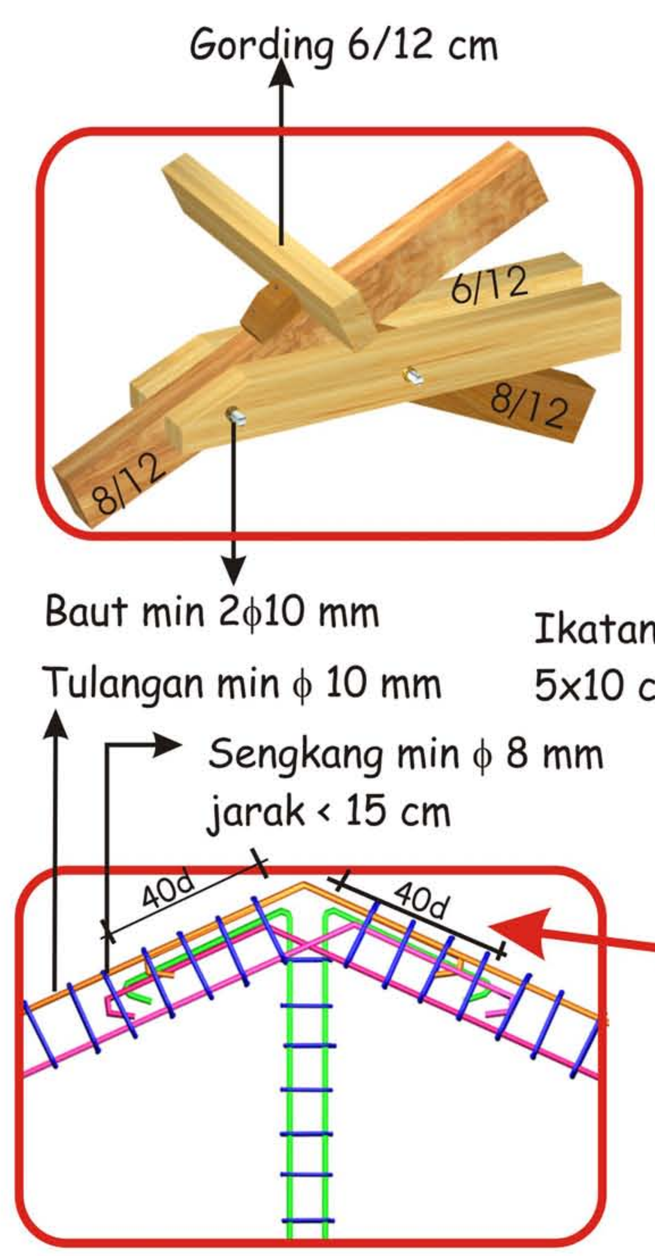
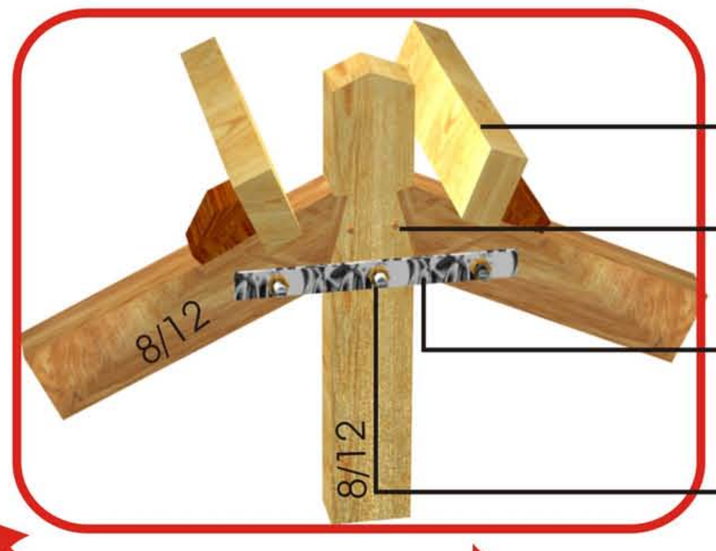
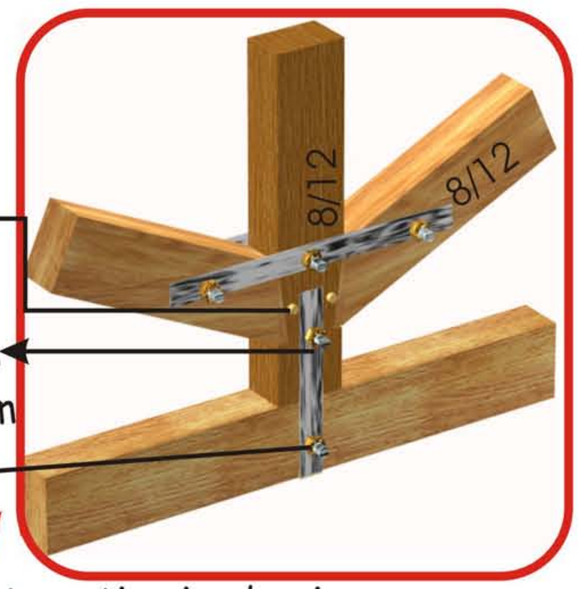
SYARAT - SYARAT MINIMUM

