Tender Texts

Notes: This tender has been created under ATV DIN 18 330 version 10/2006. Thus the dimensions for 24 cm thick and thicker walls are also specified in square metres [m²].

The tender text makes no claim to completeness and correctness. It is imperative that a specialist planner review and possibly adapt the structure and desired execution. Observe the manufacturer's product information and brick-laying guidelines.

Please observe the **'Plaster on brick masonry'** information sheet for proper planning and execution of plastering tasks.

External walls

Exterior walls made of ThermoPlan brick from JUWÖ

Brick-laying techniques for flat brick
VD[1] system
Apply mortar with VD roller entire surface capping bed joint.
The **VD system is strictly specified** for all exterior-wall bricks; dipping process is not permitted (except T 11, 19, and 24 cm and T 14).

Pos. **Brick-exterior brickwork** made of **ThermoPlan® MZ 60 from JUWÖ**
under permit Z-17.1-1025
Thermal conductibility λ_R = **0.06** W/(m*K) Bulk density class **0.50** kg/dm³
Stone strength class **6** Perm. pressure sp. $\sigma_{0=}$ **0.60** MN/m²
Fire resistance class –
Deliver and manufacture according to plan documents and information from site management under DIN 1053 flush and plumb using start and quoin bricks.
Brick laying: **VD system**

a) Wall thickness 42.5 cm: ..... m² at .....€/m² .....€

Pos. **Exterior brickwork** made of **ThermoPlan® MZ 70 from JUWÖ**
under permit Z-17.1-1084
Thermal conductibility λ_R = **0.07** W/(m*K) Bulk density class **0.55** kg/dm³
Stone strength class **8** Perm. pressure sp. $\sigma_{0=}$ **0.55** MN/m²
Fire resistance class **F 30 A** (≥30 cm)
Deliver and manufacture according to plan documents and information from site management under DIN 1053 flush and plumb using start and quoin bricks.
Brick laying: **VD system**

a) Wall thickness 24 cm: ..... m² at .....€/m² .....€
b) Wall thickness 30 cm: ..... m² at .....€/m² .....€
c) Wall thickness 36.5 cm: ..... m² at .....€/m² .....€
d) Wall thickness 42.5 cm: ..... m² at .....€/m² .....€
e) Wall thickness 49 cm: ..... m² at .....€/m² .....€

Pos. **Exterior brickwork** made of **ThermoPlan® MZ 8 from JUWÖ**
under permit Z-17.1-906
Thermal conductibility λ_R = **0.08** W/(m*K) Bulk density class **0.65** kg/dm³
Stone strength class **8** Perm. pressure sp. $\sigma_{0=}$ **0.65** MN/m²
Fire resistance class **F 90 A**
Deliver and manufacture according to plan documents and information from site management under DIN 1053 flush and plumb using start and quoin bricks.
Brick laying: **VD system**

a) Wall thickness 30 cm: ..... m² at .....€/m² .....€
b) Wall thickness 36.5 cm: ..... m² at .....€/m² .....€

[1] Full-coverage thin-bed mortar [trans.]

c) Wall thickness 42.5 cm: ..... m² at .....€/m² .....€

Pos. **Exterior brickwork** made of **ThermoPlan® S 7[5] from JUWÖ**
under permit Z-17.1-1077
Thermal conductibility λ_R = **0.075** W/(m*K) Bulk density class **0.55** kg/dm³
Stone strength class **4 (6 on request)** Perm. pressure sp. σ_0 = **0.45 (0.65)** MN/m²
Deliver and manufacture according to plan documents and site management specification under DIN 1053 flush and plumb using start and quoin bricks.
Brick laying: **VD system**

a) Wall thickness 42.5 cm: ..... m² at .....€/m² .....€
b) Wall thickness 49 cm: ..... m² at .....€/m² .....€

