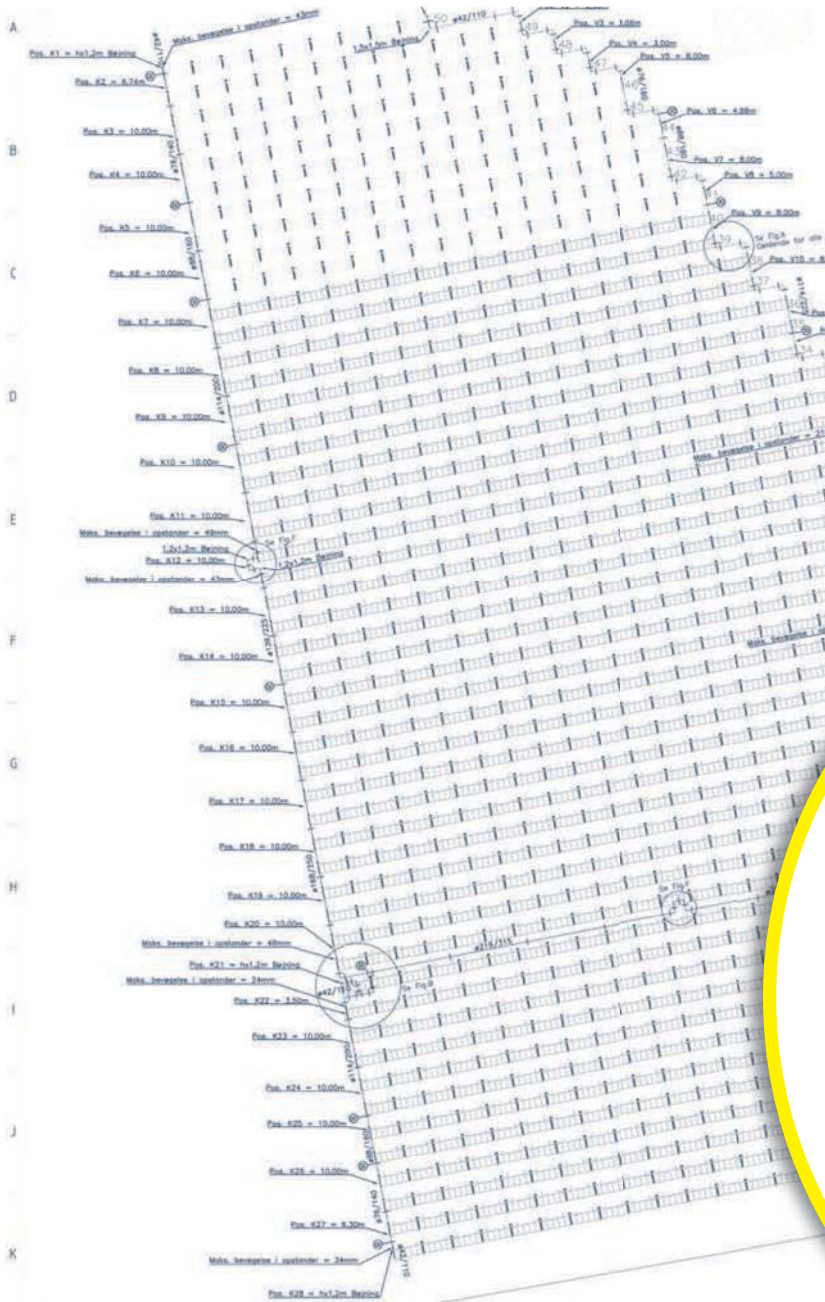
Area solar panel:	19.000 m ²
Annual production:	8.548MWh
Max. heating performance:	14 MW

GRENAÅ

Area solar panel:	12.000 m ²
Annual production:	6.000MWh
Max. heating performance:	8 MW

