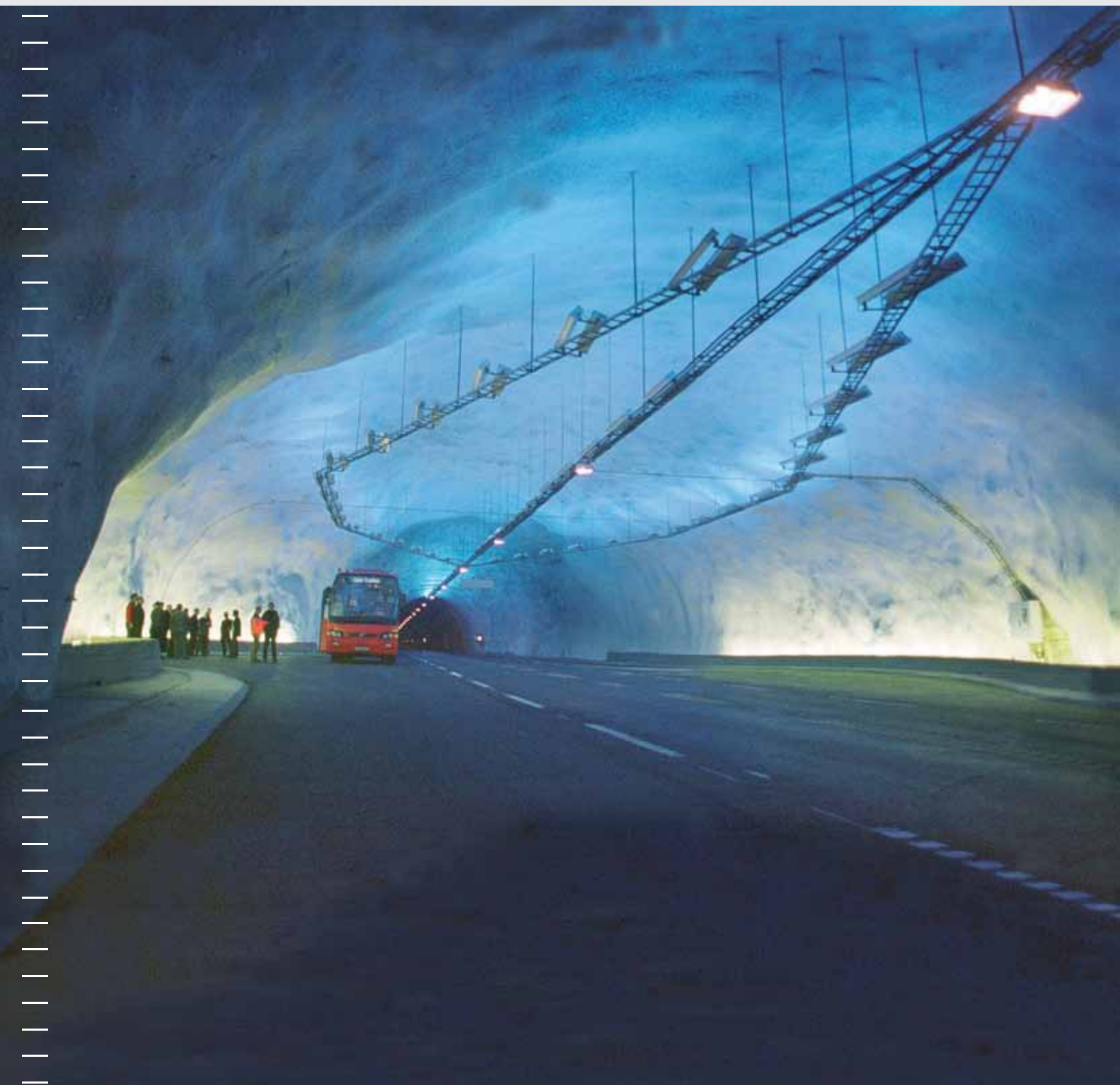




KABELSTIGER OG UTSTYR FOR TUNNELER CABLE LADDERS AND EQUIPMENT FOR TUNNELS



Being first is good, being smart is better, being both is Simply the Best!



PRODUKT- INFORMASJON

Øglænd System tilbyr opphengssystemer tilpasset alle faggrupper, kabelstiger, kabelbaner, koblingsboksstativ, rørklammer, kabelklammer (trefoil cleats), varmekabler, styringssystemer m.m.

**Har du spørsmål?
Vennligst ta kontakt.**

Firmapresentasjon
Company presentation

Last ned siste versjon av våre produktkataloger fra:

Download our latest version of product catalogues from: www.oglaend-system.com

PRODUCT INFORMATION

Oglaend System offer a broad range of cable support systems for all applications, e.g. cable ladders, cable trays, junction box racks, tubing clamps, cable cleats, heating cables, control systems etc.

**If you need further information,
please do not hesitate to contact us!**



MATERIAL NAVN / MATERIAL TYPES:

PG = Pregalvanisert stål	Pre galvanized steel	20 my zink
HDG = Varmgalvanisert	Hot Dip Galvanized	NS/ISO 1461*
SS = Rustfritt stål	Stainless Steel	AISI 316L**
AL = Aluminium	Aluminium	5052 H22/H32

*) Steel quality for HDG: Steel grade EN 10130 Grade DC01

**) Steel quality for SS: EN 1.4404

Andre kvaliteter på forespørsel / Other material qualities on request.

SYMBOLER FOR SKRUE / SYMBOLS FOR SCREWS:

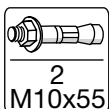
Symbolet viser skruetype, minimum antall og typebenevnelse. Bestillingsnummer er på s. 26.



This symbol shows type of screw, the number needed and name. For order no. - see page 26.

SYMBOLEKSEMPLER:

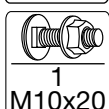
Ekspansjonsbolter
Behov: 2 stk.
Type M10x55



SYMBOL EXAMPLES:

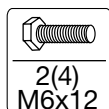
Expansion bolts
2 pcs. needed.
Type M10x55.

Låseskrue m. linsehode
Behov: 1 stk.
Type M10x20.



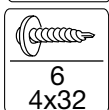
Locking screws
1 pcs. needed.
Type M10x20.

Sekskantskrue
Behov: Min. 2 stk.
(4) Kan brukes*.
Type M6x12.



Hexagonal screws
Minimum 2 pcs. needed.
(4) May be used*.
Type M6x12.

Selvborende skrue
Behov: 6 stk.
Type 4x32.



Self tapping screw
6 pcs. needed.
Type 4x32.

Standard:

Skrue er inkludert!

Oppgitt skruerantall for parentesen leveres standard med delene.

(4) Skrue i parentes er IKKE inkludert!

Ved spesielle forhold sikres montasjen med antall oppgitt i parentes. Disse ekstra skruene bestilles separat.

Standard:

Screws are included!

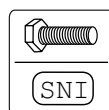
The number of screws and nuts before the brackets are included when ordering the part.

(4) Screws in brackets are NOT included!

The number in brackets represents the number of screws that can be fitted to fix the part. These must be ordered separately.

Skrue IKKE inkludert!

SNi: Skruer ikke inkludert.



Screws NOT Included!

SNi: Screws not included.

Innhold: Contents:

Symbolforklaring Explanation of symbols	3
Husk ved prosjektering: During engineering, remember:	4
LOE Stigeprogram LOE Ladder programme	6
Montasjeoversikt: Kabelstige Assembly synopsis: Cable ladder	8
LOE oppheng/tilbehør LOE support and accessories	10
Feste av lysrørarmatur/damplampe Fixing of armature/h.p. sodium lamp	14
Utstyrsbraketter Equipment brackets	16
Tilleggsutstyr (Wire syrefast) Additional equipment (Wire SS)	18
Tunnelutstyr på fjellbolt Tunnel equipment to rock bolt	20
Tunnelutstyr for kraftverk/vegbruer Tunnel equipment for power stations/bridges	22
Tunnelutstyr og rack for jernbane Tunnel equipment and racks for railways	23
Ekspansjonsrisiko ved temperatursvingninger Expansion risk at variations of temperature	24
Perforerte profiler Preslotted profiles	25
Skrue Screws	26
Salgskontorer Locations	27

Be om separat Referanseliste
Ask for separate Reference list



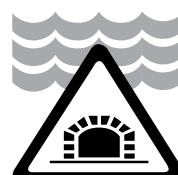
DNV Type Approval Certificate

Oglaend System's ladder type LOE, TOE and OE are certified by DNV, certificate no. E-12545. The product range is tested according to IEC 61537.

Oversjøiske og undersjøiske tunneler Land tunnels and subsea tunnels



Et rikholdig utvalg standard utstyr i materialkvaliteter tilpasset de forskjellige korrosjonsmiljø i oversjøiske og undersjøiske tunneler.



A broad range of standard equipment in material qualities to withstand the corrosion environment in land tunnels and subsea tunnels.

Patenter og mønsterbeskyttelser

Mange av Oglaend Systems produkter er patentert eller mønsterbeskyttet.

Patents and design applications

Many of Oglaend System's products are patented or protected by design applications.



Vi ser konsekvensene når periodisk kontroll avdekker for tidlig korrosjon og utskiftningsarbeid krever stenging av tunneler.

MATERIALKVALITETER:

BETEGNELSE

PG **Pregalvanisert/ Sendzimirgalv.**

PG **El-forzinket**

HDG **Varmgalvanisert etter tilvirkning.**

Epoxy/polyester/levasint belegg

SS **A2 = 18/8 = AISI 304 = SS 2333** =

SS **A4 = AISI 316 = SS 2343** =

SS **AISI 316L** =

VED PROSJEKTERING, HUSK:

VELG RIKTIG MATERIALE/ KORROSJONSBEKYTTELSE.

– Til vanlige tunneler er varmgalvanisert utstyr med minimum 60µ mm gjennomsnitt zinkbelegg egnet til tunneler med lav korrosjonsrisiko.

– Til undersjøiske tunneler og i sterkt korrosive miljø, eks. fjell med alunskifer, anbefales rustfritt, syrefast stål. A4 kvalitet (syrefast) bør velges framfor A2 pga. uvesentlig prisforskjell og faren for bl.a. svovelsyre fra eksos i tunneler.

A4 stål er et «grønt» resirkulerbart material. Det beholder korrosjonsbestandigheten selv ved montasjeskader og er et bedre alternativ enn varmgalvanisert material med plastbelegg, da disse har lett for å flaske fra snittflatene.

Også mindre deformering ved brann.

Forøvrig henvises til Statens Vegvesens Håndbok 021.

FORKLARING

Stålplate zinkbelagt med 20-30µ mm.

Etterbehandling som gir ca. 5-15µ mm.

Ferdig del dyppes i zinkbad. Vanlig ca. 60-70µ zinktykkelse (gjennomsnitt) ved platetykkelse 1,5 - 2 mm. (Norm ISO1461).

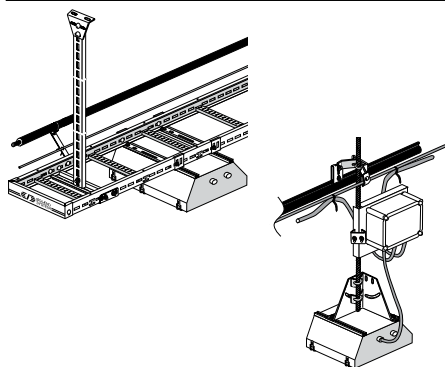
Korrosjonsbeskyttende belegg over HDG.

Utsatt for montasjeskader som svekker korrosjonsbestandigheten.

Rustfritt (ikke syrefast) stål.

Rustfritt og syrefast stål.

Øglænd Systems standard, med bedre sveisbarhet.



Valg av utstyr til lystrasé - med eller uten kabelstige.

FORDELER MED KABELSTIGE:

Lettere montasje og kobling av lysarmaturer.

Det kan benyttes rimeligere kabeltype til el-forsyning.

Senere forandringer/installasjoner gjøres enklere, raskere og rimeligere.

På stigen kan legges event. viftekabler, telekabler eller andre styre/kommunikasjonskabler. Det oppnås også bedre stabilitet i lysarmaturfeste.

FORDELER UTEN STIGE:

Rimeligere førstegangskostnad – for bruk på lavtrafikk tunneler ÅDT < 2500.

Ekspansjonsproblemer?
Se side 24.

UNNGÅ SOLSLYNG:

Ikke nøl med å kontakte Øglænd System ved den minste tvil.

Vi leverer skreddersydde tunnelløsninger!

Sevlåsende skruer med vibrasjonssikker flensmutter i SS



Installasjon.

Anbefalt feste til tunneltak:

FESTE TIL BETONG.

Bruk takfeste for 2 stk. ekspansjonsbolter i kombinasjon med pendelskinne S-M CH-50-1-3000.

FESTE TIL FJELL.

Fjellbolt (armeringsstål) med Ø 20-25 mm ved kabelstigeoppheng. Ø 25 ved armaturoppheng uten stige.

FJELLBOLT I FJELL eksempel på festemåter:

– Epcon masse = ekstrem styrke.

– Hurtigherdende masse (20 sek.) kombinert montasje av fjellbolt og kabelstige m. utstyr.

NB! Husk tilstrekkelig borelengde tilpasset fjellkvalitet.

ANBEFALT FJELLBOLT: For oppheng av galvaniserte kabelstiger bruk Kamstålbolt K-500 med Combiocoat belegg. For oppheng av rustfrie kabelstiger bruk syrefast fjellbolt eller M20/M24 gjengestag f.eks ØS M20x1000 art.nr 1372436. Be om egen montasjeanvisning dersom rustfri stige skal monterest på galvanisert fjellbolt - ikke bruk krympestrømpe som galvanisk skille.

Våre tunnelsystemer i SS-utførelse leveres med selvlåsende skruesett

Øglænd Systems selvlåsende flensmuttere hindrer sammenføyninger fra å løsne ved vibrasjoner og gir installasjonen økt sikkerhet.

BE OM EGEN BROSJYRE PÅ SELVLÅSENDE SKRUESETT.



We see the consequences when periodical control prove too early corrosion and replacement work demand tunnels shut down.

MATERIAL/COATING:

DESCRIPTION

PG **Pre galvanised/Sendzimir galv.**

PG **Brigh zink plated**

HDG **Hot dip galv.**

Epoxy/polyester/levasint coating

SS **A2 = 18/8 = AISI 304 = SS 2333**

SS **A4 = AISI 316 = SS 2343**

SS **AISI 316L**

= Stainless (not acid proof) steel.

= Stainless and acid proof steel.

= Oglaend Systems standard, with better welding result.

DURING ENGINEERING, REMEMBER:

CHOOSE AND SPECIFY CORRECT MATERIAL/CORROSION PROTECTION.

- In ordinary tunnels hot dip galvanised equipment with minimum 60µ mm-average zinc coating is suitable for tunnels with low corrosion risk.
- For subsea tunnels, or in heavy corrosive environment, e.g. rocks with alum slate, recommends stainless acid proof steel. Choose A4 quality in stead of A2 because of favourable price/quality, and the risk of sulphuric acid from exhaust in tunnels. A4 steel is easy to recycle (Green material) and maintain corrosion protection also on products damaged during installation. Keeps corrosion protection even when damaged. This is a favourable quality compared with e.g. epoxy coating on top of hot dip galvanised, because it is easily sealed/peeled off at cut edges. Even less deformation at fire.

Also read the local authorities normative guidelines.

EXPLANATION

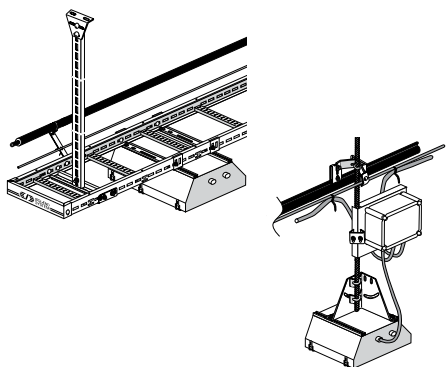
Steelplate zinc coated to 20-30µ mm.

The coating process gives approx. 5-15µ mm.

The dipping process in zinc bath gives approx. 60-70µ zinc thickness (average) on material thickness 1,5-2 mm. (Norm ISO1461).

Corrosion protection coating on top of hot dip galv.

Prone to installation damage which may cause corrosion attack.



Selecting equipment for lighting run - with or without cable ladder.

ADVANTAGES WITH CABLE LADDER:

Easier installation of lighting armatures. Cheaper cable type can be used for power-supply. Changes and re installations are simpler, quicker and cost effective. The ladder can support auxillary cables. Better stability in fixing of light armatures.

ADVANTAGES WITHOUT CABLE LADDER:

Cost effective initial installation costs.

Expansions-problems?
See page 24.

AVOID HEAT EXPANSIONS:

**Whenever in doubt,
don't hesitate to ask
Oglaend System.**

**We supply tailormade
solutions for tunnels!**

Self-Locking Screws with
vibration safe flange nuts
all in SS



Installation.

Recommended tunnel ceiling support:

FOR FIXING TO CONCRETE: Use ceiling bracket, fixed with 2 expansion bolts in combination with central support channel S-M CH-50-1-3000.

FOR FIXING TO ROCK:

Rock bolt (reinforcing iron rods) with Ø 20-25 mm for cable ladder support. Ø 25 without cable ladder.

HOW TO FIX ROCK BOLT IN ROCK:

- Epcon mass = exceptional strength.
- Quick-setting cement (20 sek.) for installation of both rock bolts and cable ladders with equipment.