Pos. **Exterior brickwork** made of **ThermoPlan® S 8 from JUWÖ**
under permit Z-17.1-1013
Thermal conductibility λ_R = **0.08** W/(m*K) Bulk density class **0.60** kg/dm³
Stone strength class **8** Perm. pressure sp. σ_0 = **0.9** MN/m²
Fire resistance class **firewall F 90 A + M**
Deliver and manufacture according to plan documents and information from site management under DIN 1053 flush and plumb using start and quoin bricks.
Brick laying: **VD system**

a) Wall thickness 36.5 cm: ..... m² at .....€/m² .....€
b) Wall thickness 42.5 cm: ..... m² at .....€/m² .....€
c) Wall thickness 49 cm: ..... m² at .....€/m² .....€

Pos. **Exterior brickwork** made of **ThermoPlan® S 9 from JUWÖ**
under permit Z-17.1-1013
Thermal conductibility λ_R = **0.09** W/(m*K) Bulk density class **0.60/0.65** kg/dm³
Stone strength class **8** Perm. pressure sp. σ_0 = **0.9** MN/m²
Fire resistance class **F 90 A** ($\geq$36.5 cm)
Deliver and manufacture according to plan documents and information from site management under DIN 1053 flush and plumb using start and quoin bricks.
Brick laying: **VD system**

a) Wall thickness 30 cm: ..... m² at .....€/m² .....€
b) Wall thickness 36.5 cm: ..... m² at .....€/m² .....€
c) Wall thickness 42.5 cm: ..... m² at .....€/m² .....€

Pos. **Exterior brickwork** made of **ThermoPlan® T 10 from JUWÖ**
under permit Z-17.1-1047
Thermal conductibility λ_R = **0.10** W/(m*K) Bulk density class **0.65/0.70** kg/dm³
Stone strength class **8** Perm. pressure sp. σ_0 = **0.9** MN/m²
Deliver and manufacture according to plan documents and information from site management under DIN 1053 flush and plumb using start and quoin bricks.
Brick laying: **VD system**

a) Wall thickness 30 cm: ..... m² at .....€/m² .....€
b) Wall thickness 36.5 cm: ..... m² at .....€/m² .....€

Pos. **Exterior brickwork** made of **ThermoPlan® MZ90-G from JUWÖ**
under permit Z-17.1-1087
Thermal conductibility λ_R = **0.09** W/(m*K) Bulk density class **0.70** kg/dm³
Stone strength class **12** Perm. pressure sp. $\sigma_{0=}$ **1.15** MN/m²
Fire resistance class **firewall REI-M 90**
Brick optimized for the noise-protection requirements in multi-family home construction with a noise protection of R_w = 48.3 dB (30 wall) and R_w = 50 dB (36.5 wall) proven via test certificate
Deliver and manufacture according to plan documents and information from site management under DIN 1053 flush and plumb using start and quoin bricks.
Brick laying: **VD system**

a) Wall thickness 30 cm: ..... m² at .....€/m² .....€
b) Wall thickness 36.5 cm: ..... m² at .....€/m² .....€
c) Wall thickness 42.5 cm: ..... m² at .....€/m² .....€

Pos. **Exterior brickwork** made of **ThermoPlan® MZ 10 from JUWÖ**
under permit Z-17.1-1015
Thermal conductibility λ_R = **0.10** W/(m*K) Bulk density class **0.75** kg/dm³
Stone strength class **12** Perm. pressure sp. $\sigma_{0=}$ **1.15** MN/m²
Fire resistance class **firewall REI-M 120**
Brick optimized for the noise-protection requirements in multi-family home construction with a noise protection of R_w = 51.3 dB proven via test certificate (36.5 wall)
Deliver and manufacture according to plan documents and information from site management under DIN 1053 flush and plumb using start and quoin bricks.
Brick laying: **VD system**

a) Wall thickness 30 cm: ..... m² at .....€/m² .....€
b) Wall thickness 36.5 cm: ..... m² at .....€/m² .....€
c) Wall thickness 42.5 cm: ..... m² at .....€/m² .....€