BANGUNAN TEMBOKAN BATA/BATAKO AMAN GEMPA

DENGAN PERKUATAN BETON BERTULANG DINDING AMPIG BATU BATA





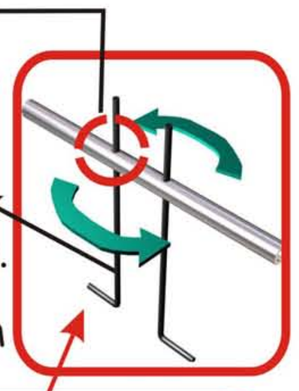


Ikatan angin
5x10 cm

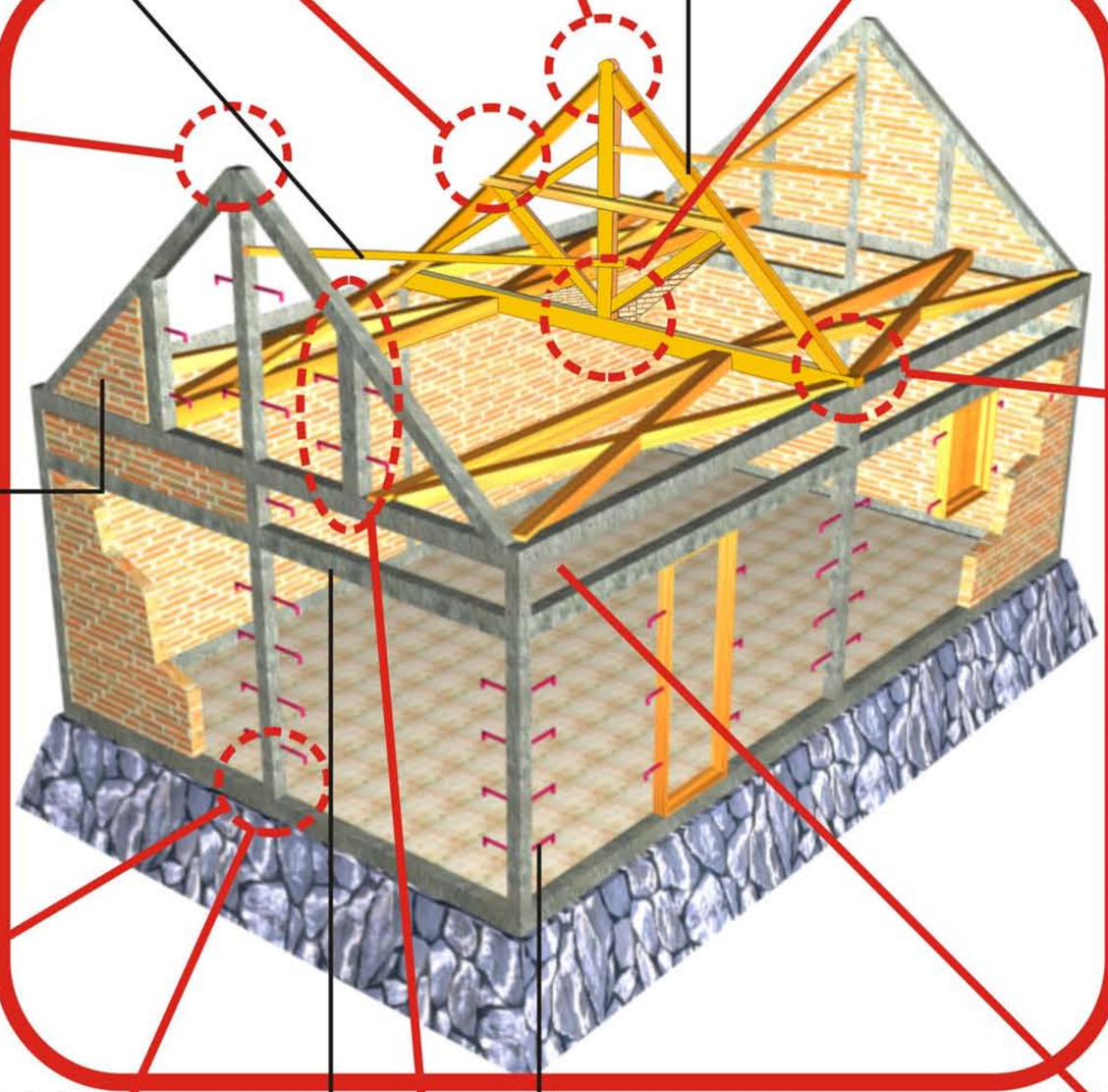
Kuda-kuda kayu

Alat puntir pipa besi
>ϕ 3" dilubangi 2 buah.