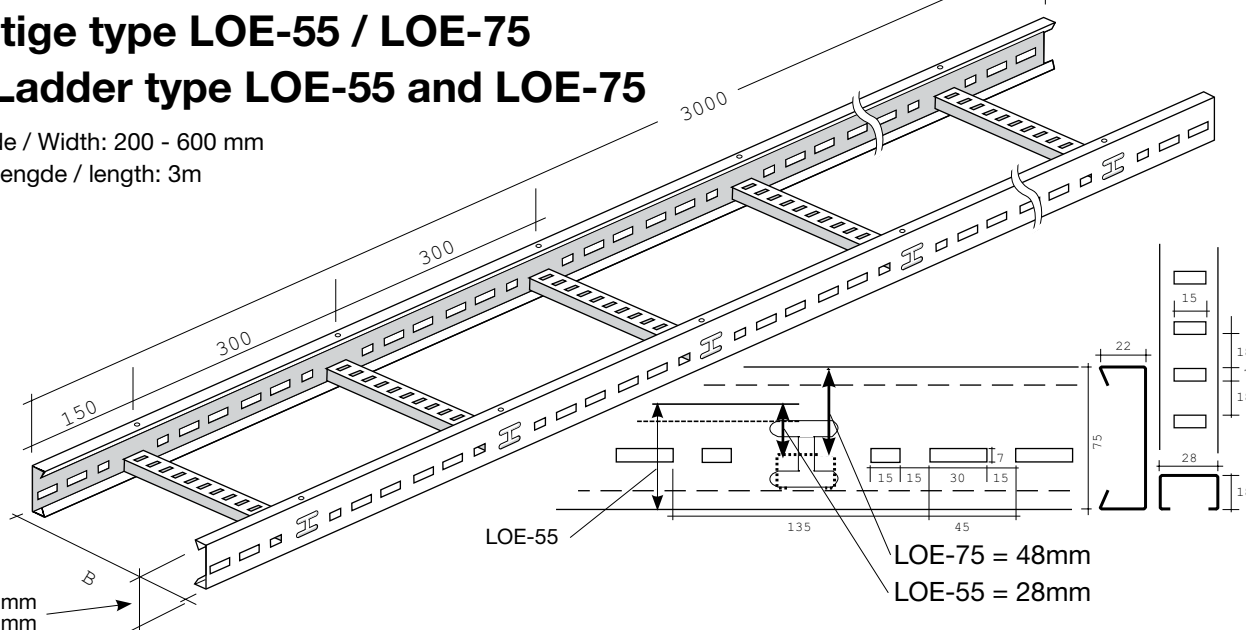
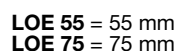
NB! Remember sufficient hole depths according to rock substance.

RECOMMENDED ROCK BOLT: We recommend rebar rockbolt K-500 with Combicoat to support galvanized cable ladder. To support cable ladders of stainless steel we recommend stainless rebar rock bolt or M20/M24 threaded rod e.g ØS M20x1000 article no. 1372436. Please ask for our installation manual if you must use galvanized rock bolt on stainless steel cable ladder. Do not use heat shrink tubing as galvanic isolator.

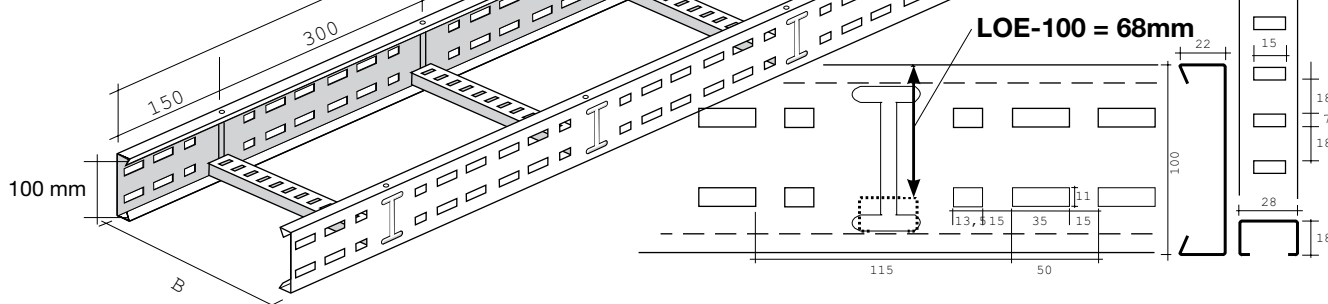
Our tunnel systems in SS are supplied with Vibration-proof Self-Lock bolt sets Oglaend System's self locking flange nuts prevents joints from loosening through vibration and give the complete installation increased safety.

ASK FOR SEPARATE SELF-LOCKING BROCHURE.

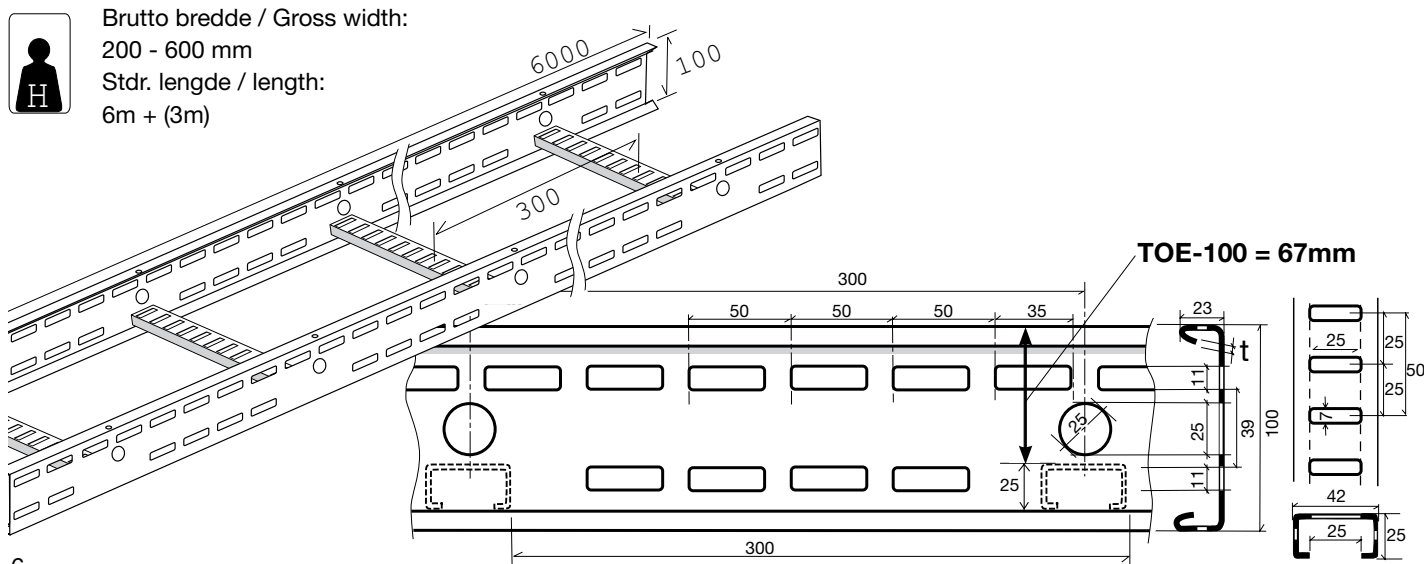
Bredde / Width: 200 - 600 mm
 Stdr. lengde / length: 3m



Brutto bredde / Gross width:
200 - 600 mm
Std. lengde / length: 3m



Brutto bredde / Gross width:
200 - 600 mm
Stdr. lengde / length:
6m + (3m)



LOE-55 / LOE-75:

Type/bredde Type/width	HDG Art. no.	SS Art. no.
LOE55-200	1371511	1372330
LOE55-300	1371512	1372331
LOE55-400	1371513	1372332
LOE55-500	1371514	1372333
LOE55-600	1371515	1372334

FORDELER:

Lette stiger med stor styrke.

Perforerte trinn og vanger.

3m lengder gir rund linje ved kurvatur og enklere håndtering, både på truck og ved montering.

Max 3m opphengsavstand bør brukes for å beholde stabilitet sideveis i tunneler.

Ved lette belastninger kan LOE-55 benyttes.

Stdr. materialtykkelse:
HDG = 1,25mm. SS = 1mm

ADVANTAGES:

Light-weight ladders with great strength.

Preslotted rungs and side pieces.

3m lengths gives smoother lines in curves and easy handling by truck and by man.

Max 3m support distance is recommended to secure sideways stability in tunnels.

For light load LOE-55 can be used.

Stdr. material thickness:
HDG = 1,25mm. SS = 1mm.

Type/bredde Type/width	HDG Art. no.	SS Art. no.
LOE75-200	1372647	1372335
LOE75-300	1372015	1372336
LOE75-400	1372649	1372337
LOE75-500	1372016	1372338
LOE75-600	1372651	1372339

BELASTNINGSDATA LOE-55/LOE-75.

Lasteevne pr. m: Tabellen viser maksimalt tillatt belastning ved 1 og 1,25 mm material, inkludert sikkerhetsfaktor 1,7 og maksimalt 1% nedbøyning.

LOAD DATA LOE-55/LOE-75.

Capacity per m: The table shows maximum allowed safe working load for 1 and 1,25 mm material thickness, including a safety factor of 1,7 and maximum 1% deflection.



Opphengsavst. Support spacing	HDG kg/m	SS kg/m
2,0 m	176	304
3,0 m	97	150
4,0 m	25	79

*) SWL: Safe Working Load

LOE-100:

FORDELER:

(I tillegg til LOE-75)

En kraftig stige for stor belastning.

Stdr. materialtykkelse:
HDG = 1,5mm. SS = 1,25mm

ADVANTAGES:

(In addition to LOE-75)

A strong ladder for heavy load.

Stdr. material thickness:
HDG = 1,5mm. SS = 1,25mm

Type/bredde Type/width	HDG Art. no.	SS Art. no.
LOE100-200	1303360	1303365
LOE100-300	1303361	1303366
LOE100-400	1303362	1303367
LOE100-500	1303363	1303368
LOE100-600	1303364	1303369

BELASTNINGSDATA LOE-100.

Lasteevne pr. m: Tabellen viser maksimalt tillatt belastning ved 1,25 og 1,5 mm material, inkludert sikkerhetsfaktor 1,7 og maksimalt 1% nedbøyning.

LOAD DATA LOE-100.

Capacity per m: The table shows maximum allowed safe working load for 1,25 and 1,5 mm material thickness, including a safety factor of 1,7 and maximum 1% deflection.



Opphengsavst. Support spacing	LOE-100* HDG kg/m	LOE-100* SS kg/m
2,0 m	321	316
3,0 m	217	188
4,0 m	119	94

*) SWL: Safe Working Load

TOE-100:

Lengde/length: L 6m + (3m)

Type/bredde Type/width	L	HDG Art. no.	SS Art. no.
TOE100-200-3		86729	86734
TOE100-300-3		86730	86735
TOE100-400-3		86731	86736
TOE100-500-3		86732	86737
TOE100-600-3		86733	

86738

FORDELER:

(I tillegg til LOE-55, -75 og -100)

Leveres og i 6m standard lengde.

Stdr. materialtykkelse: 1,5mm

Ekstra kraftige trinn.

ADVANTAGES:

(In addition to LOE-55, -75 og -100)

Also supplied stdr. in 6m length.

Stdr. material thickness: 1,5mm

Extra strong rungs.

Type/bredde Type/width	L	HDG Art. no.	SS Art. no.
TOE100-200-6		1303370	1303375
TOE100-300-6		1303371	1303376
TOE100-400-6		1303372	1303377
TOE100-500-6		1303373	1303378
TOE100-600-6		1303374	

1303379

BELASTNINGSDATA TOE-100.

Lasteevne pr. m: Tabellen viser maksimalt tillatt belastning ved 1,5 mm material, inkludert sikkerhetsfaktor 1,7 og maksimalt 1% nedbøyning.

LOAD DATA TOE-100.

Capacity per m: The table shows maximum allowed safe working load for 1,5 mm material thickness, including a safety factor of 1,7 and maximum 1% deflection.

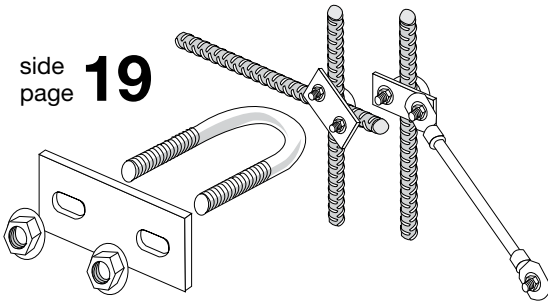


Opphengsavst. Support spacing	TOE-100* HDG kg/m	TOE-100* SS kg/m
3,0 m	221	266
4,5 m	78	82
6,0 m	45	46

*) SWL: Safe Working Load

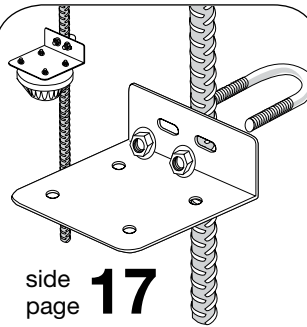
Alle tester er utført i henhold til IEC 61537.
All tests are according to IEC 61537.

side
page **19**



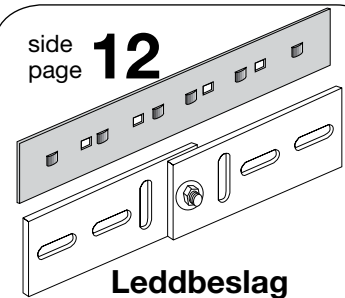
Stabilisering for fjellbolt
Stabilizing of Rock Bolt

side
page **17**

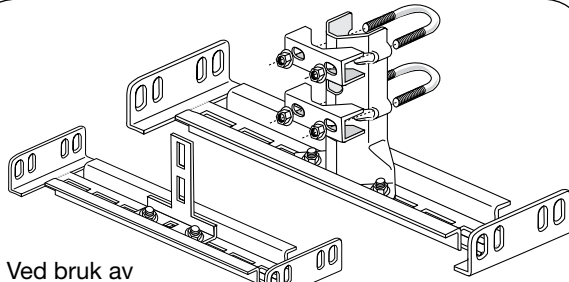


Varmedetektor
Heat Detector

side
page **12**



Leddbeslag
og skjøtelasker
Hinge and
Splice Plates

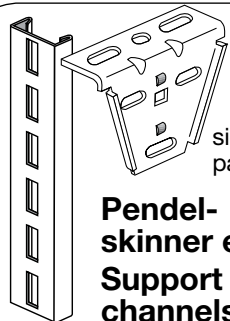


Ved bruk av disse konsollene kan armaturen plasseres fritt i innkjøringssonen.
By using these brackets the armatures are not restricted allowing free positioning, especially in the gate zone.

side
page **11**

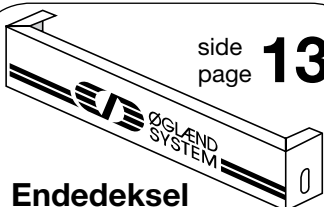
Lavtbyggende konsoller
Consoles with low Descander

side
page **10**



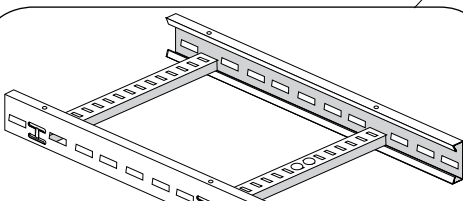
Pendel-
skinner etc.
Support
channels etc.

side
page **13**



Endedeksel
End Cover

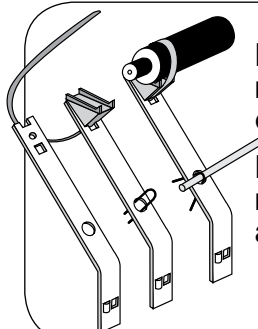
side
page **6**



LOE Kabelstige
LOE Cable Ladder

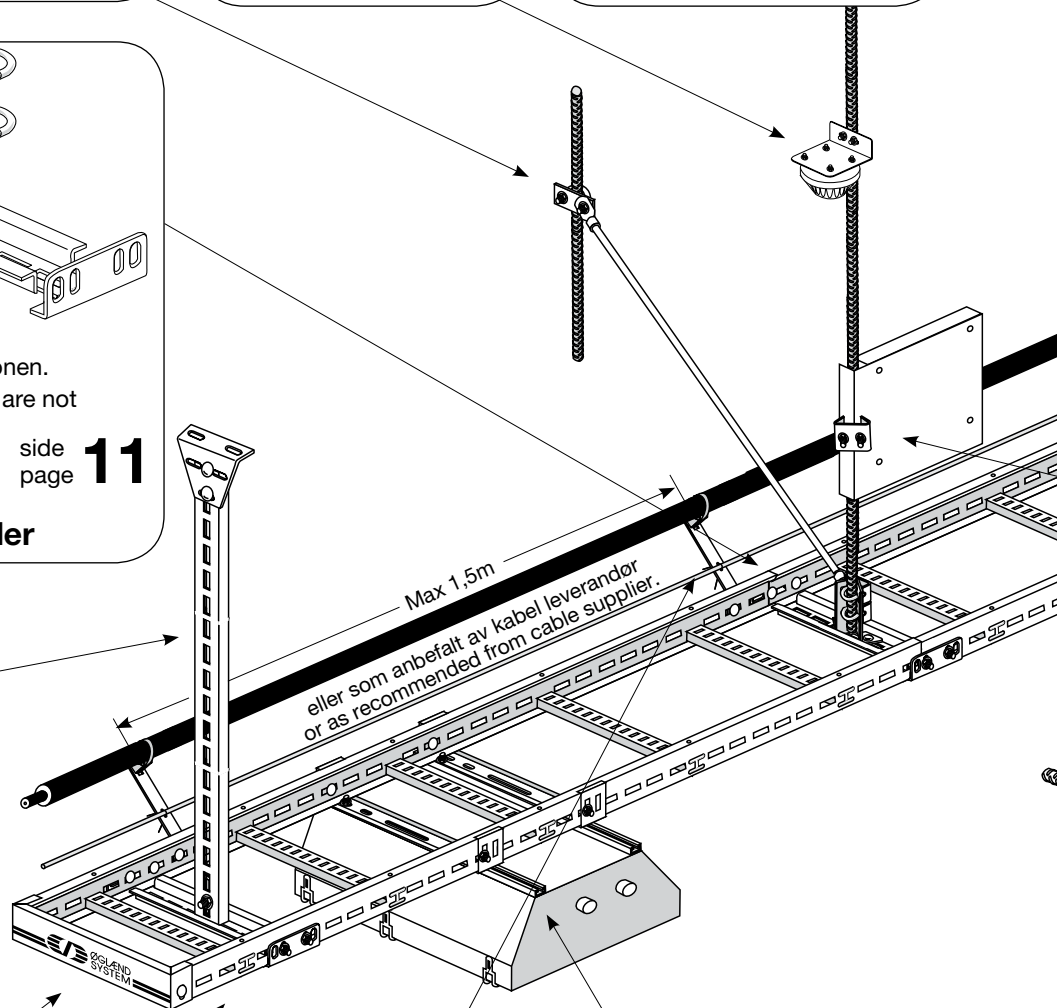
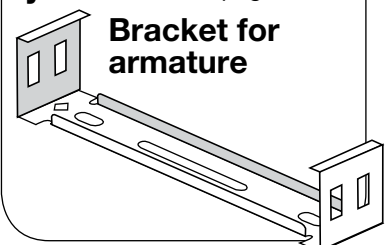
Feste for
radiokabel
og antenner
Bracket for
radio cable
and aerals