Pos. **Brick-exterior brickwork** made of **ThermoPlan® T 11 from JUWÖ**
under permit Z-17.1-769 (19 cm and 24 cm)/Z.17.1-1047 (30 cm and 36.5 cm)
Thermal conductibility λ_R = **0.11** W/(m*K) Bulk density class **0.60/0.70** kg/dm³
Stone strength class **8** Perm. pressure sp. $\sigma_{0=}$ **0.9** MN/m²
Fire resistance class **F 30 A, 36.5 = F 90 A**
Deliver and manufacture according to plan documents and information from site management under DIN 1053 flush and plumb using start and quoin bricks.
Brick laying: **VD system**

a) Wall thickness 19 cm: …….. m² at ……€/m² ……€
b) Wall thickness 24 cm: …….. m² at ……€/m² ……€
c) Wall thickness 30 cm: ..... m² at .....€/m² .....€
d) Wall thickness 36.5 cm: ..... m² at .....€/m² .....€

Pos. **Exterior brickwork** made of **ThermoPlan® TS 12 from JUWÖ**
under permit Z-17.1-1107

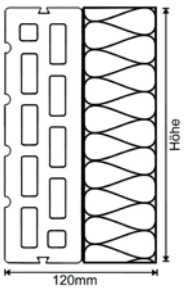
Thermal conductibility λ_R = **0.12** W/(m*K) Bulk density class **0.75** kg/dm³
Stone strength class **10** Perm. pressure sp. σ_0 = **1.4** MN/m²
Fire resistance class at wall thickness ≥36.5 cm **F 90 A firewall, REI-M 90**
Brick optimized for the noise-protection requirements in multi-family home construction with a noise protection of R_w = 50 dB proven via test certificate (36.5 wall)
Deliver and manufacture according to plan documents and information from site management under DIN 1053 flush and plumb using start and quoin bricks.
Brick laying: **VD system**

a) Wall thickness 30 cm: ..... m² at .....€/m² .....€
b) Wall thickness 36.5 cm: ..... m² at .....€/m² .....€
c) Wall thickness 42.5 cm: ..... m² at .....€/m² .....€

Pos. **Exterior brickwork** made of **ThermoPlan® T 14 from JUWÖ**
under permit Z-17.1-908
Thermal conductibility λ_R = **0.14** W/(m*K) Bulk density class **0.70** kg/dm³
Stone strength class **10** Perm. pressure sp. σ_0 = **1.3** MN/m²
Fire resistance class **F 30 A, ≥30 cm F 90 A**
Deliver and manufacture according to plan documents and information from site management under DIN 1053 flush and plumb using start and quoin bricks.
Brick laying: **VD system**

a) Wall thickness 24 cm: ..... m² at .....€/m² .....€
b) Wall thickness 30 cm: ..... m² at .....€/m² .....€
c) Wall thickness 36.5 cm: ..... m² at .....€/m² .....€

Pos.



Deliver **slab-edge formwork bricks (DeRa formwork)** with factory-glued insulation **(60 mm)** made of pliable insulation material (application type T, WLG ≤ 035) and brick up to ceiling height in the external wall system.
Brick laying: usable with normal and thin-bed mortar

a) Brick height 17.8 cm: ..... RM at .....€/RM .....€
b) Brick height 19.8 cm: ..... RM at .....€/RM .....€
c) Brick height 21.8 cm: ..... RM at .....€/RM .....€

Pos. Deliver **slab-edge formwork bricks (DeRa formwork)** with factory-glued insulation **(80 mm)** made of pliable insulation material (application type T, WLG ≤ 035) and wall up to ceiling height in the external wall system. Conforms to DIN 4108 supplement 2 with 36.5 wall up to lambda brickwork 0.11 W/mK. Use additional insulation as required with larger wall thicknesses or lower thermal conductibility.
Brick laying: usable with normal and thin-bed mortar.