Jangkar ϕ 10 mm
panjang >40 cm
agar dpt dipuntir.

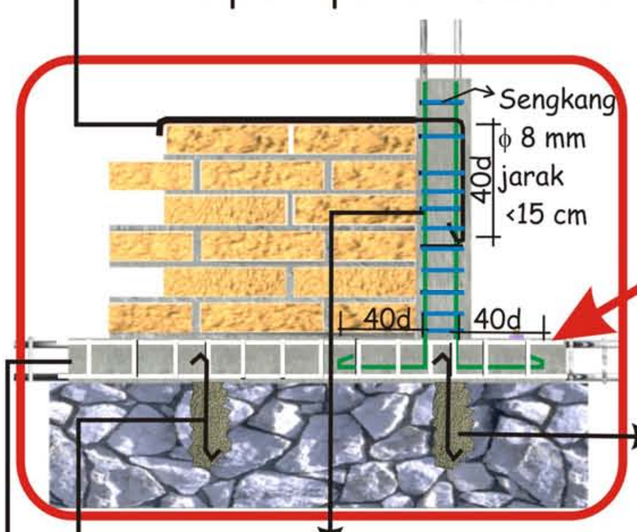


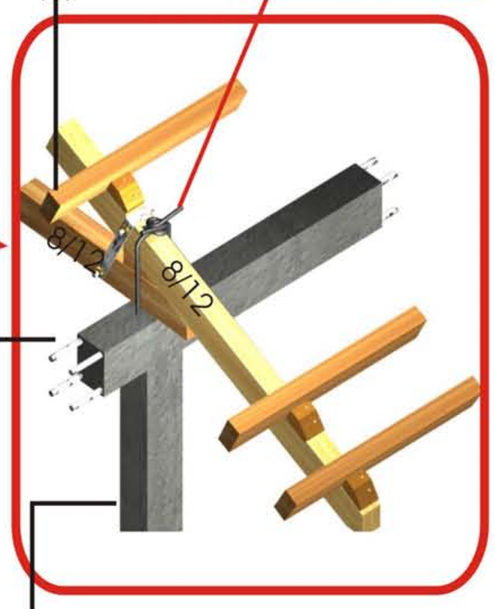
Gording 6/12 cm



Dinding Ampig

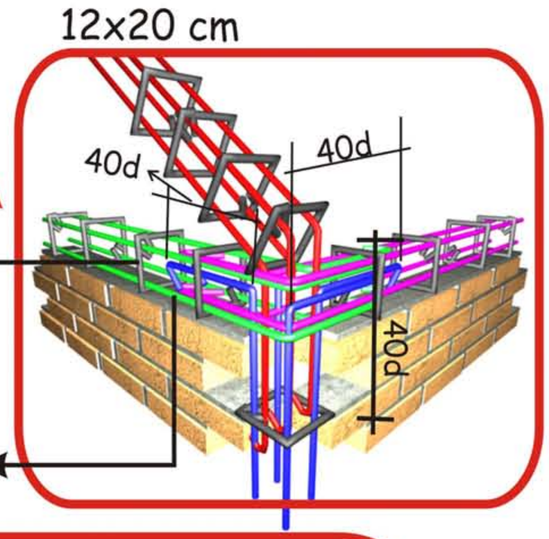
Jangkar min ϕ 10 mm
panjang >40 cm
tiap 6 lapis bata/batako