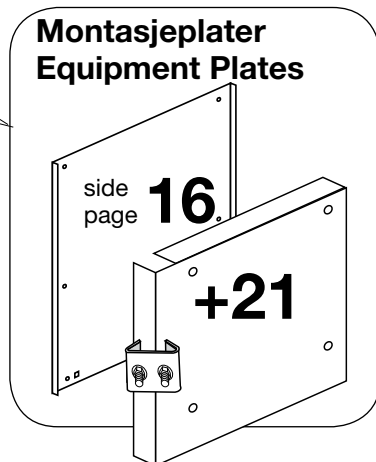
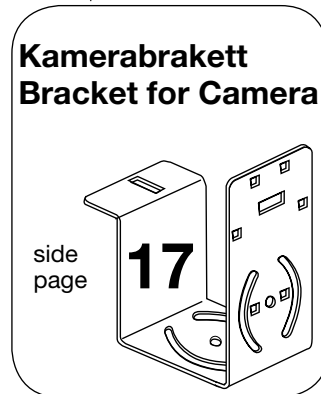
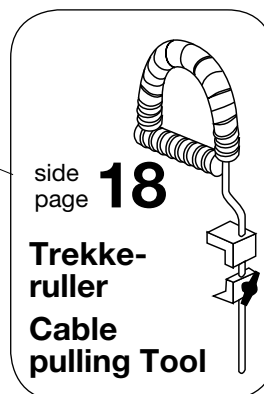
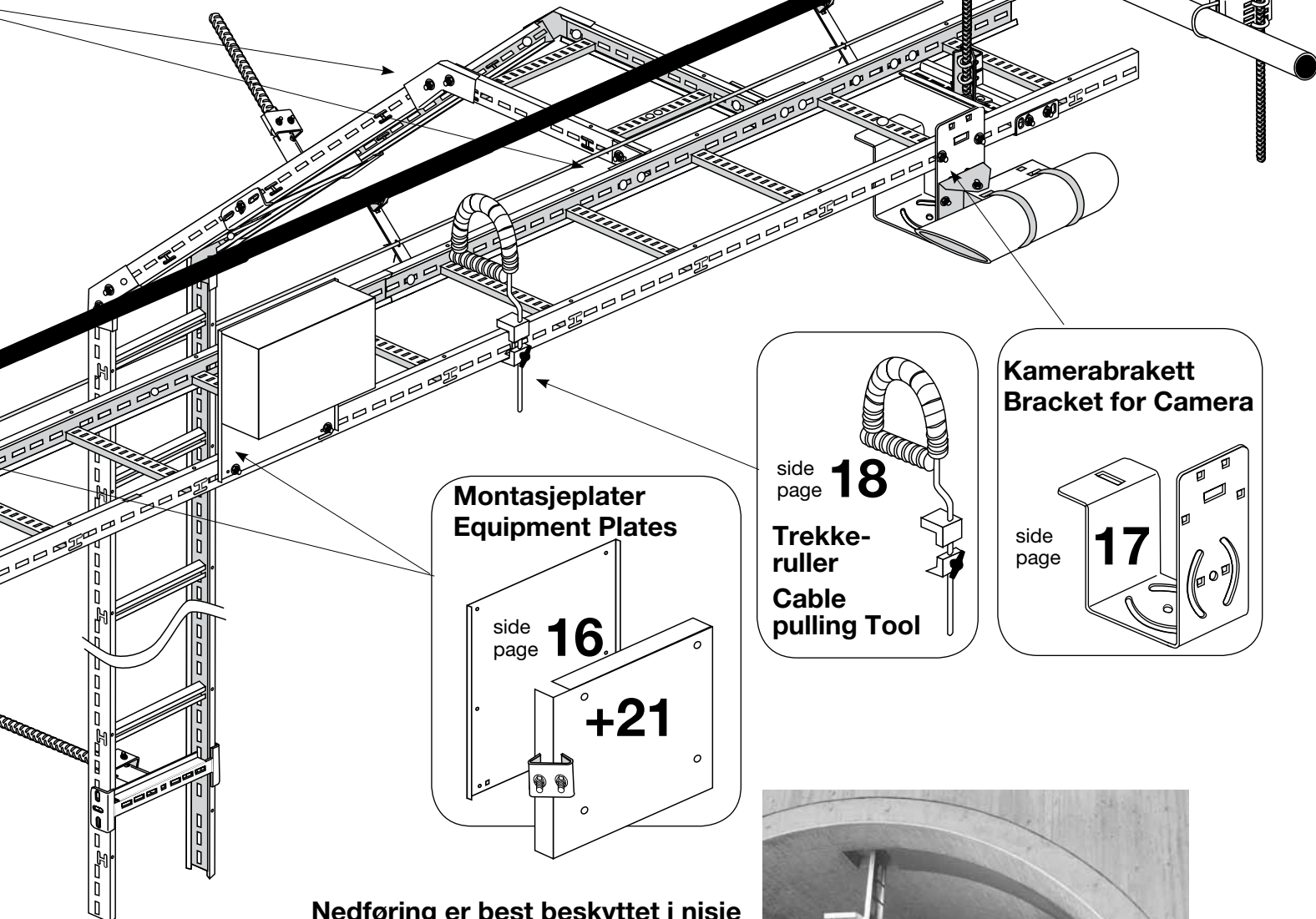
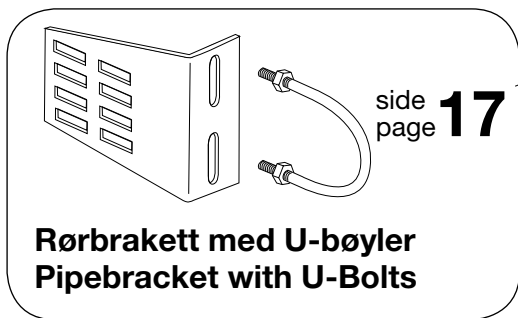
side
page **17**



Feste for
lysarmatur side
page **14**

Bracket for
armature





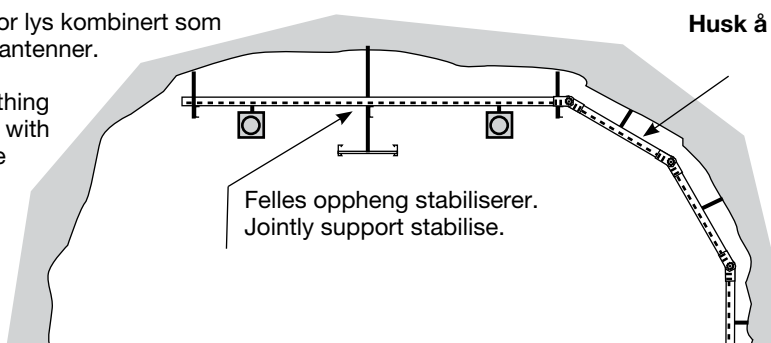
Nedføring er best beskyttet i nisje Down route is best protected in a safety recess

Bemerk egen kabelføringsnisje med deksel.
Hindrer hæverk og påkjørselskader.
Remark special cable support in a safety recess in
the concrete lining with cover to prevent
malicious damage or by vehicle.



Forsyning av hovedtrasé for lys kombinert som
oppheng for mobiltelefon-antennener.

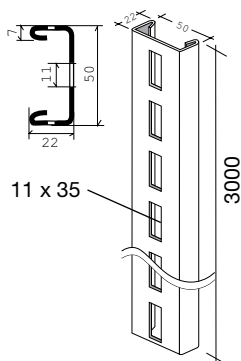
Jointly support of main lighting
installation in combination with
antennas for mobile phone
signals.



Husk å beskytte nedføringen.
Se foto over.

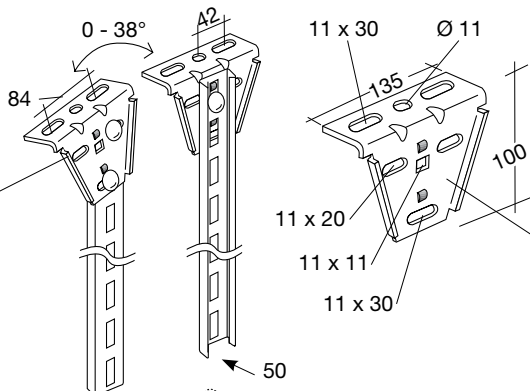
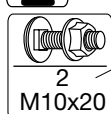
Remember to protect
the cable support.
See photo above.

S-M CH50-1-3000



Pendelskinne / Channel

Type	HDG Art. no.	SS Art. no.
S-M CH50-1-3000	1371684	1371687

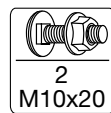


Takfeste / Ceiling Bracket

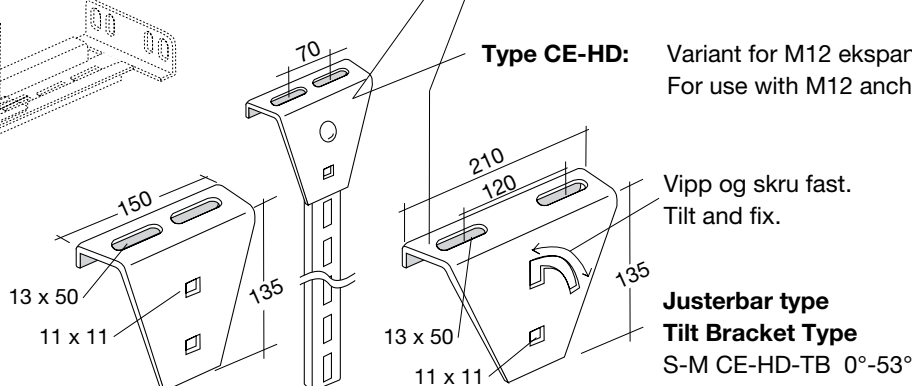
S-M CE-SD er justerbart for pendelskinne 0°-38°
S-M CE-SD is adjustable for channel 0°-38°

Type	HDG Art. no.	SS Art. no.
S-M CE-SD	1372150	1372385
S-M CE-HD	86455	86453
S-M CE-HD-TB		SP 3837A

Type CE-HD: Variant for M12 ekspansjonsbolt
For use with M12 anchor concrete

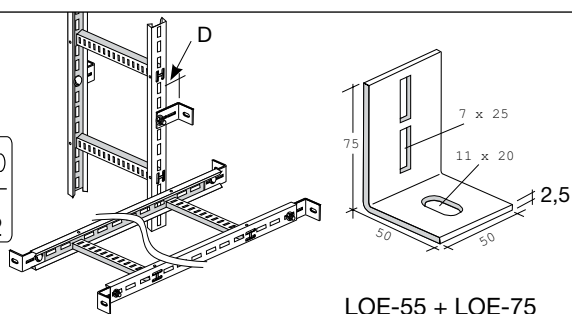
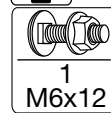
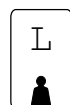


SNI



Vipp og skru fast.
Tilt and fix.

**Justerbar type
Tilt Bracket Type**
S-M CE-HD-TB 0°-53°

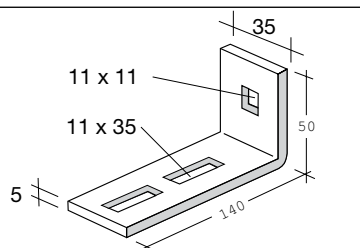
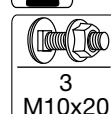


LOE-55 + LOE-75

Avstandsbrakett Bracket for Wall distance

Type	PG Art. no.	HDG Art. no.	SS Art. no.	AL Art. no.
S-LOE WD	1304466	1304467	1304468	On req.

Distanse D fra stige til vegg 20-40 mm.
Distance D from ladder to wall 20-40 mm.



LOE-100 + TOE-100

Opphengsvinkel / Angle Bracket

Type	HDG Art. no.	SS Art. no.	AL Art. no.
S-SPB AB-50x140-10	1301081	1304469	On req.

For vertikalmontasje til betong.
Distanse fra stige til vegg 27,5-52,5 mm.
For vertical fix to concrete.
Distance from ladder to wall 27,5-52,5 mm.

KONSOLL for pendeloppheng

Kraftig konsolltype som bygger minimalt under stige

Mange kombinasjonsmuligheter

Perforert bunn muliggjør rør oppheng

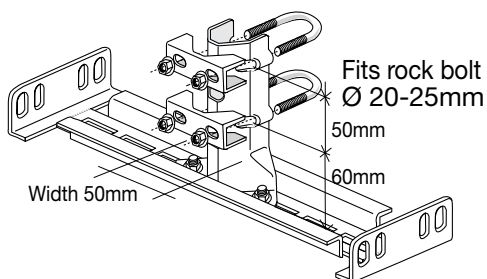
Regulerbar sideveis ved skjeve fjellbolter

Kabelstigen festes til konsollen med 2 stk. skruer som bestilles separat. For LOE-55 og LOE-75, 2 stk. M6x12.

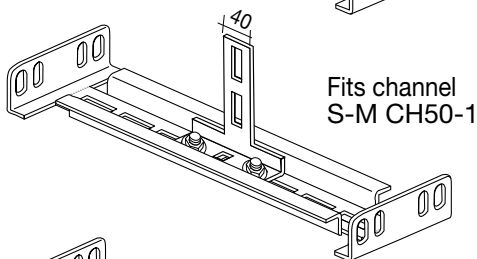
For LOE-100 og TOE-100, 2 stk. M10x20.



Komplett
Complete

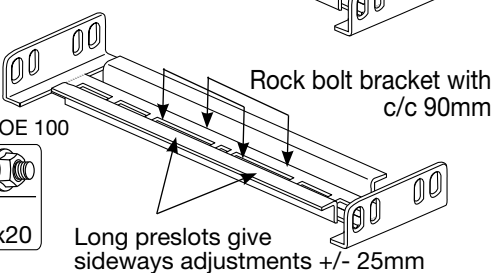
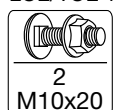
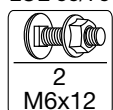


Komplett
Complete

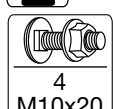
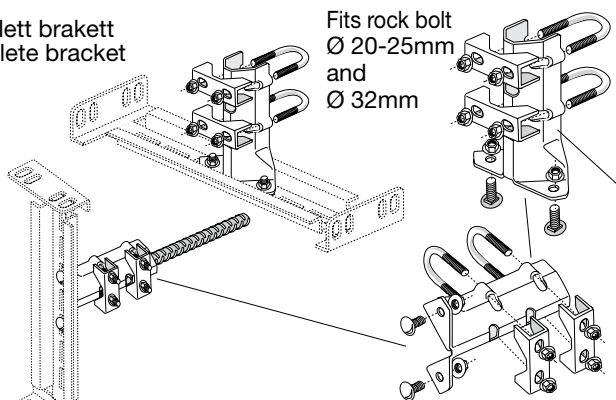


LOE 55/75

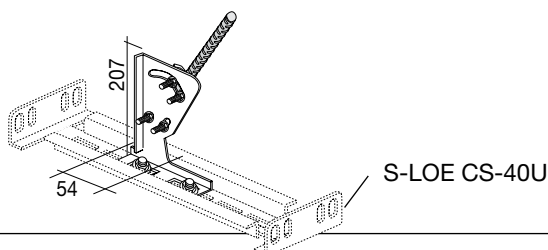
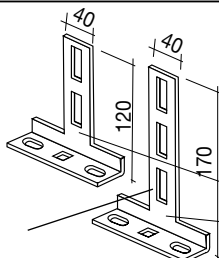
LOE/TOE 100



Komplett brakett
Complete bracket



Justerbar i høyde inntil 60mm
Adjustable in height up to 60mm



BRACKET for central support

Strong console with minimum descender

Many various combinations

Preslotted bottom permit of pipe support

Adjustable sideways to adapt out of line bolts

Fix ladder to bracket with 2 pc. of screws which order separatly. For LOE-55 and LOE-75, 2 pc. M6x12.

For LOE-100 and TOE-100, 2 pc. M10x20.

for fjellbolt / rock bolt

Type/bredde Type/width	HDG Art. no.	SS Art. no.
S-TOE CS-RO-200	1306860	1306865
S-TOE CS-RO-300	1306861	1306866
S-TOE CS-RO-400	1306862	1306867
S-TOE CS-RO-500	1306863	1306868
S-TOE CS-RO-600	1306864	1306869

for pendelskinne / for Pendular Channel

S-TOE CS-CH-200	1306870	1306875
S-TOE CS-CH-300	1306871	1306876
S-TOE CS-CH-400	1306872	1306877
S-TOE CS-CH-500	1306873	1306878
S-TOE CS-CH-600	1306874	1306879

Pendelkonsoll / Central Support

S-TOE CS-40U-200	1372125	1372360
S-TOE CS-40U-300	1372126	1372361
S-TOE CS-40U-400	1372127	1372362
S-TOE CS-40U-500	1372128	1372363
S-TOE CS-40U-600	1372129	1372364

Fjellboltfeste for pendelkonsoll

Bracket for Rock Bolt for central support

Type	HDG Art. no.	SS Art. no.
S-TOE RO-CS-40-Ø25	1304464	1304465
S-TOE RO-CS-40-Ø32		85554

I bruk for vertikal føring – eller oppheng fra underkant stige.
In use for Vertical Routes – or support from below ladder.

Leverte fester kan ha designnavn fra illustrerte.
Supplied bracket design may vary from shown.