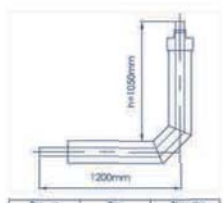
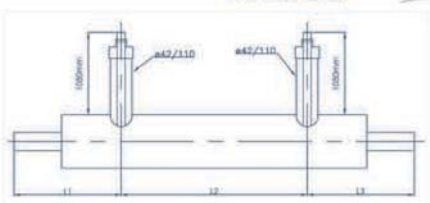
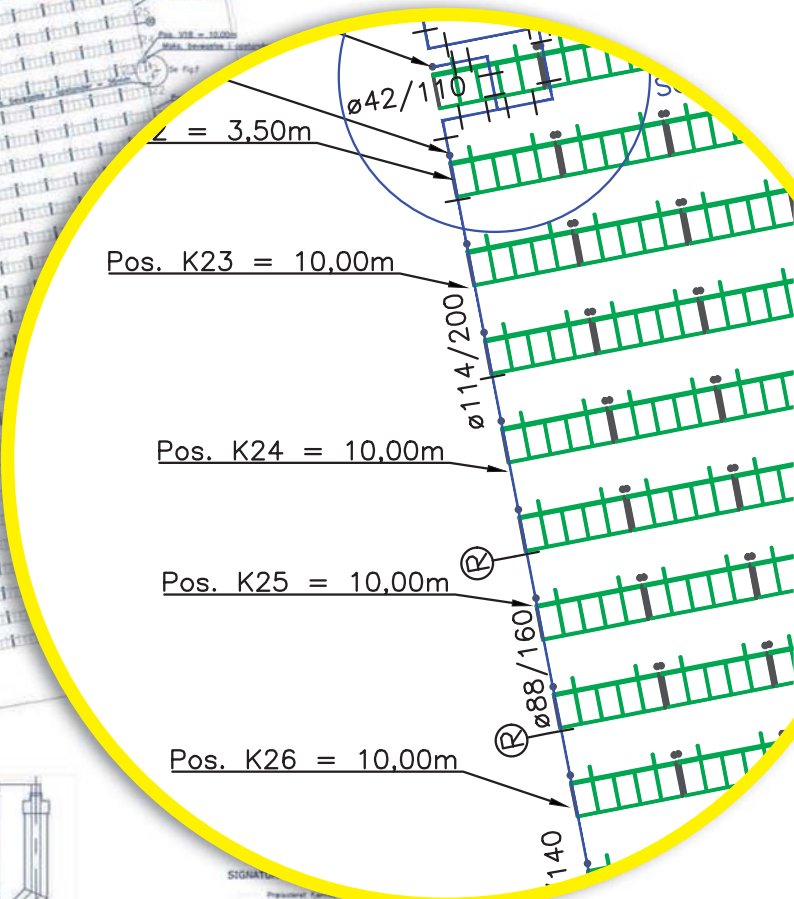
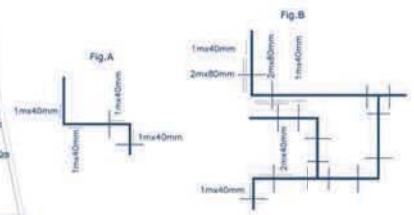
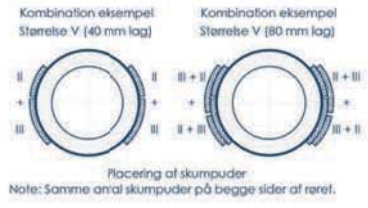


DRAWING



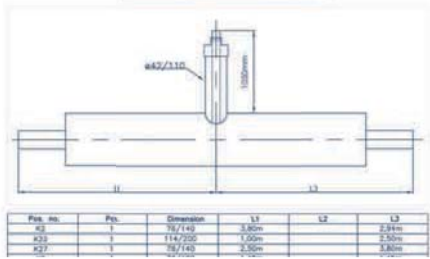
Skumpude anvendelse

Kopperer - Ø 1 mm	Størrelse	Kombination
65 - 160	I	---
180 - 280	II	---
315 - 355	III	---
400 - 500	IV	II + II
560	V	II + III
630 - 670	VI	II + III
710	VII	III + III
800	VIII	III + III + II
900	IX	III + III + II
1000	X	III + III + III + II
1100	XI	III + III + III + II
1200	XII	III + III + III + III
1300	XIII	III + III + III + III + II



Pos. nr.	Pos.	Dimension	L1	L2	L3
K3-K4+K23	3	79/140	2,50m	3m	2,50m
K5-K6+K24	3	89/160	2,50m	3m	2,50m
K7-K8+K25-K26	5	114/200	2,50m	3m	2,50m
K10-K14	5	139/250	2,50m	3m	2,50m
K15-K20	8	169/290	2,50m	3m	2,50m
V1	1	79/140	1,50m	3m	1,50m
V2	1	89/160	1,50m	3m	1,50m
V9-V10	1	114/200	1,50m	3m	1,50m
V11	1	114/200	2,50m	3m	1,50m
V14	1	139/250	1,50m	3m	2,50m
V16	1	139/250	2,5m	3m	1,50m
V18-V17	2	139/250	2,5m	3m	2,5m
V19-V23	5	169/290	2,5m	3m	2,5m
V24	1	189/280	1,31m	3m	2,50m
V25	1	114/200	2,5m	3m	1,1m
V26	1	114/200	2,5m	3m	2,5m
V27	1	89/160	2,5m	3m	2,5m
V28	1	79/140	2,5m	3m	2,5m

Pos. nr.	Pos.	Dimension	L1	L2	L3
K1	1	42/110	3,80m	2,81m	-
K23	1	114/200	1,00m	2,50m	-
K27	1	89/160	2,50m	3,80m	-



SIGNATUR

<input type="checkbox"/>	Præsenteret	Tegning
<input type="checkbox"/>	Præsenteret	godkendelse
<input type="checkbox"/>	Præsenteret	aflevering
<input type="checkbox"/>	Præsenteret	projektgodkendelse
<input type="checkbox"/>	Præsenteret	reduktion
<input type="checkbox"/>	Komprimeret	
<input type="checkbox"/>	Fladtegning	
<input type="checkbox"/>	Sonderetegnelse	
<input type="checkbox"/>	Skumpude	

Note:
Tegningen er udført i henhold til A2 størrelse og må ikke anvendes til andre formål end den oprindelige.
Tegningen er udført i henhold til den tekniske specifikation og den er medmindre andet er angivet, ikke
tilladt til brug til konstruktion, byggeri, installation eller andre formål.
Den tekniske specifikation er udført i henhold til den tekniske specifikation og den er medmindre andet er angivet, ikke
tilladt til brug til konstruktion, byggeri, installation eller andre formål.
Den tekniske specifikation er udført i henhold til den tekniske specifikation og den er medmindre andet er angivet, ikke
tilladt til brug til konstruktion, byggeri, installation eller andre formål.

Dato	Rev.	Udført af	Ændring
28.08.13	C	SS	Indiciet skumpude.
14.08.13	B	SS	-
15.08.13	A	SS	-