Kolom beton bertulang
12x12 cm

Balok beton bertulang
12x20 cm



Adukan
beton

Kolom beton bertulang 12x12 cm

Jangkar ϕ 10 mm tiap 1 m

Balok pondasi 15x20 cm

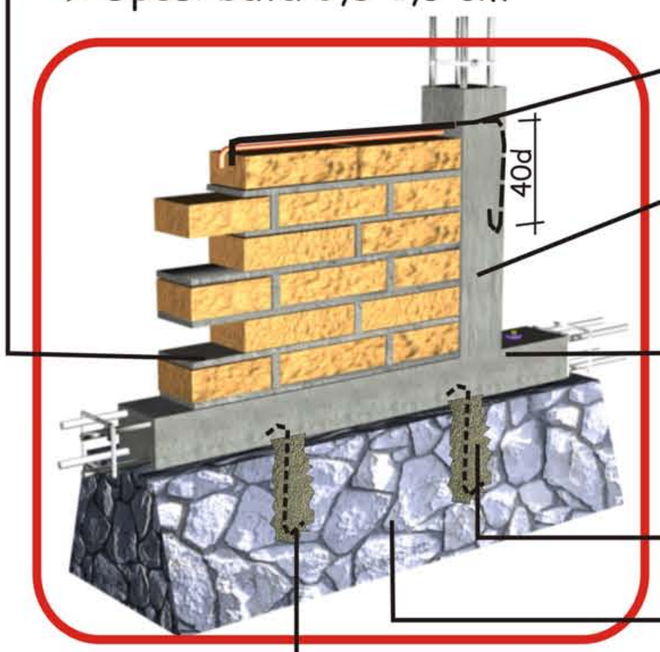
Spesi bata 0,8-1,5 cm

Balok lintel
diatas kusen
12x20 cm

Jangkar ϕ 10 mm
pjg > 40 cm
tiap 6 lapis
bata/batako

Jangkar min ϕ 10 mm
panjang >40 cm
tiap 6 lapis bata

Sengkang min ϕ 8 mm
jarak < 15 cm
Tulangan min ϕ 10 mm



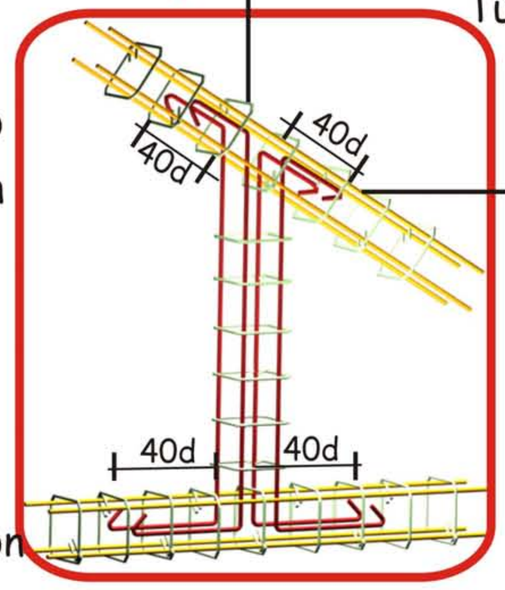
Kolom beton
bertulang
12x12 cm

Balok
pondasi
15x20 cm

Adukan beton

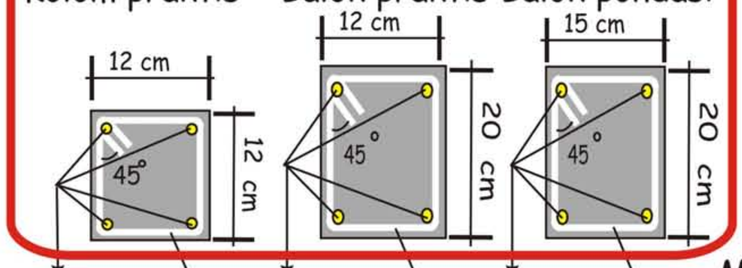
Pondasi batu kali belah

Jangkar ϕ 10mm tiap 1 m



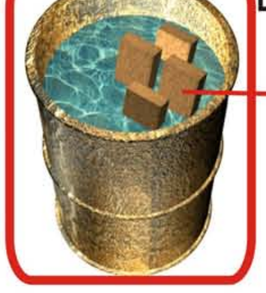
Tebal selimut beton 2,5 cm dr as tulangan utama

Kolom praktis | Balok praktis | Balok pondasi



4 ϕ 10 mm | 4 ϕ 10 mm | 4 ϕ 10 mm

Min ϕ 8 mm
jarak
< 15 cm



Bata/batako direndam
sampai jenuh
sebelum dipasang

Perhatikan: 1. Mutu bahan bangunan
2. Detail sambungan
3. Mutu pengerjaan
4. Kayu harus di anti rayap

Campuran Adukan Spesi:

1 PC(semen) : 4 Pasir

Diaduk hingga rata, tambah air secukupnya

Campuran Adukan Beton :

1 PC(semen) : 2 Pasir : 3 kerikil

Kekuatan minimum 150 kg/cm²

Gradasi kerikil harus sesuai untuk beton bermutu.

Jumlah air tidak boleh berlebihan.

Grafics by Agung/POSTER 2 Mei 06

DIBUAT OLEH: Teddy Boen & Rekan

WSSI World Seismic Safety Initiative

DIPRODUKSI DENGAN DUKUNGAN DARI: AUSTRALIA-INDONESIA FACILITY FOR DISASTER REDUCTION; BNPB Badan Nasional Penanggulangan Bencana

BEKERJASAMA DENGAN: Sumatera Barat; IDEP