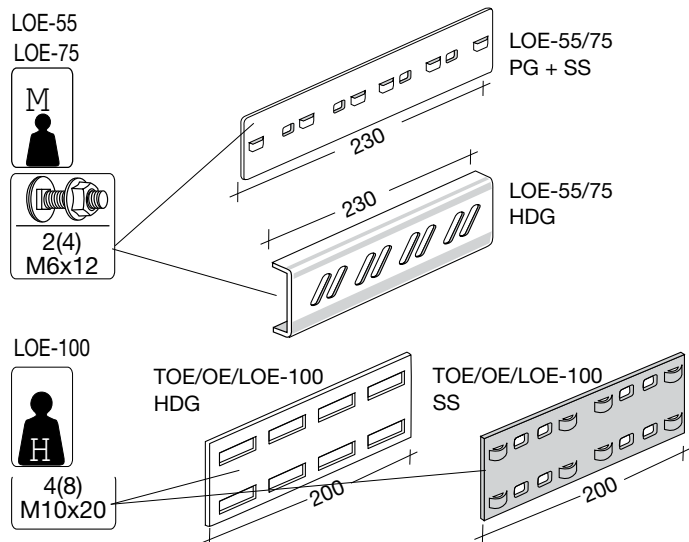
Vinkelbrakett til skinne S-M CH50-1

Type	HDG Art. no.	SS Art. no.
S-LOE AB-35x120-10	1304462	1304463
S-LOE AB-35x170-10		1306880

Vippebrakett / Tilt Bracket for Rockbolt

Type/width	HDG Art. no.	SS Art. no.
S-TOE RO-TB	1372787	83109

Eliminerer behov for spesial tiltbart armaturoppheng.
Eliminates the need for special fixed angle armature support.



Skjøtelasker

Skjøtelasker med skruer gir en meget solid forbindelse.

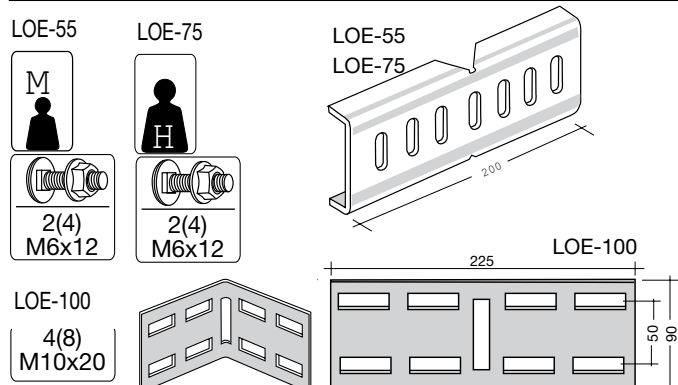
Splice Connectors

Joint plates for bolting to give very strong joints.

Type	PG Art. no.	HDG Art. no.	SS Art. no.	AL Art. no.
LOE-55 SC	1371551	1371552	1372370	77977
LOE-75 SC		1372025	1372371	78274
LOE-75 SC-HD		1303327	1303329	
LOE-100 SC		1371678	1371681	
LOE-100 SC-HD		1303328	1303330	

✓ Skjøtelasker som opptar ekspansjon. Se s. 24.

✓ Splice connectors obtaining expansion. See p. 24.



Hengse horisontal

Beslag for valgfri horisontal vinkelmontering.

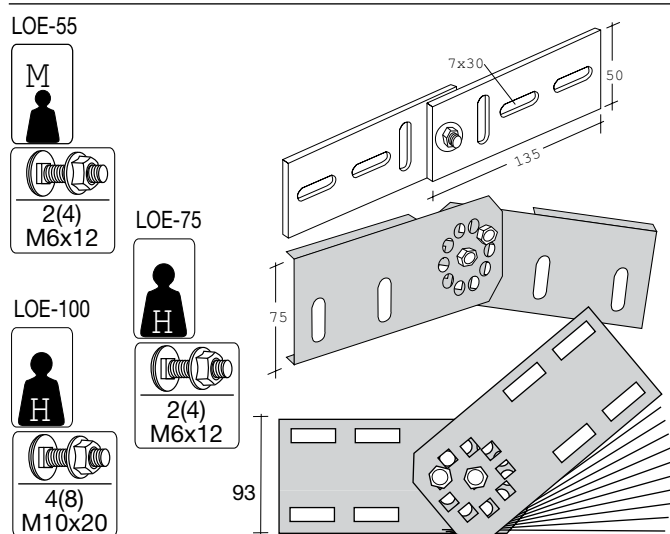
Bøyes etter behov.

Hinge Horizontal

Plate for alternative angle horizontal installation.

Bends to fit the necessary degrees.

Type	PG Art. no.	HDG Art. no.	SS Art. no.	AL Art. no.
LOE-55 HH	1371598	1371553	1372372	78112
LOE-75 HH		1372026	1372373	78555
LOE-100 HH		1303331	1303332	



Hengse vertikal

Beslag for valgfri vertikal vinkelmontering.

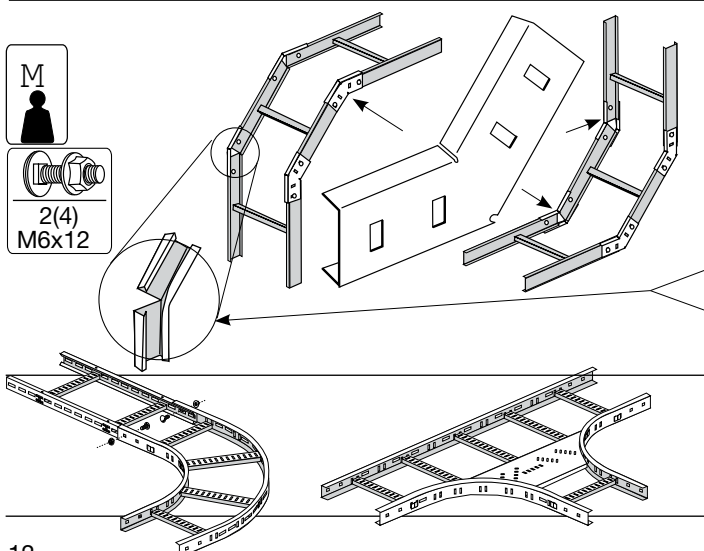
Hinge Vertical

Hinges for alternative vertical angle installations.

Type	PG Art. no.	HDG Art. no.	SS Art. no.	AL Art. no.
LOE-55 HV	1371555	1371554	1372374	78014
LOE-75 HV		1372027	1372375	78556
LOE-100 HV		1303333	1371679	

Patentert leddbeslag med stabilitet tilsvarende sveiseforbindelse og som med kombinasjonen 9 og 10 hull gir justeringsmulighet i trinn på 4°.

Patented vertical hinge with same stability as welded. The combination of 9 and 10 holes gives adjustment in steps of 4°.



45° Vinkelbeslag 45° Riser Bracket

Type	PG Art. no.	HDG Art. no.	SS Art. no.	AL Art. no.
SPB-LOE RB-45	1371540	1371541	1372376	

Bruk stdr. stige. Kutt vengene nesten over og bøy i posisjon. Skru fast med vertikal beslag.

Use stdr. ladder. Cut the side pieces almost through, then bend into position and fix with riser brackets.

Bends and Combi Risers

Se LOE-stigekatalog / See LOE-ladder catalogue

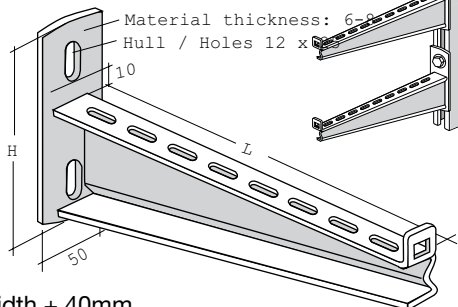


Side 24
Page 24

H = 94 (100-300)
H = 113 (400-600)

L = Type Bredde/Width + 40mm

Festes med / Fix with: 1 bolt max Ø 12mm



Veggkonsoll for LOE-, RZ-stiger og SPB- baner.

Type nr. angir stigebredde. Sikkerhetsfaktor 2.

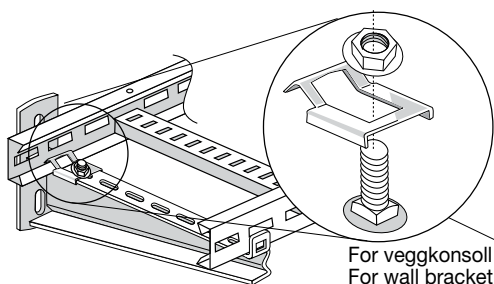
Cantilever Arm for LOE, RZ ladders and SPB trays.

Type no. indicates ladder width. Safety factor 2.

Type L	HDG Art. no.	SS Art. no.	Maks last Max. load (kg)	Weight SS (kg)
S-M CA-35-100	1372689	1302442	350	0,4
S-M CA-35-200	1372690	1302443	250	0,5
S-M CA-35-300	1372691	1302444	200	0,6
S-M CA-35-400	1372692	1302445	175	0,8
S-M CA-35-500	1372693	1302446	150	0,9
S-M CA-35-600	1372694	1302447	125	1,1



1
M6x12



For veggkonsoll
For wall bracket

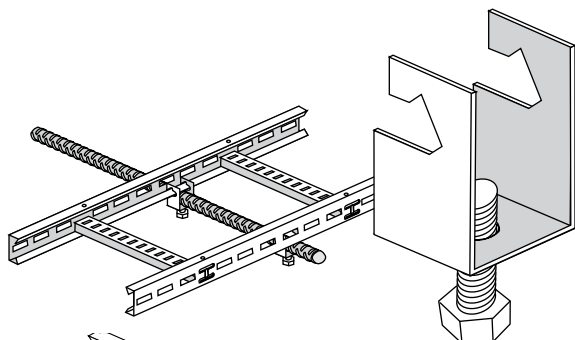
Stigefeste

Klips for skruefeste til standard veggkonsoll og pendelkonsoll.

Fixing clamp

Clamp for bolting to standard wall bracket and pendular console.

Type	HDG Art. no.	SS Art. no.
S-LOE FC-CA-35	1371556	1372384



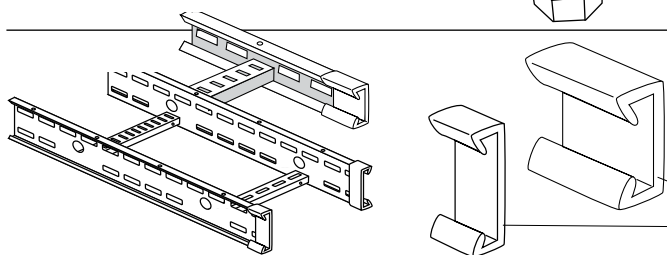
Klammer for fjellbolt

for Ø 25 mm. For feste på horisontale fjellbolter

Clamp for Rock Bolt

For fixing to horizontal rock bolts

Type	HDG Art. no.	SS Art. no.
TOE RO-FC		85172



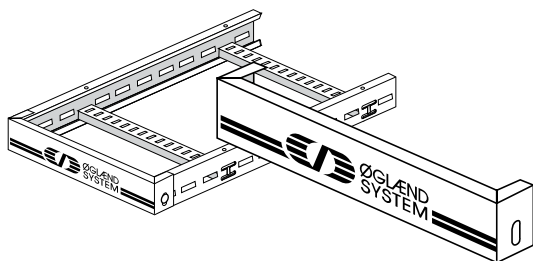
Endebeskyttelse Gul plast

End Protection Yellow plastic

Type	Art. no.
A-LOE 55 EP	1371597
A-OE 100 EP	80415



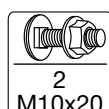
2
M6x12



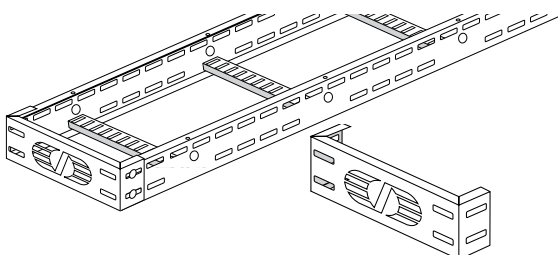
Endedeksel Typenr. angir stigebredde

End Cover Type no. indicates ladder width

Type	LOE-55/75 Art. no. SS
A-LOE55/75 EC-200	89297
A-LOE55/75 EC-300	89298
A-LOE55/75 EC-400	89299
A-LOE55/75 EC-500	89300
A-LOE55/75 EC-600	89301



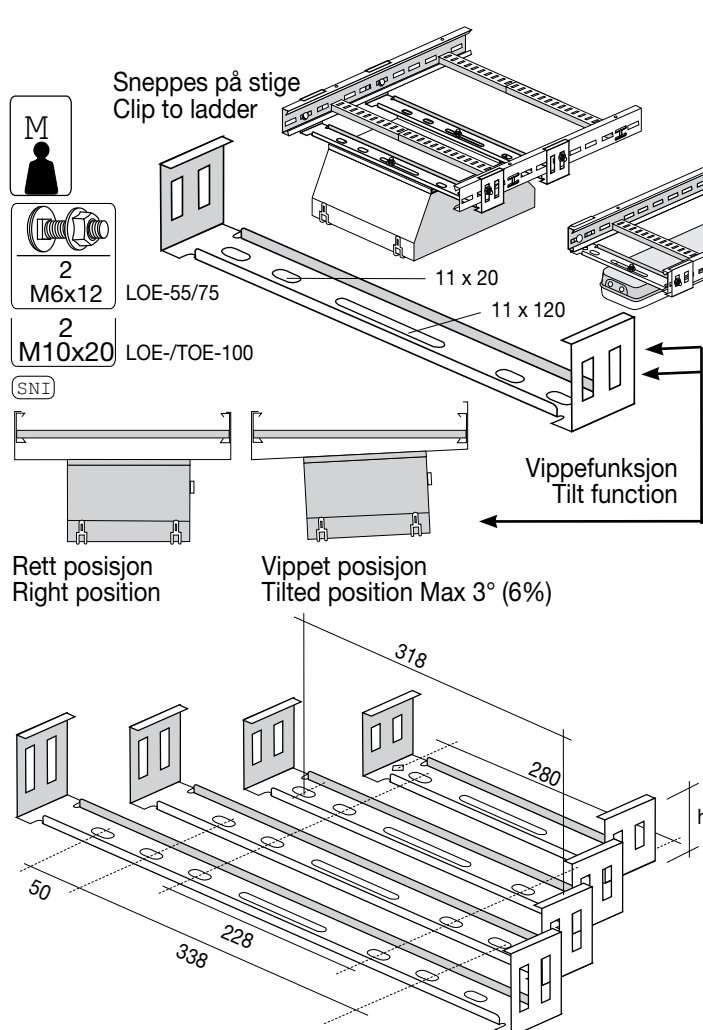
2
M10x20



Type*	Art. no. HDG	Art. no. SS
TOE100 EC-200	86378	86373
TOE100 EC-300	86379	86374
TOE100 EC-400	86380	86375
TOE100 EC-500	86381	86376
TOE100 EC-600	86382	86377

*) Passer og LOE-100 / Also fit LOE-100

Feste for lysarmatur Fixing of Lamp Armature



Lysbøyle For damp Lampe og lysrørarmatur.
Typenr. angir stigebredde.

Bracket for Luminaries For sodium lamp and light armature. Type no. indicates ladder width.

Type	h	HDG Art.no.	SS Art.no.
A-LOE55 LB-300	70	85148	84895
A-LOE55 LB-400	76	85149	84896
A-LOE55 LB-500	81	85150	84897
A-LOE55 LB-600	86	89399	89398
A-LOE75 LB-300	90	85151	85154
A-LOE75 LB-400	96	85152	85155
A-LOE75 LB-500	101	85153	85156
A-LOE75 LB-600	106	89401	89400
A-TOE100 LB-300	115	84704	84700
A-TOE100 LB-400	121	84705	84701
A-TOE100 LB-500	126	84706	84702
A-TOE100 LB-600	131	84707	84703

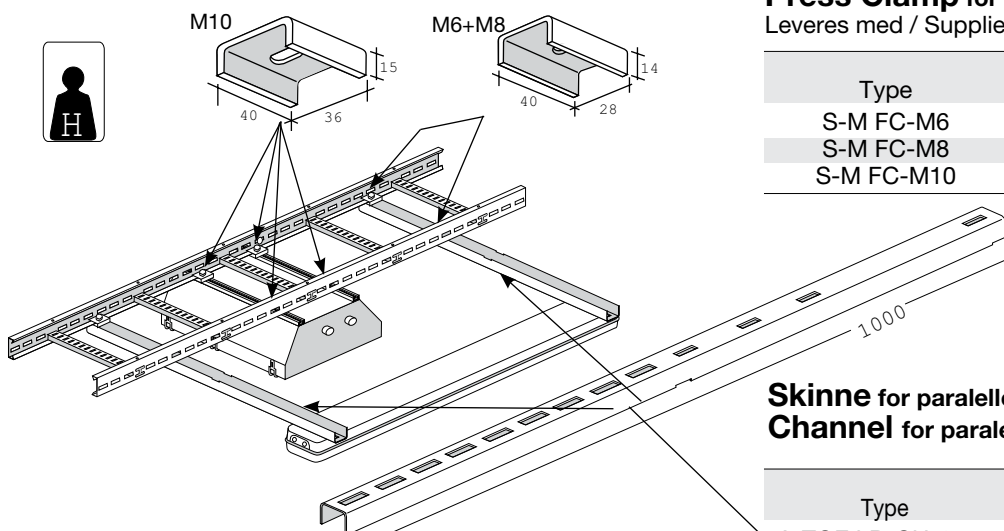
Brukes ved bred stige og smalere damp lamper/armaturer.
To support narrow h.p. sodium lamps/armatures to broader ladders.

KLEMBAKKE for lysrørarmaturer

Press Clamp for lighting support

Leveres med / Supplied in: Ø 7mm + Ø 10mm

Type	HDG Art. no.	SS Art. no.
S-M FC-M6	1372048	1372148
S-M FC-M8	1372049	1372149
S-M FC-M10	1372050	1372147



**For dagslys i innkjøringsone.
For daylight in drive-in zone.**

Skinne for paralleloppheng av lysrørarmatur Channel for parallellighting support

Type	HDG Art. no.	SS Art. no.
A-TOE LB-CH-1000	1372047	1304497

Passer til breddene / Fits the widths: 300-400-500mm

Stabiliseringsstag for stiger Stabilising of Ladders

Komplett

Complete Type: A-TOE RO-BB Art.nr.: 89593 SS

Inneholder:

2 stagbraketter,
1m gjengestag M8,
1 U-bolt M8,
6 flensmuttere M8.