a) Brick height 17.8 cm: ..... RM at .....€/RM .....€
b) Brick height 19.8 cm: ..... RM at .....€/RM .....€
c) Brick height 21.8 cm: ..... RM at .....€/RM .....€
d) Brick height 24.8 cm: ..... RM at .....€/RM .....€

Thermally insulated tie beams, ring beams made of U forms and WU forms

Pos. Deliver and manufacture **tie beam, ring beam** made of **U-forms**, height 24 cm, length 24 cm, wall up force fit with insulating or thin-bed mortar. Inserting a thermal insulation layer (WLG 035) d $\geq$ 6 cm. Cover over with concrete acc. static requirements. Reinforcement in separate position.

a) Wall thickness 24 cm:	..... RM	at .....€/RM	.....€
b) Wall thickness 30 cm:	..... RM	at .....€/RM	.....€
c) Wall thickness 36.5 cm:	..... RM	at .....€/RM	.....€
d) Wall thickness 42.5 cm:	..... RM	at .....€/RM	.....€
e) Wall thickness 49 cm:	..... RM	at .....€/RM	.....€

Pos. Deliver and manufacture **tie beam, ring beam** made of already thermally insulated **WU-forms**, height 24 cm, length 24 cm, wall up force fit with insulating or thin-bed mortar. Cover over with concrete acc. static requirements. Reinforcement in separate position.

a) Wall thickness 30 cm:	..... RM	at .....€/RM	.....€
b) Wall thickness 36.5 cm:	..... RM	at .....€/RM	.....€
c) Wall thickness 42.5 cm:	..... RM	at .....€/RM	.....€
d) Wall thickness 49 cm:	..... RM	at .....€/RM	.....€

Moisture barrier, floor seating, thermal insulation

Pos. Wall barrier lining **on the wall base** made of R 500 bituminous felt sanded as a moisture barrier as well as to improve flanking sound insulation as strips in width of the wall thickness and delivered installed in mortar.

a) Wall thickness 24 cm:	..... RM	at .....€/RM	.....€
b) Wall thickness 30 cm:	..... RM	at .....€/RM	.....€
c) Wall thickness 36.5 cm:	..... RM	at .....€/RM	.....€
d) Wall thickness 42.5 cm:	..... RM	at .....€/RM	.....€
e) Wall thickness 49 cm:	..... RM	at .....€/RM	.....€

Pos. Deliver wall barrier lining made of an R 500 bituminous felt (no wall barrier foil) and insert **between brickwork and solid ceiling** acc. planning documents or the site management's specifications to avoid jamming from different deformation properties and to reduce thermal and acoustic bridges.

a) Wall thickness 24 cm:	..... RM	at .....€/RM	.....€
b) Wall thickness 30 cm:	..... RM	at .....€/RM	.....€
c) Wall thickness 36.5 cm:	..... RM	at .....€/RM	.....€
d) Wall thickness 42.5 cm:	..... RM	at .....€/RM	.....€
e) Wall thickness 49 cm:	..... RM	at .....€/RM	.....€

Thermal insulation roof-connection detail

Pos. Insertion of a pliable **mineral-fibre tile**; ≥12 cm WLG 040, for reducing the effect of heat bridges **on the wall head** of walls that are led up to the roof covering. Including the balance of the mortar brickwork crown and the application of R 500 bituminous felt sanded. For avoidance of heat bridges. Installation acc. to plan documents or site management specifications.

a) Wall thickness 24 cm:	..... RM	at .....€/RM	.....€
b) Wall thickness 30 cm:	..... RM	at .....€/RM	.....€
c) Wall thickness 36.5 cm:	..... RM	at .....€/RM	.....€
d) Wall thickness 42.5 cm:	..... RM	at .....€/RM	.....€
e) Wall thickness 49 cm:	..... RM	at .....€/RM	.....€

