

Armeringskoblinger

Armeringskobling for mekanisk skjøting av armering. Armeringskoblingene oppfyller kravet i Statens Vegvesens håndbok R762 om minimum 30% høyere bruddkapasitet i hylsen, enn kamstålets nominelle flytkapasitet (1,3 x ReH). På hankobling «TSE» er ende med gjenger stuket og rullgjenget. For disse vil kamstålet være dimensjonerende.

Forklaring på betegnelser i artikkeltekst:

PSA=Hankoblinger med gjengehylse påklemt

TSE=Hankoblinger med stuket og rullgjenget ende

PSE=Hankoblinger med gjengehylse påklemt

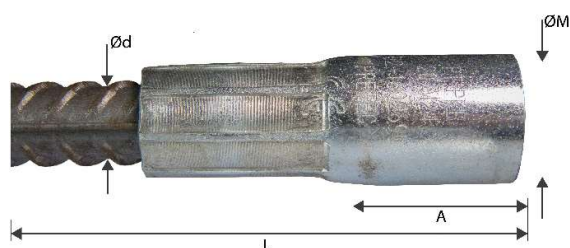
D=dobbel (hylse/gjenge i begge ender, f.eks PSAD)

G=1x bøy (gjentas flere ganger dersom koblingen er bøyd flere ganger, f.eks PSAGG)

Overflate

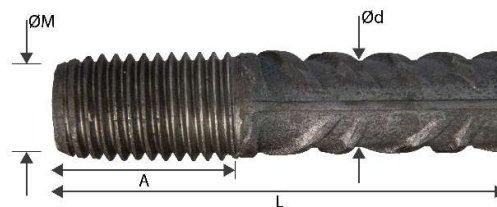
PSA hankoblinger finnes i syrefast materiale (A4), eller karbonstål med varmgalvanisert eller elektrolytisk forsinket overflate. PSE hankoblinger leveres med elektrolytisk forsinket overflate.

Teknisk informasjon:



PSA		
Ød	M	A
12	16	27
16	20	35
20	24	40
25	30	52
32	42	72

TSE/PSE			
Ød	M	A _{TSE}	A _{PSE}
12	16	22	19
16	20	28	22,5
20	24	35	27
25	30	43	33
32	42	45	46



Kapasitetsberegning:

Kamstål B500NC, dimensjon	Nominelt spenningsareal A _S	Flyt ReH N/mm ² Min:	Kapasitet, kN (A _S x ReH)/1000
Ø12	113	500	56,5
Ø16	201	500	100,5
Ø20	314	500	157
Ø25	491	500	245,5
Ø32	804	500	402

Hylse/gjengeparti, dimensjon	Nominelt spenningsareal A _{S, hylse}	Brudd R _m N/mm ² Min:	Kapasitet, kN (A _{S, hylse} x R _m)/1000
Ø12/M16	157	835	131
Ø16/M20	245	835	204
Ø20/M24	353	835	294
Ø25/M30	561	835	468
Ø32/M42	1121	835	936

Reinforcement couplers

Reinforcement coupler for mechanical splicing of rebar. Coupler sleeve has minimum 30% higher breaking load than the nominal yield strength of the rebar ($1.3 \times ReH$). This is a requirement in handbook R762 from The Norwegian Road Authorities. "TSE" male couplers have threaded ends that are buckled and roll threaded. The capacity for these are the same as the rebar.

Explanation of designations in article text:

PSA = Female couplers with threaded sleeve clamped

TSE = Male couplers with buckled and rolled end

PSE = Male couplers with threaded sleeve clamped

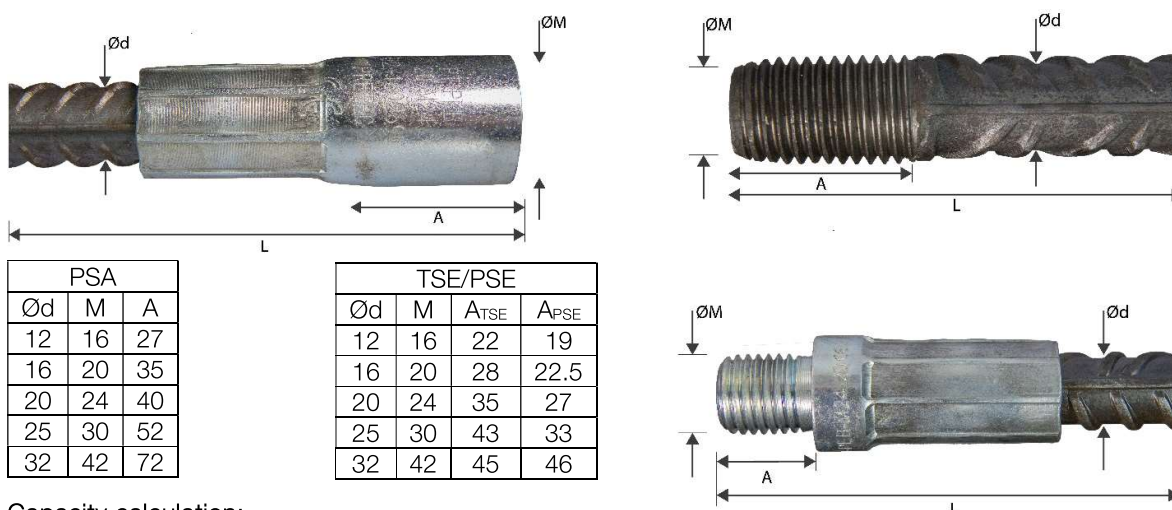
D = Double (sleeve/thread at both ends, e.g. PSAD)

G = 1x bend (repeated several times if the coupler is bent several times, e.g. PSAGG)

Surface treatment

PSA female couplers are available in stainless steel (A4), or carbon steel with hot dip galvanized or electrolytically galvanized surface. PSE couplers are delivered with electrolytically galvanized surface.

Technical information:



Capacity calculation:

Rebar B500NC, dimension	Nominal stress area A_s	Yield strength ReH N/mm ² Min.:	Capacity, kN ($A_s \times ReH$)/1000
$\varnothing 12$	113	500	56.5
$\varnothing 16$	201	500	100.5
$\varnothing 20$	314	500	157
$\varnothing 25$	491	500	245.5
$\varnothing 32$	804	500	402

Sleeve/thread section, dim.	Nominal stress area $A_{s, \text{sleeve}}$	Tensile strength R_m N/mm ² Min.:	Capacity, kN ($A_{s, \text{sleeve}} \times R_m$)/1000
$\varnothing 12/M16$	157	835	131
$\varnothing 16/M20$	245	835	204
$\varnothing 20/M24$	353	835	294
$\varnothing 25/M30$	561	835	468
$\varnothing 32/M42$	1121	835	936