Include:

2 Bracing Brackets,
1m treaded rod M8,
1 U-bolt M8,
6 flange nuts M8.

Husk: For bruk på
LOE-55/75 bestill

1 låseskrue M6x20.
For LOE and TOE-100
bestill

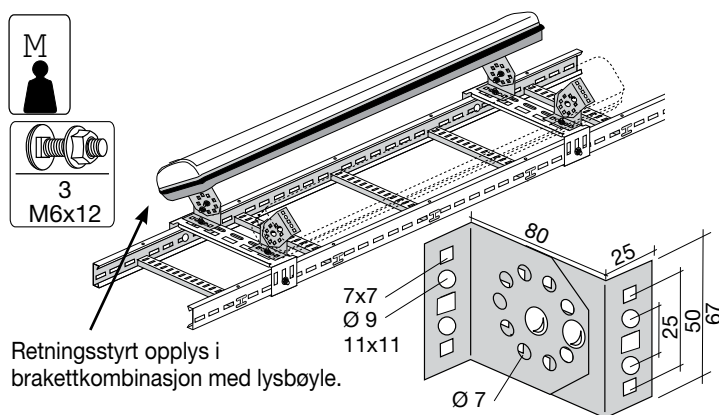
1(2) låsebolt M10x20.

Remember: For use on
LOE-55/75 order:

1 locking screw M6x20.
For LOE and TOE-100
order:

1(2) locking screw M10x20.

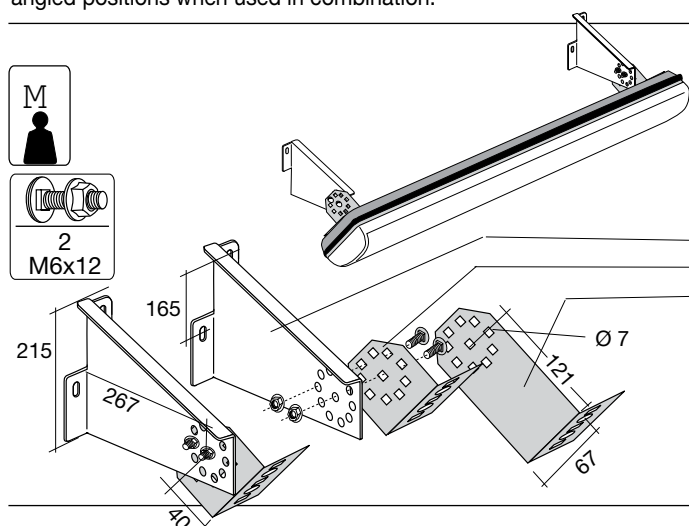
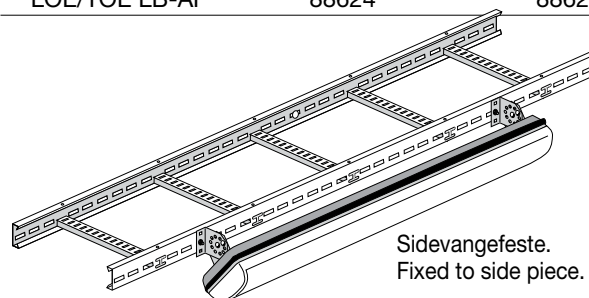
Se og øverst på side 19
Also see page 19 top



Using hinge brackets allows many
angled positions when used in combination.

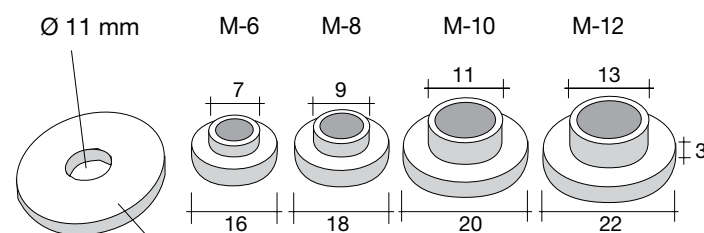
Hengslebrakett / Hinge Bracket

Komplett / Complete Type	HDG Art. no.	SS Art. no.
LOE/TOE LB-AP	88624	88623



Vegghengslebrakett Hinge Bracket for Wall

Type	HDG Art. no.	SS Art. no.
A-TOE LB-CA	84780	84781
A-TOE LB-AP-40	84786	84787
A-TOE LB-AP-121	84782	84783



Isolasjonsforinger Insulation Sleeves

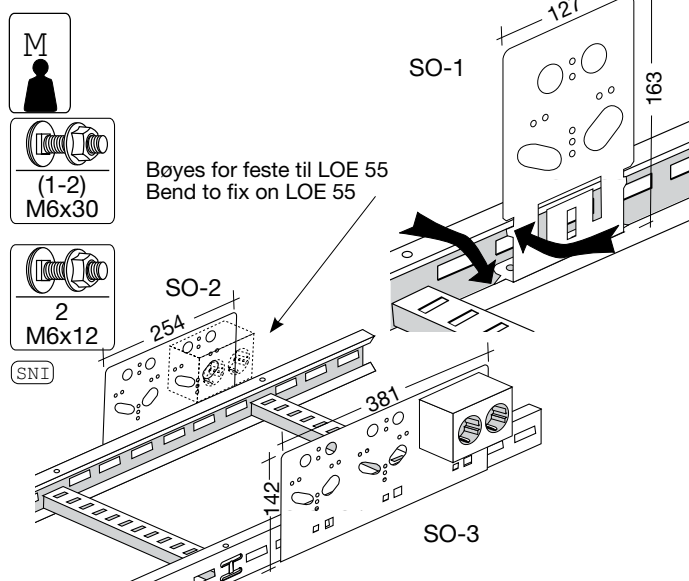
Leveres i PTFE plast i 50 stk./pk.

Supplied in PTFE plastic in 50 pieces/pack.

Type	Art. no.:
A-M IP-M6	1372920
A-M IP-M8	1372921
A-M IP-M10	1372922
A-M IP-M12	1372939
A-M IP-WA-11x22x3	87036

Mot korrosjon / For corrosion protection
Be om egen brosjyre / Ask for special brochure

Braketter/Brackets



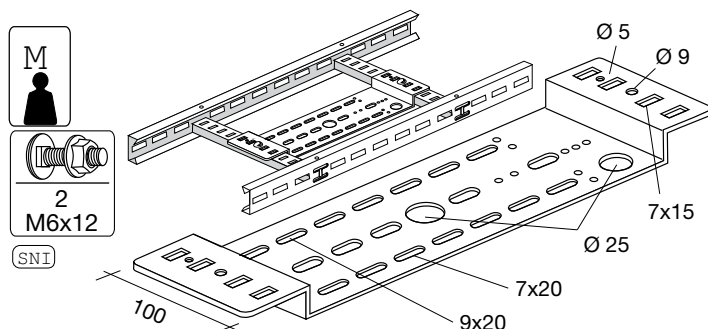
Stikkontaktplater Socket Plates

Type	PG Art. no.	HDG Art. no.	SS Art. no.	AL Art. no.
A-SPB/LOE SO-1*	1301082	1371592	1372377	On req.
A-SPB/LOE SO-2*	1303336	1306855	1303337	On req.
A-SPB/LOE SO-3**	1306856	1303338	1303339	On req.

*) Monteres på LOE-55 med prestansede klipsfester.
Monteres på LOE-75 med skruer (**ikke inkludert**).

Mounts on LOE-55 by preslotted tabs.
Mounts on LOE-75 with screw (not included).

) Monteres med 2 skruer (ikke inkludert**).
ST-U3 har og festehull for koblingsbokser.
Mounts with 2 screws (not included).
ST-U3 has fixing holes to junction boxes.

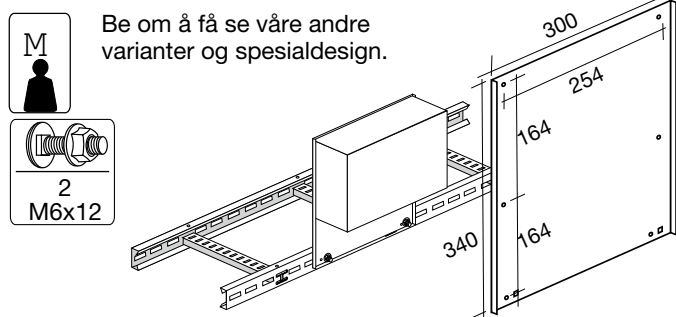


Utstyrsplate Socket Plate

Type	PG Art. no.	HDG Art. no.	SS Art. no.	AL Art. no.
A-LOE SO-RU	1372638	1372056	1372378	78559

Platen legges ned mellom trinnene på stigen og festes med låsebolter eller selvborende skruer.

The plate is placed between the rungs of the ladder and fixed with locking screws or self tapping screws.



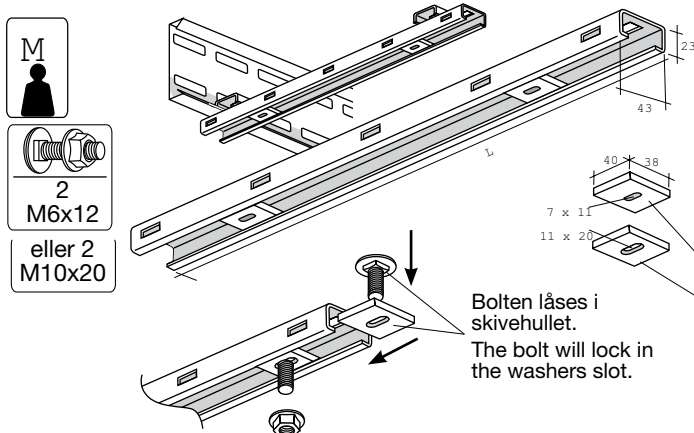
Ask to see our other types and special design.

Boksplate Spør evt. etter egne hullmønstre. Box Bracket Ask for individual design.

Type	HDG Art. no.	SS Art. no.
A-TOE SO-Fibox	85017	85018

Boksen kan festes på begge sider. Tilpasset Fibox 190x280, men kan lett tilpasses andre størrelser.

The box bracket fits either side of ladder. Other sizes available.



Skinne i standard lengder: Support channel in std. lengths:

150 - 300 - 450 - 600 - 750 - 900 mm

Type	HDG Art. no.	SS Art. no.
OE RU-LW-300	1372052	67796
OE RU-LW-600	1372053	67800
OE RU-LW-900	-	67804
MB M6	-	77905
MB M10	78332	78333

Passer alle lysrørarmatur + dampplamper og alle Øglænd Systems stigetyper.

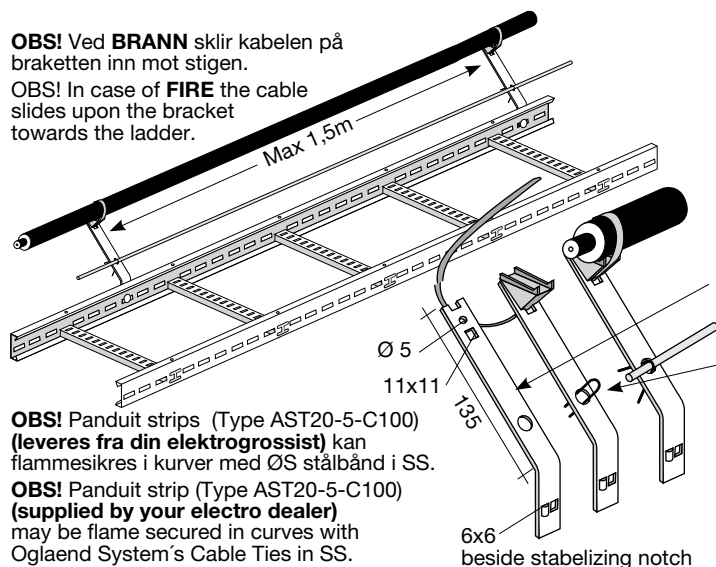
Fits std. light fittings + discharge lamps and all types of Øglænd System's cable ladders.

Ring oss om spesial armatur oppheng.
Call us for special lighting support.

Feste for radiokabel og antenner / Brackets for Radioleak Cable and Aerials

OBS! Ved **BRANN** sklir kabelen på braketten inn mot stigen.

OBS! In case of **FIRE** the cable slides upon the bracket towards the ladder.



OBS! Panduit strips (Type AST20-5-C100) (leveres fra din elektrogrossist) kan flammesikres i kurver med ØS stålband i SS.

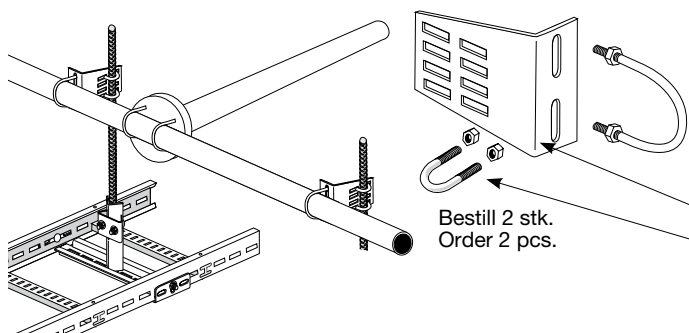
OBS! Panduit strip (Type AST20-5-C100) (supplied by your electro dealer) may be flame secured in curves with Oglaend System's Cable Ties in SS.

Feste for radiokabel Bracket for Radioleak Cable

Type	Art. no. SS	Passer til /Fits to
A-LOE55/75 RC	89530	LOE-55/-75
A-TOE100 RC	89559	LOE/TOE-100

Fire detection cable clip: Art. no.: SP3820

Brannsikker løsning.
Be om tilbud på brakettløsning tilpasset ditt behov.
Fireprotected design.
We offer special bracket design if needed.

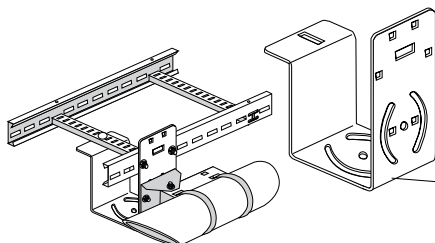


Antenneoppheng / Aerial Support

Type	HDG Art. no.	SS Art. no.
U-bolt 2"	1302354	1302409
PSU 160	1302336	1302392
U-bolt 3/4"	1302350	1302405

Bestill 2 stk.
Order 2 pcs.

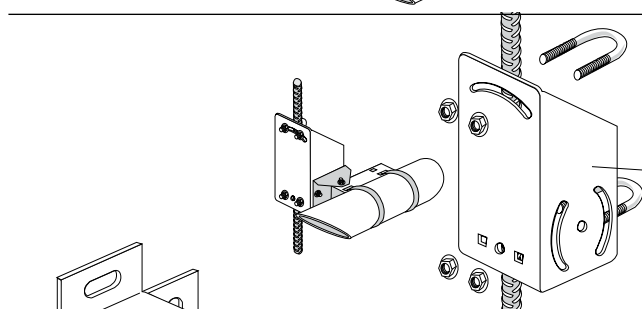
Behov for
kamerahus?
Spør oss!
Any need of
camera houses?
Ask us!



Fester for kamera / Brackets for Camera

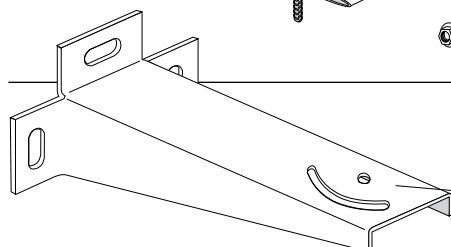
Passer til / Fits to LOE 55 / 75 / 100

Art. no. 89075 SS



Passer til fjellbolt / Fits to rock bolt

Art. no. 89076 SS



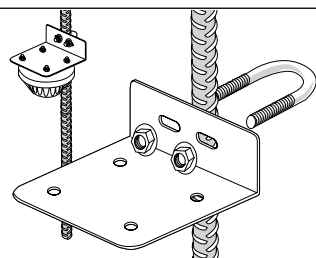
Passer til vegg (og stigevinge på LOE 100 og OE 100).
Fits to wall (and to ladder side piece on LOE 100 and OE 100).

Art. no. 89079 SS

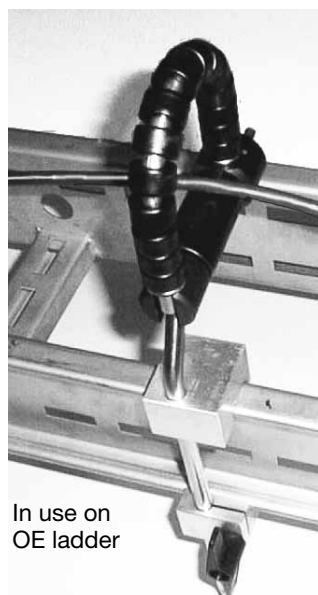
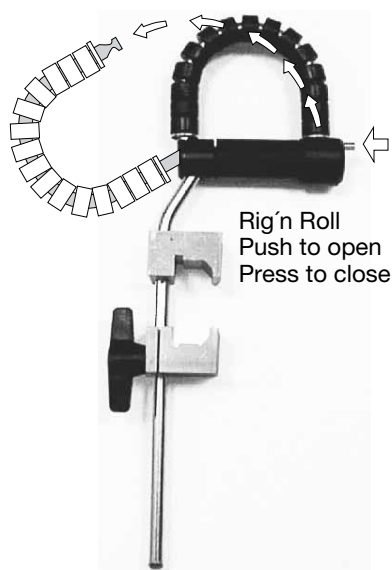
Feste for varmedetektor Bracket for Heat Detector

Passer til fjellbolt / Fits to rock bolt

Art. no. 85567 SS



Diverse utstyr / Various Equipment



«Rig'n roll» Kabeltrekker-rulle «Rig'n roll» Cable Pulling Tool

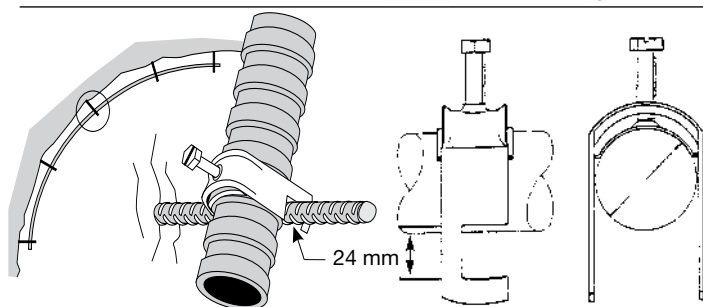
Type	Art. No.
Rig'n Roll size 1. Up to 60mm cables	84629
Rig'n Roll size 2. Up to 120mm cables	84628

Bruk Rig'n Roll til lettere/raskere kabeltrekking:

2 størrelser, for kabler opp til 60mm og opp til 120mm.
Lett å feste til alle våre kabelstiger – uten verktøy.
Lett å åpne og å lukke – uten verktøy.
Enkel håndtering pga liten størrelse og lav vekt (400g).
Ingen løse deler eller skruer.

Use Rig'n Roll for revolutionary speed in cable pulling:

2 sizes, up to 60mm and up to 120mm cables.
Easy to fix to any of our cable ladders – no tools needed.
Easy to open and lock – no tools needed.
Easy to handle due to it's small size and light weight (400g).
No loose parts or screws.

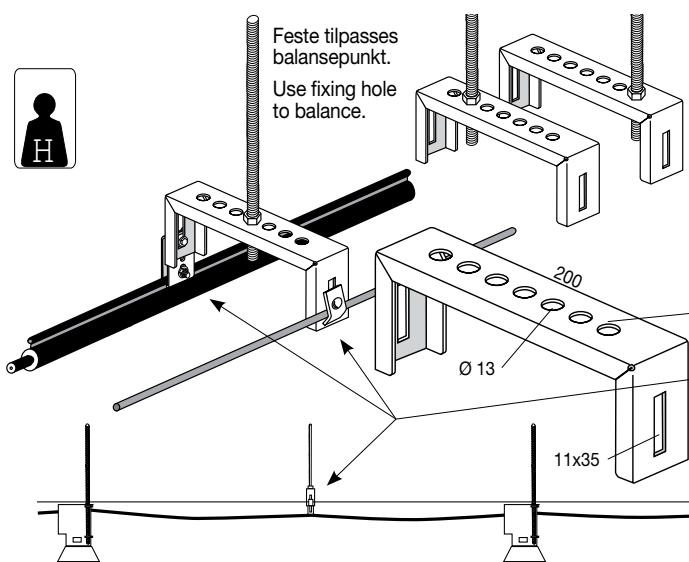


RØRHOLDER / PIPE CLEAT

Type/width	HDG Art. no.	SS Art. no.
RU-V 70		77941

Feste for 2" rør som avgreining fra heng til f.eks. telefon.

Pipe cleat for 2" pipes as drop outs from installation to e.g. telephone.



Mellombøyle for balansert wire oppheng

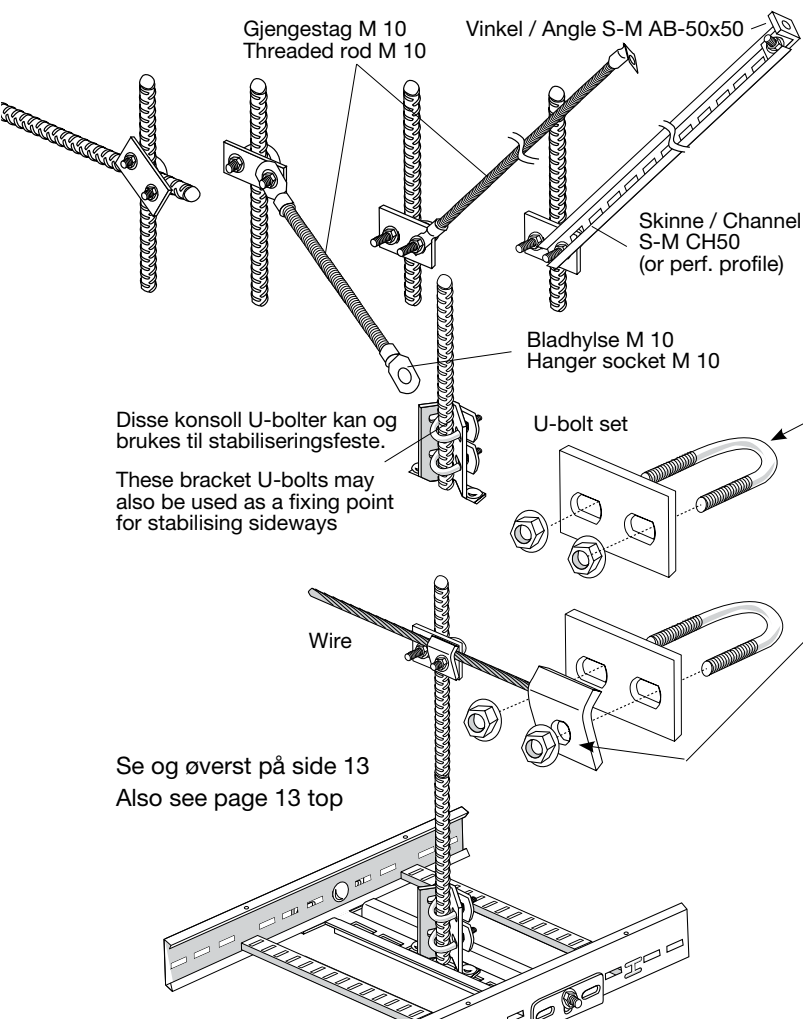
For antenne og wireoppeng ved lang lyspunktavstand.

Intermediate Bracket for Wire Central Support

For support of aerals and wire when long distance between armatures are needed.

Type	HDG Art. no.	SS Art. no.
S-TOE WI-CS	89273	89274

Wirebrakett og Signalkabeloppeng, se neste side.
Wire bracket and Radiating cable support, see next page.



Sideveis stabilisering av fjellbolt Sideways stabilising of Rock Bolts

U-Bolt Set

Type	HDG Art. no.	SS Art. no.
A-TOE RO-SB	1372873	78000

Wire Bracket

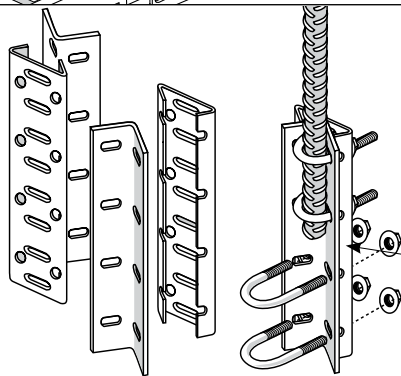
Type	HDG Art. no.	SS Art. no.
A-TOE WI-FC	77378	83080

Gjengestag / Threaded Rod

Type	HDG Art. no.	SS Art. no.
S-M TR-10-1000	1372743	79134
S-M TR-10-2000	1372742	

Bladhylse / Hanger socket

Type	HDG Art. no.	SS Art. no.
S-M HS-M10		1900666



Skjøting av fjellbolt / Splice for Rock Bolt

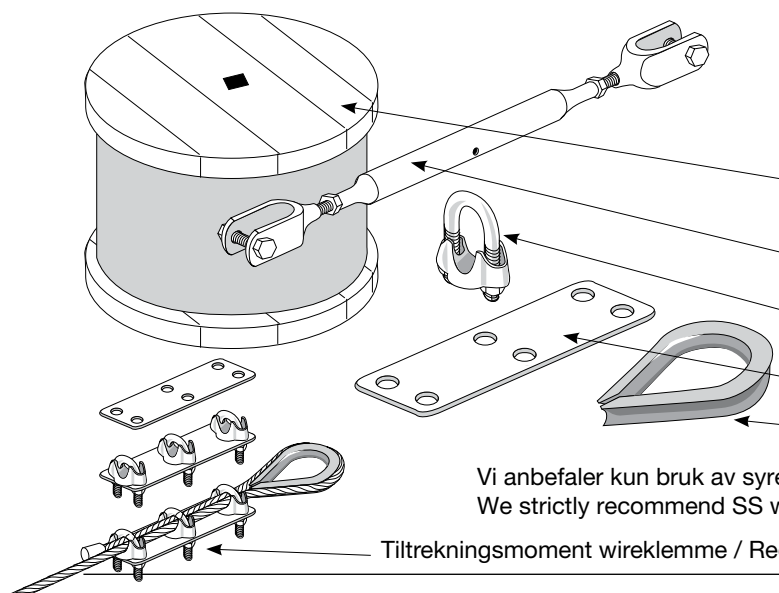
Passer til / Fits to: Ø 20-25 mm.

Type	HDG Art. no.	SS Art. no.
A-TOE RO-SC	85570	85573

Leveres komplett med 2 deler, 4 U-bolter og muttere. Supplied complete with 2 parts, 4 U-bolts and nuts.

7 mm SYREFAST WIRE med tilbehør 7 mm SS WIRE with accessories

7mm wire 1000m:	Type A-TOE WI-1x19	Art. no.: 85031
7mm wire 100m:	Type A-TOE WI-1x19	Art. no.: 85029
Strekfisk M12: Turnbuckle M12:	Type A-TOE WI-TB-M12	Art. no.: SP1474
Wireklemme Guy Clamp	Type A-TOE WI-GC-8	Art. no.: SP1614B
Kleplate Clamp Plate	Type A-TOE WI-GC-SB-8	Art. no.: 83773
Kaus Thimble	Type A-TOE WI-TH-8	Art. no.: SP1614C



Vi anbefaler kun bruk av syrefast wire grunnet korrosjonsrisiko ved varmgalvanisert. Se s. 24.
We strictly recommend SS wire because of corrosion risk with HDG qualities. See p. 25.

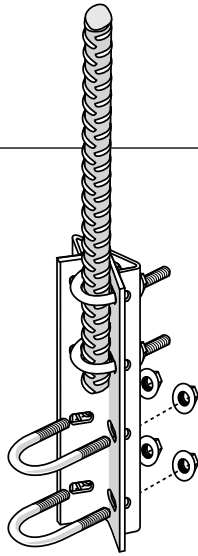
Tiltrekningsmoment wireklemme / Required torque for the Guy Clamp: 6-7 Nm

„Alt i ett“

„All in one“

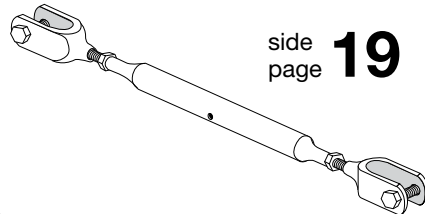
**Skjøting av fjellbolt
Splice for Rock Bolt**

side
page **19**



**Stabiliseringsutstyr
Stabilising Equipment**

side
page **19**



side
page **19**

**7 mm
syrefast
bardun wire.
Be om tilbud.
7 mm acid proof
guy wire.
Ask for offer.**

Seperat
order

Seperat
order

**Be om kunde-
tilpasset design**

**Ask for client
adapted design**

**Kombibrakettløsning
Combi Bracket Solution**

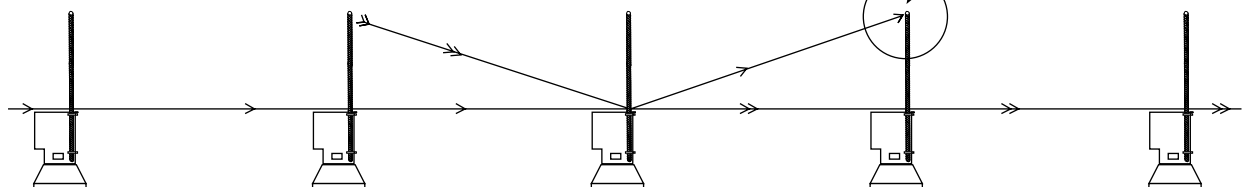
Type	Art. no. HDG	Art. no. SS
TOE-	85157	85158

**Tilpasset
Fibox
190 x 280
+
280 x 280**

**Prinsipp: Wirestrekk ved Kombibrakett
Principle: Wire tension with Combi bracket**

**Forankring av wire
Anchorage of wire**

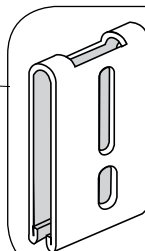
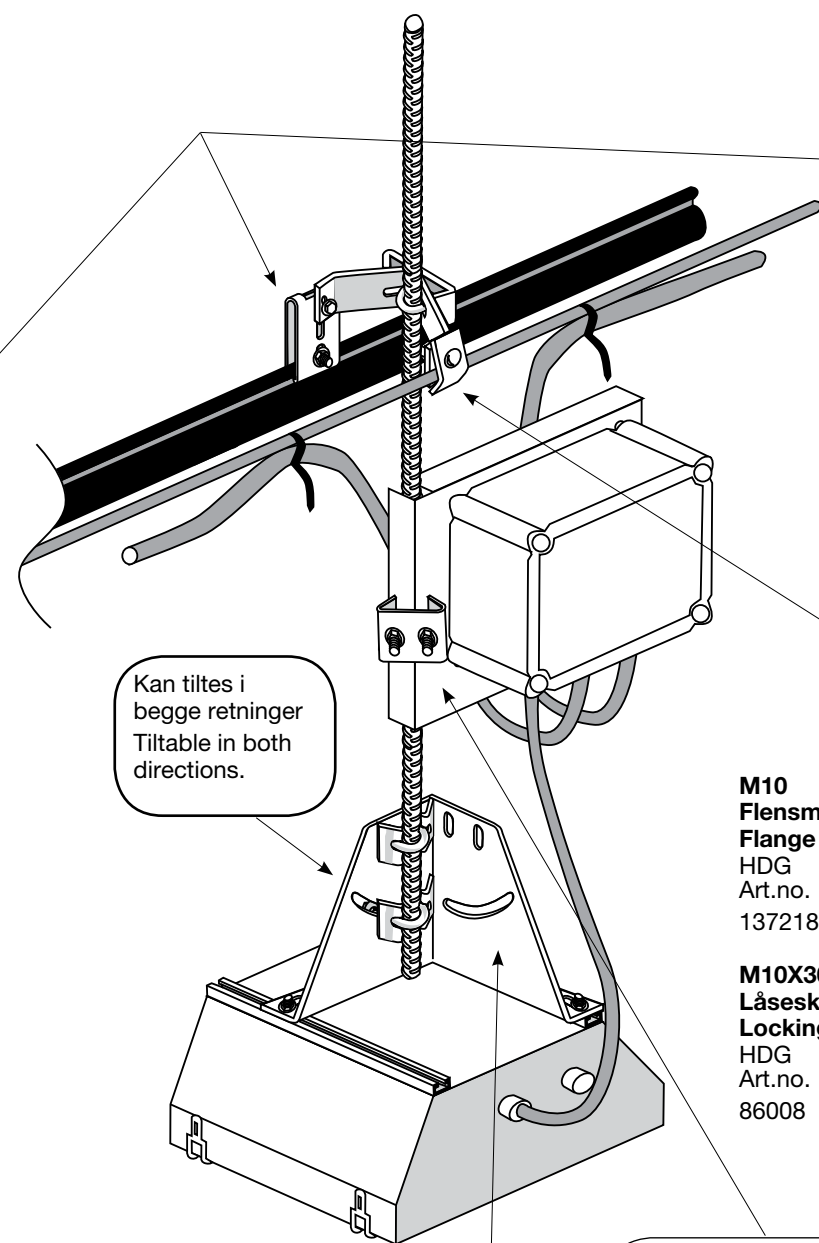
U-Bolt sett, se side 19
U-Bolt set, see page 19



Tunnel Equipment fixed to Rock Bolt

„Enkeltdeler“

„Single parts“



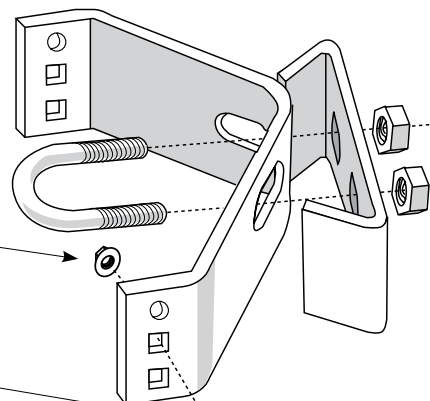
**Oppheng for signalkabel
Support for radiating cable**

Art. no. 85035 SS

**Festebraketter for wire
Support bracket for
rock bolt wire**

Kombibrakett / Combi Bracket

Type	Art. no.	HDG	SS
S-TOE SB-RO-WI-2	1372794		78777



**M10
Flensmutter
Flange Nut**

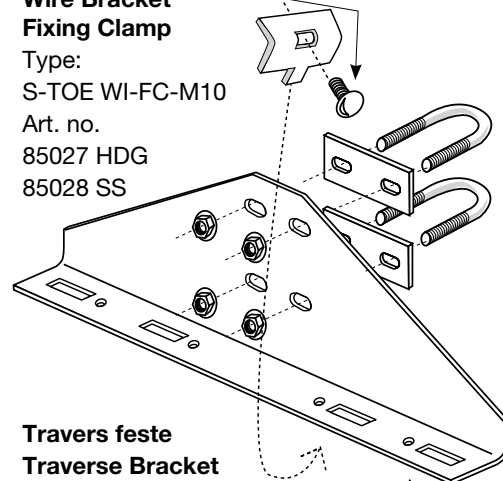
HDG	SS
Art.no. 1372180	Art.no. 1371973

**M10X30
Låseskrue
Locking Screw**

HDG	SS
Art.no. 86008	Art.no. 89821

**Wire Bracket
Fixing Clamp**

Type:
S-TOE WI-FC-M10
Art. no.
85027 HDG
85028 SS

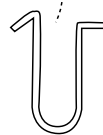


**Travers feste
Traverse Bracket**

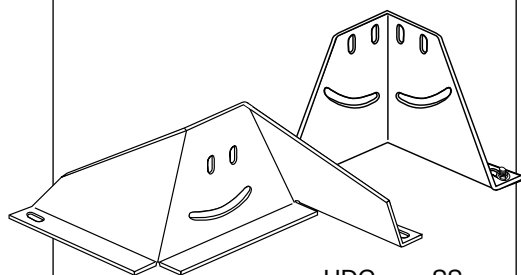
Type	Art. no.	HDG	SS
S-TOE SB-RO-WI-4		83340	83341

**Bøyle til kabelklammer
Hoop Bracket for Cable Clamp**

Type	Art. no.	SS
TOE-KKB	83536	

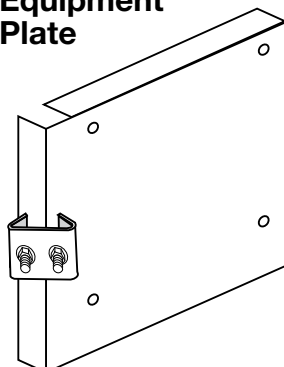


**Opphengsbraketter
Support Brackets**

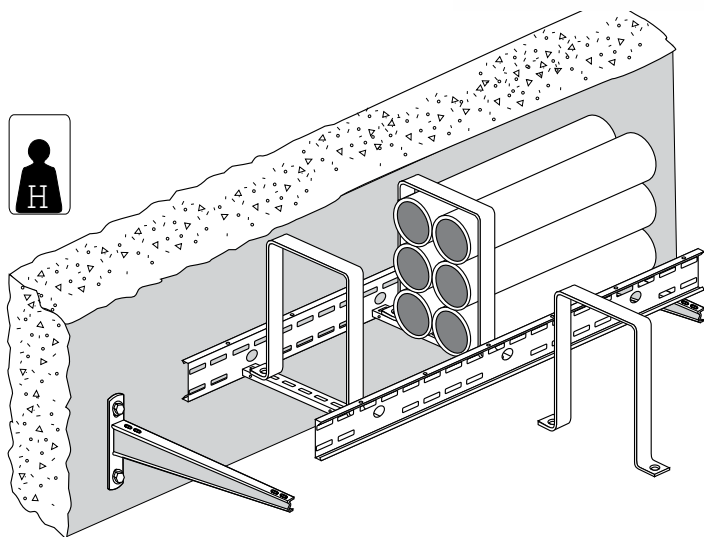
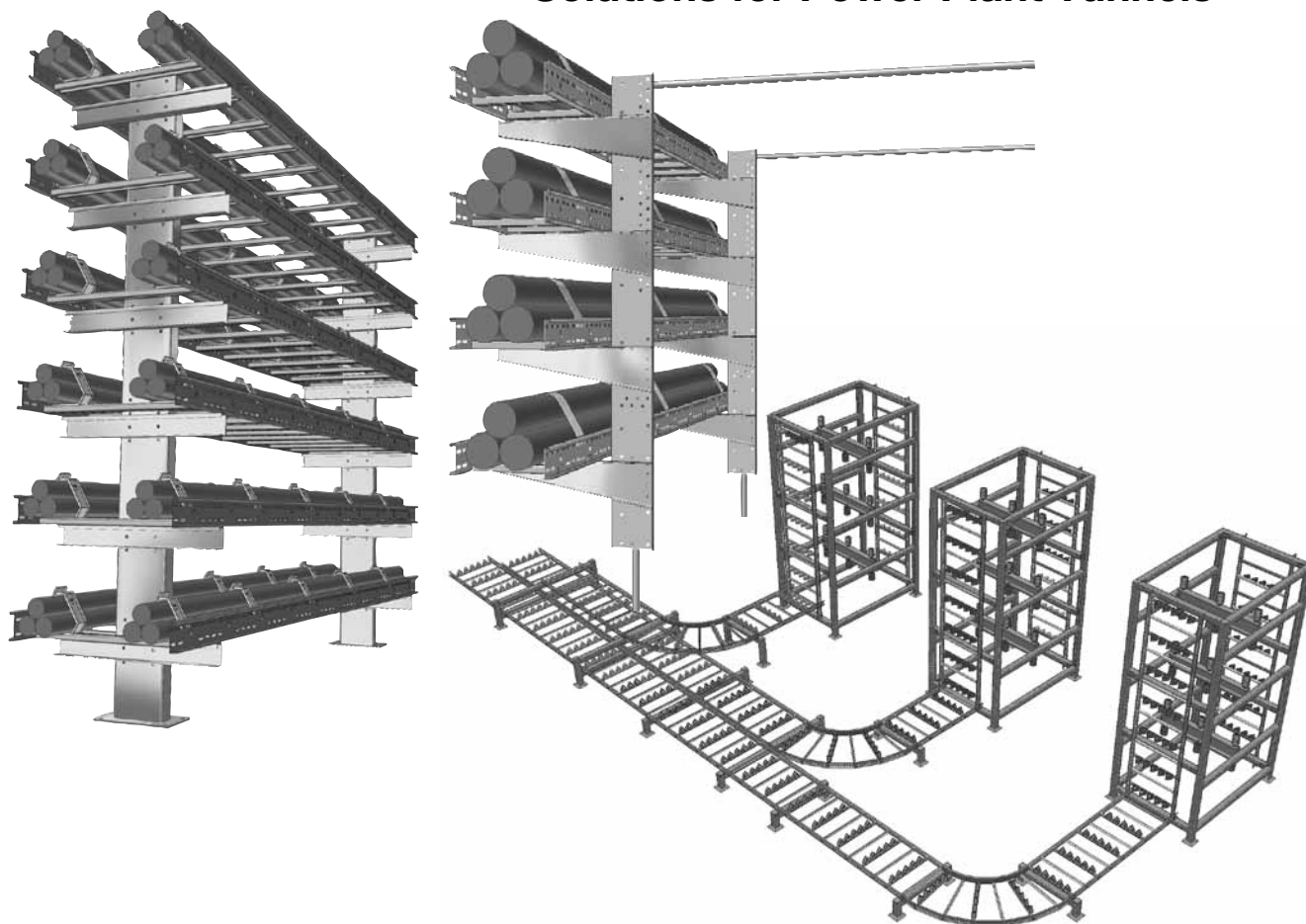


Type no.	HDG Art.no.	SS Art.
S-TOE LB-RO-Thorn	85135	85136
S-TOE LB-RO-Defa	86874	86873

**Montasjeplater
Equipment
Plate**



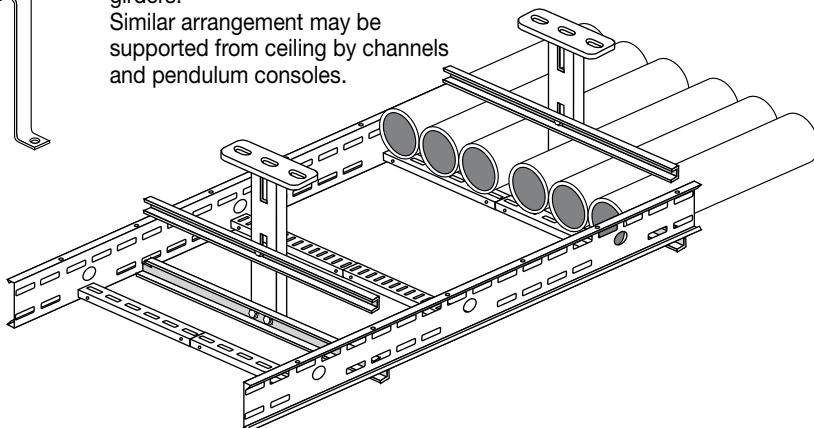
Tilpasses ditt behov.
Custom adapted design.



Trekkerør under vegbru Pipes for cable pulling installed under bridges

Trekkerør festes med tilpasset bøyte til trinn på OE-stige, opphengt på veggkonsoller festet til brubjelker eller dragere. Lignende arrangement kan henge fra tak med skinner og pendelkonsoller.

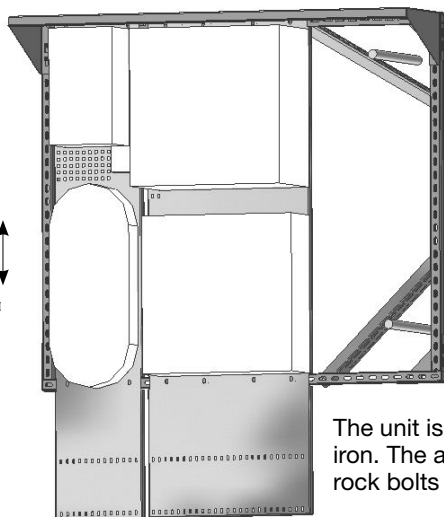
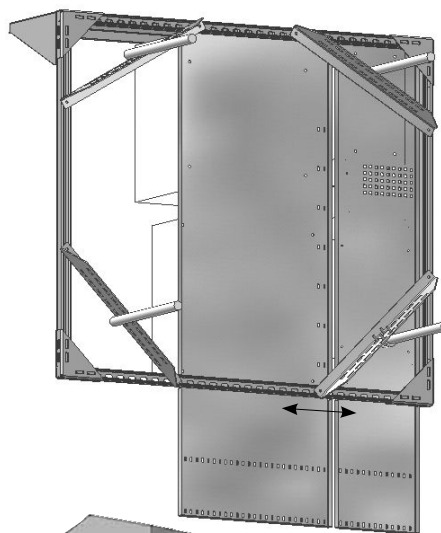
Pulling pipes are fixed with tailor made brackets to rungs of OE-ladder, supported by consoles fixed to e.g. bridge beams or girders. Similar arrangement may be supported from ceiling by channels and pendulum consoles.



Be om skreddersøm m. stdr. deler

Ask for tailor made solution based on existing parts.

Rack for Railway Tunnels



ENKEL LØSNING i varmgalv. utførelse.

Leveret Baneservice, Oslo. Til venstre er en ramme bygget av perforerte UNO skinner med hjørnebrakett D-119. Art. nr. 89719

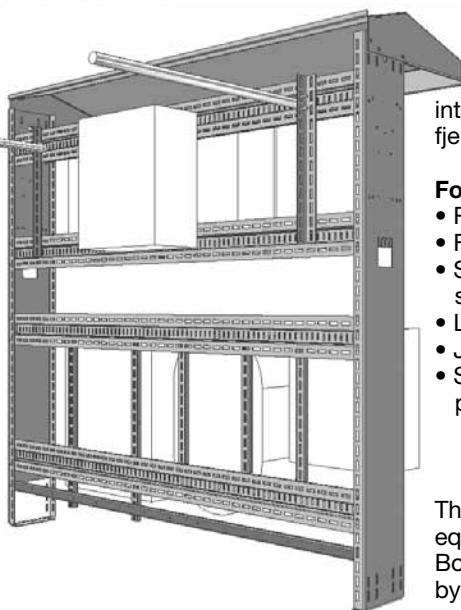
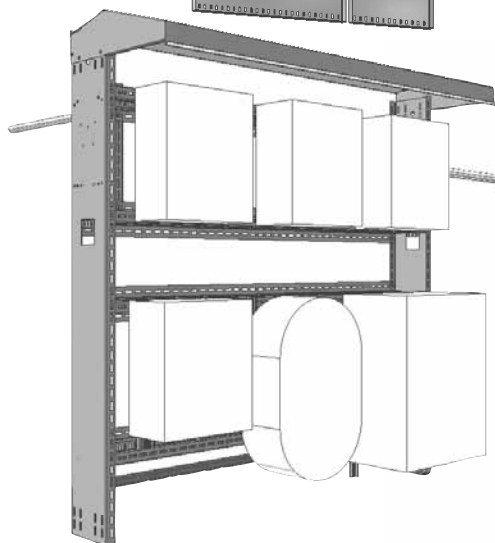
Enheten festes på fjellbolt med U-bolt på perforerte vinkeljern. Det fleksible skruefeste mellom vinkeljern og ramme tillater fjellbolter ut av linje.

SIMPLE SOLUTION in hot dip galv.

Supplied Baneservice, Oslo.

At left a frame of preslotted UNO channels with corner bracket D-119. Art. no. 89719

The unit is fixed to rock bolts with U-bolts to preslotted angle iron. The angle iron's flexible screwfunction to the frame, allow rock bolts out of line.



RACK LØSNING i rustfritt stål.

Leveret Jernbaneverket, Oslo.

Boksene og andre deler er festet til prestansede montasjeplater for enkel intallasjon. Skrufestes til en betongplate og med fjellbolter som støttestag.

Fordeler:

- Rask og sikker montering.
- Fanger opp fjellbolter som er ute av linje.
- SS utgave med skinner gir 100% tilpasning for skapfesting.
- Leveres med og uten tak.
- Jorskinne med M12 i bunn.
- SS utgave kan påmonteres skap på baksiden – plassbesparende.

RACK SOLUTION in stainless steel.

Supplied Jernbaneverket, Oslo, Norway.

The boxes and components are fixed to equipment plates preslotted for easy installation. Boltet to a concrete ground plate and supported by rock bolts.

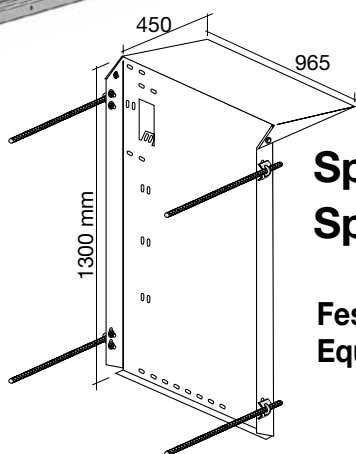
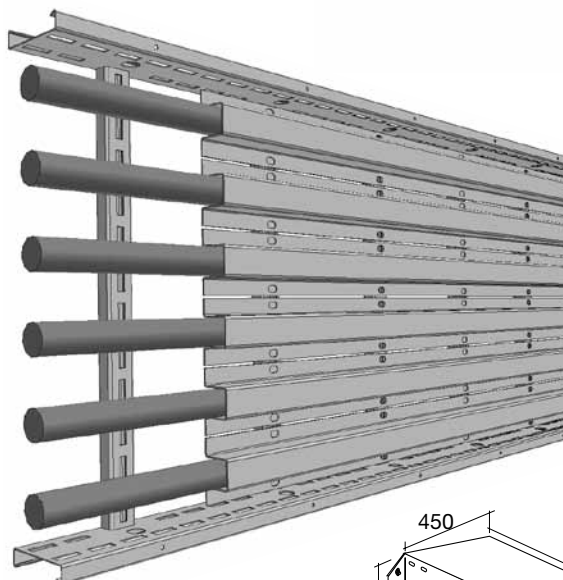
Benefits:

- Fast and safe installation.
- Adapts rock bolts out of line.
- SS version with preslotted rails for 100% adaption of box fixing.
- Supplied with or without roof.
- Earth rail with M12 at bottom.
- SS version allow boxes fixed at the back of the rack. Save space.

Tunnelutstyr for jernbane

Tunnel equipment for railways

Oppheng av likestrømkabel i tunnel for Oslo Sporveier.
Support of D.C. cables in a tunnel for Oslo Railway.



Spesiallaget tunnelutstyr

Special made tunnel equipment

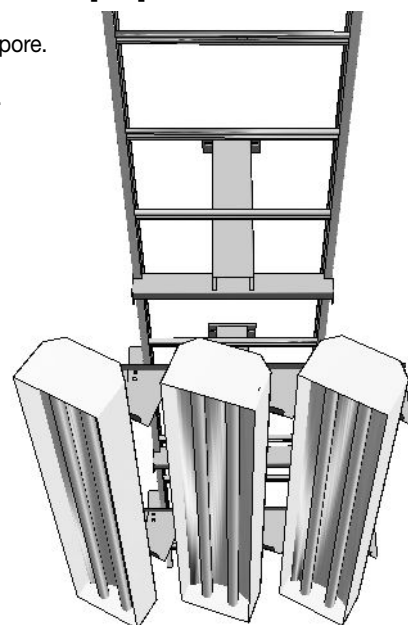
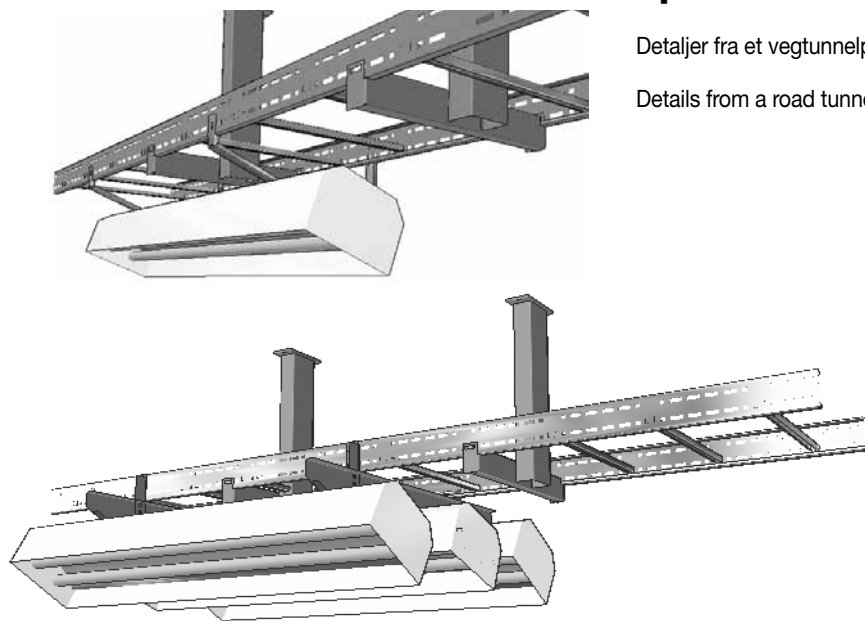
Festeplate for nødutstyr etc.

Equipmentplate e.g. emergency.

Special made tunnel equipment

Detaljer fra et vegtunnelprosjekt i Singapore.

Details from a road tunnel in Singapore.



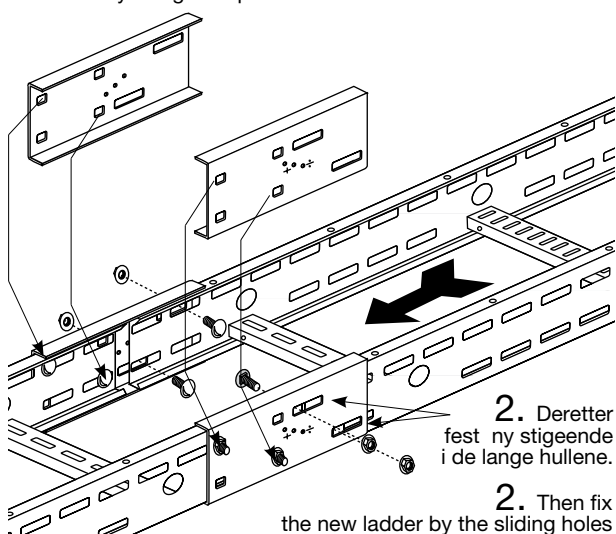
«Solslyng» Stålekspansjon ved lange kabelstigestrekk utsatt for temperatursvingninger.

Heat expansion. Steel expansion at continually cable ladder routes by variations of temperature.

Ekspansjonskjøtelask

Expansion Splice Connector

- Start ved å feste skjøtelasken til fri stigeende.
1. Start by fixing the splice connector to loose ladder end.



Ekspansjonsrisiko ved temperaturvariasjoner.

På grunn av lange sammenhengende kabelstigestrekk i tunneler, må vi ta spesielt hensyn til stålets utvidelseskoeffisient. Særlig ved bruk av syrefast stål som har vel 1,5 ganger større utvidelse enn galvanisert stål.

Det er flere måter å ta hensyn til ekspansjon av stiger og/eller kabel. Øglænd System har lang erfaring med ekspansjonsløsninger på skip, vegbruer, kraftverkkabel og tunneler.

Tunnelstiger kan forberedes for ekspansjon ved å bruke standard lasker på en spesiell måte, eller sette inn spesiallasker laget til formålet.

Husk jordingslasker over ekspansjonsskjøt. Art. nr. 85816.

Ta kontakt for å få tips før kabelføringen monteres.

Expansion risk at variations of temperature.

Because of long continually cable ladder connections in tunnels, we have to consider the expansion coefficient of the steel. Especially when stainless steel may expand approx 1,5 more than hot dip galvanized.

We have several methods to consider the expansion of cables/ladders. Øglænd System have long experience dealing with expansion solutions on ships, bridges, power plant cables and tunnels.

Cable ladders for tunnels are prepared for expansion by special use of standard splice connectors, or use of special designed splices for the purpose.

Remember earth link "jumpers" at expansion splices. Art. no. 85816.

Don't hesitate to contact us for tips before installation.

Be om monteringsbeskrivelse
med art.nr.

Ask for installation guide
with art.no.

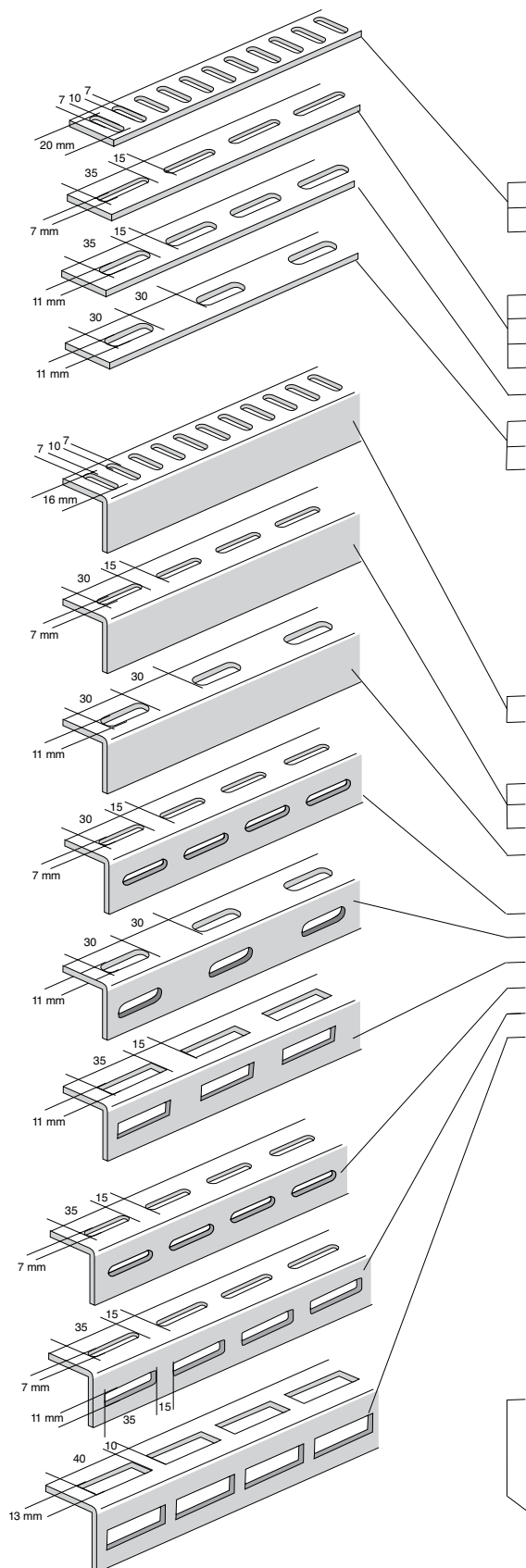
PR = Primet / Primed
 HDG = Varmgalv./ Hot Dip Galvanized
 SS = Rustfritt stål / Stainless Steel EN 1.4404
 ALU = Aluminium

Perforerte profiler

Benyttes til diverse oppheng og feste for baner, stiger og annen utrustning. Videre til skapskiner, tavlebygging ol.
 Leveres i 3m lengder.

Perforated Profiles

For various support of trays, ladders and electrical installations.
 Available in 3m lengths.



Flattstål / Flat Iron

Perforert på tvers / Crosswise perforated

Type	PR Art. no.	HDG Art. no.	SS Art. no.	ALU Art. no.	Weight HDG (kg)
FI-CW-7x20-30x5x3000	1372104	1372130			2,6
FI-CW-7x20-40x5x3000	1372105	1372131			3,8
FI-CW-7x20-50x4x3000	1372101	1372103			4,0

Perforert på langs / Lengthwise perforated

Type	PR Art. no.	HDG Art. no.	SS Art. no.	ALU Art. no.	Weight SS (kg)
FI-LW-7x35-25x5x3000	1372107	1372111	1371930		2,4
FI-LW-7x35-30x5x3000	1372108	1372112	1371931	78173	3,0
FI-LW-7x35-40x5x3000	1372109	1372113	1371932	78229	4,2
FI-LW-7x35-50x5x3000	1372110	1372114	1371933		5,5
FI-LW-11x35-40x5x3000	81477	81484	86858		3,9
FI-LW-11x30-50x5x3000		81485	1371935		5,4
FI-LW-11x30-40x6x3000			1371984		5,0
FI-LW-11x30-40x8x3000	1372100	1372102			6,6

Vinkelstål / Angle Iron

Perforert på tvers / Crosswise perforated

Type	PR Art. no.	HDG Art. no.	SS Art. no.	ALU Art. no.	Weight HDG (kg)
AI-CW-7x16-30x30x3x3000	1372132	1372134	1371942	78228	3,9
AI-CW-7x16-40x40x4x3000	1372133	1372140	1371943		6,9

Perforert på langs / Lengthwise perforated

AI-LW-7x30-30x30x3x3000	1372115	1372117	1371939		3,9
AI-LW-7x30-40x40x4x3000	1372116	1372118	1371940		6,9
AI-LW-7x30-50x50x3x2000				78045	1,5*
AI-LW-11x30-50x50x5x3000	1372119	1372120	1371941		10,7

Perforert dobbelt på langs / Double lengthwise perforated

AI-LW-7x30-40x40x4x3000			1371945		6,6
AI-LW-11x30-50x50x5x3000		78662	1371946		10,1
AI-LW-11x35-49x49x4x3000**		88349	88348		7,4
AI-LW-7x35-49x49x4x3000**		88347	88342		7,9
AI-LW-7x35/11x35-49x49x4x3000**		88346	88344		7,7
AI-LW-13x40-54x54x4x3000**			88351		7,8

*) Weight in ALU

**) Eksakte lengder opp til 3m (i 100mm steg) leveres på forespørsel.
 Predefined lengths up to 3m (in 100mm steps) are supplied on request.

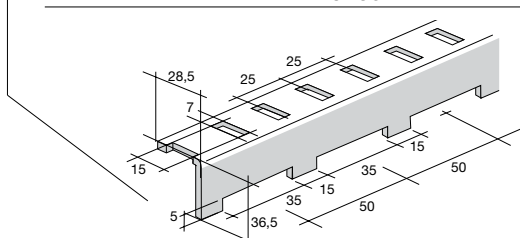
Sveiseprofil for tubingklammer

For rask og enkel tubing installasjon med ETIN tubingklammer.
 Leveres i lengder på 3m.

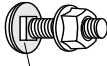
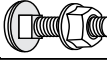
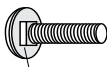
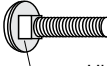
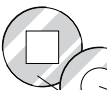
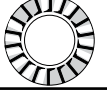
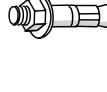
Welding Channel for tubing clamps

For quick and easy tubing installation with ETIN tubing clamp.
 Available in 3m lengths.

Type	PG Art. no.	HDG Art. no.	SS Art. no.	ALU Art. no.	Weight SS (kg/m)
RZ- WB	78463		78497		1



SKRUE / SCREWS TYPE

SKRUER / SCREWS				TYPE	STD. packs PG+HDG / SS	PG. Art. no.	HDG Art. no.	SS Art. no.
 *) Low 	LÅSESKRUER LOCKING BOLT SETS m/linsehode og flensmutter With pan head and flange nuts Self-Lock only in SS		M 6 x 12 *	S-M LS-NU-M6x12	200	1372750		1371981
			M 6 x 16 *	S-M LS-NU-M6x16	100			84487
			M 6 x 20 *	S-M LS-NU-M6x20	200			1371982
			M 6 x 30	S-M LS-NU-M6x30	200	1372749		1371361
			M10 x 20 *	S-M LS-NU-M10x20	100			1371983
			M10 x 25 *	S-M LS-NU-M10x25	100		1371980	1371437
		M10 x 50	S-M LS-NU-M10x50	50		1371589	1371362	
 *) Low  High	LÅSESKRUER LOCKING BOLTS		M 6 x 12 *	S-M LS-M6x12	per piece	1372167		1372161
			M 6 x 16 *	S-M LS-M6x16	per piece			84493
			M 6 x 25 DIN 603	S-M LS-M6x25	200 / 100	1372169		1372162
			M 6 x 50 DIN 603	S-M LS-M6x50	200 / 100	1371360		85520
			M10 x 20 *	S-M LS-M10x20	per piece			1372163
			M10 x 25 *	S-M LS-M10x25	per piece		1372765	
			M10 x 30 DIN 603	S-M LS-M10x30	100 / 100		86008	89821
			M10 x 35 DIN 603	S-M LS-M10x35	100			82709
			M10 x 50 DIN 603	S-M LS-M10x50	per piece			89822
			M10 x 70 DIN 603	S-M LS-M10x70	50			81396
 Lengre utgaver leveres i DIN 931 delgjennet. Longer lengths in DIN 931 partly threaded.	SEKSKANTSKRUER HEXAGONAL BOLTS		M 6 x 12 DIN 933	S-M HE-M6x12	100 / 200			1372780
			M 6 x 16 DIN 933	S-M HE-M6x16	100	1372171		1371318
			M 6 x 20 DIN 933	S-M HE-M6x20	200	1372172		1371319
			M 6 x 30 DIN 933	S-M HE-M6x30	200			1371320
			M 8 x 20 DIN 933	S-M HE-M8x20	200		1371301	1371321
			M 8 x 25 DIN 933	S-M HE-M8x25	200		1371302	1371322
			M 8 x 30 DIN 933	S-M HE-M8x30	200		1371303	1371323
			M10 x 16 DIN 933	S-M HE-M10x16	100	1372178		1371324
			M10 x 20 DIN 933	S-M HE-M10x20	200 / 100		1371304	1371325
			M10 x 25 DIN 933	S-M HE-M10x25	200 / 100		1371305	1371326
			M10 x 30 DIN 933	S-M HE-M10x30	200 / 100		1371306	1371327
			M10 x 35 DIN 933	S-M HE-M10x35	100		1371307	1371328
			M10 x 45 DIN 933	S-M HE-M10x45	100		1371308	1371329
			M10 x 50 DIN 933	S-M HE-M10x50	100		1371309	1371330
			M10 x 55 DIN 933	S-M HE-M10x55	100 / 50		1371310	1371331
			M12 x 25 DIN 933	S-M HE-M12x25	100		1371311	1371332
			M12 x 35 DIN 933	S-M HE-M12x35	100		1371312	1371333
			M12 x 45 DIN 933	S-M HE-M12x45	100 / 50		1371313	1371334
			M10 x 40 DIN 933	S-M HE-M10x40	per piece		1371314	1371335
	 With Torx T30 BITS for torx T30 conical Bits conical Torx T30	LINSESKRUER PAN HEAD SCREWS		M 6 x 16 DIN 7985	S-M PS-M6x16	200	1372164	
		M 6 x 20 DIN 7985	S-M PS-M6x20	200	1372842		1372157	
		M 6 x 25 DIN 7985	S-M PS-M6x25	200	84954		1372158	
		M 6 x 30 DIN 7985	S-M PS-M6x30	200	1372166		1372159	
		M 6 x 40 DIN 7985	S-M PS-M6x40	200 / 100	1372168		1372160	
 Self-Lock only in SS	FLENSMUTTERE FLANGE NUTS		6 mm DIN 6923	S-M NU-FL-M6	per piece	1372843		1371971
			8 mm DIN 6923	S-M NU-FL-M8	per piece	1372831		1371972
			10 mm DIN 6923	S-M NU-FL-M10	per piece	1372832	1372180	1371973
			12 mm DIN 6923	S-M NU-FL-M12	per piece			1371343
	SEKSKANTMUTTERE HEXAGONAL NUTS		M 6 x 10 DIN 934	S-M NU-M6	100	1372844		1372781
			M 8 x 13 DIN 934	S-M NU-M8	100		1372176	1371340
			M10 x 17 DIN 934	S-M NU-M10	100 / 50		1372845	1371341
			M12 x 19 DIN 934	S-M NU-M12	100 / 50		1372179	1371342
 Type codes: t= ◎ 10.5 x 20 x 2	SKIVER WASHERS		◎ 5x30.5x1.5	S-M WA-5x30.5x1.5	per piece			84394
			◎ 6x12x1.6 DIN 125	S-M WA-6.4x12x1.6	200			1372782
			◎ 6x18x1.6 DIN 125	S-M WA-6.4x18x1.6	200	1372175		1371349
			◎ 6x25x1.5	S-M WA-6x25x1.5	100 / 200	1372848		1371350
			◎ 8x16x1.6 DIN 125	S-M WA-8.4x16x1.6	100	1372849	1371345	1371351
			◎ 8x40.3x1.5	S-M WA-8x40.3x1.5	per piece			84345
			◎ 10.5x20x2 DIN 125	S-M WA-10.5x20x2	100		1372850	1371352
			◎ 12x24x2.5 DIN 125	S-M WA-13x24x2.5	100		1371346	1371353
			■ 7x30.4x1.5	S-M WA-7x30.4x1.5	per piece			84562
			■ 11x32x1	S-M WA-11x32x1	per piece			1371354
			■ 7x35x2	S-M WA-7x35x2	per piece	1371594		
			■ 10x(29x33)x3	S-M WA-10x(29x33)x3	per piece	84110		
	STJERNESKIVER STAR WASHERS		M 6 DIN 6798	S-M SW-M6	200	1372852		1371355
			M 8 DIN 6798	S-M SW-M8	100			1371356
			M10 DIN 6798	S-M SW-M10	100	1372854		1371357
			M12 DIN 6798	S-M SW-M12	100	1371359		1371358
 Kvaliteter: V.G. = 5.8 Qualities: S.S. = A4-70 P.G. = 5.8	EKSPANSJONSBOLTER CONCRETE ANCHOR BOLTS		M 6 x 40	S-M AC-6x40	150	1372767		
			M 6 x 52	S-M AC-6x52	100			1371368
			M 8 x 50	S-M AC-8x50	100	1372768		1371369
			M 8 x 72	S-M AC-8x72	50		1371364	
			M10 x 60	S-M AC-10x60	50	1372769	1371365	1371370
			M10 x 92	S-M AC-10x85	40		1371366	1371371
			M12 x 110	S-M AC-12x110	25			89823
 Inntil/Up to 1 mm stålplate/steelplate Inntil/Up to 3 mm stålplate/steelplate Inntil/Up to 3 mm stålplate/steelplate	SELVBORENDE SKRUER i 100-pakn. / SELF-TAPPING SCREWS in packs of 100		4.2 x 14mm	32-PH	100	1349417		
			4.2 x 13mm	34-PH	100	1372820		
			4.2 x 25mm	36-PH	100	1372821		
 For opptil 2.5mm tykkelse For up to 2.5mm thickness Bits for Marutex	SELVBORENDE RUSTFRIE SKRUER / SELF-TAPPING STAINLESS STEEL SCREWS		4.8 x 13 mm MARUTEX M4.8x13 SS in A2 quality		100			1371373
			4.8 x 25 mm Marutex M4.8x25 SS in A2 quality		100			1371374
			Bits			1371375		

Maks tiltrekningsmoment / Max tightening torque for Self-Lock Flange Nuts: M6 = 8-10Nm, M8 = 20-23Nm, M10 = 40-45Nm, M12 = 80-85Nm

PG = 4-7 my zink. HDG = 40-70 my zink. ww = A4-70 (Hex = A4-80)

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SIMPLY THE BEST!

Dette har vært vårt motto helt siden firmaet ble grunnlagt i 1977.

Ved å følge dette mottoet har vi blitt markedslederen innen våre felt – globalt.

Øglænd Systems mål er å utvikle systemer som er de beste, enkleste og mest økonomiske på markedet.

This has been our motto since the company was founded in 1977. By living up to the motto we have become the market leader in our field – worldwide.

Oglaend System's goal is to develop systems that are better, simpler and more economic overall.



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