Cellar exterior walls

Pos. **Exterior brickwork** made of **ThermoPlan® TS 12 from JUWÖ**
under permit Z-17.1-1107
Thermal conductibility λ_R = **0.12** W/(m*K) Bulk density class **0.75** kg/dm³
Stone strength class **10** Perm. pressure sp. σ_0 = **1.4** MN/m²
Wall thickness ≥36.5 cm **F 90 A firewall, REI-M 90**
Brick optimized for the noise-protection requirements in multi-family home construction with a noise protection of R_w = 50 dB proven via test certificate (36.5 wall)
Deliver and manufacture according to plan documents and site management specification under DIN 1053 flush and plumb using start and quoin bricks.
Brick laying: **VD system**

a) Wall thickness 36.5 cm:	..... m²	at .....€/m²	.....€
b) Wall thickness 42.5 cm:	..... m²	at .....€/m²	.....€

Interior walls made of flat, vertically perforated brick from JUWÖ

Pos. **Interior brickwork made of ThermoPlan TS Quadrat from JUWÖ**
Permit Z-17.1- 1037 Bulk density class **0.8** kg/dm³
Stone strength class **12** Perm. pressure sp. σ_0 = **1.8** MN/m²
Deliver and manufacture flush and plumb acc. plan documents and site management specifications under DIN 1053.

a) Wall thickness 10 cm:	..... m²	at .....€/m²	.....€
b) Wall thickness 11.5 cm:	..... m²	at .....€/m²	.....€
c) Wall thickness 17.5 cm:	..... m²	at .....€/m²	.....€
d) Wall thickness 24.0 cm:	..... m²	at .....€/m²	.....€

Pos. **Interior brickwork made of flat, vertically perforated brick from JUWÖ**
Permit Z-17.1- 868 Bulk density class **1.2** kg/dm^3**,**
Stone strength class **20** Perm. pressure sp. $\sigma_0 =$ **2.4** MN/m²
Deliver and manufacture flush and plumb acc. plan documents and site management specifications under DIN 1053.

a) Wall thickness 17.5 cm: ..... m² at .....€/m² .....€
b) Wall thickness 24.0 cm: ..... m² at .....€/m² .....€

Pos. **Interior brickwork made of flat, vertically perforated brick from JUWÖ**
Permit Z-17.1- 868 Bulk density class **1.4** kg/dm^3**,**
Stone strength class **20** Perm. pressure sp. $\sigma_0 =$ **2.4** MN/m²
Deliver and manufacture flush and plumb acc. plan documents and site management specifications under DIN 1053.

a) Wall thickness 11.5 cm: ..... m² at .....€/m² .....€
b) Wall thickness 17.5 cm: ..... m² at .....€/m² .....€
c) Wall thickness 24.0 cm: ..... m² at .....€/m² .....€

Precast brick lintel

Pos. Deliver and manufacture **lintel** for covering openings in interior walls made of **precast brick lintels** as supplement to the main brickwork.
Height of the brick lintel: 7.1 cm
Width of the brick lintel: 11.5 cm, 17.5 cm, or 2 x 11.5 cm for the 24 cm wall
Length acc. opening width plus 12.5 cm supporting length on each side
Wall up with normal mortar MG II a

a) Wall thickness 11.5 cm: ..... RM at .....€/RM .....€
b) Wall thickness 17.5 cm: ..... RM at .....€/RM .....€
c) Wall thickness 24 cm: ..... RM at .....€/RM .....€

Pos. Deliver and manufacture **lintel** for covering openings in interior walls made of **precast brick lintels** as supplement to the main brickwork.
Height of the brick lintel: 11.3 cm
Width of the brick lintel: 11.5 cm, 17.5 cm, or 2 x 11.5 cm for the 24 cm wall
Length acc. opening width plus at least 12.5 cm supporting length on each side
Wall up with normal mortar MG II a

a) Wall thickness 11.5 cm: ..... RM at .....€/RM .....€
b) Wall thickness 17.5 cm: ..... RM at .....€/RM .....€
c) Wall thickness 24 cm: ..... RM at .....€/RM .....€

Tie beam, ring beam, stiffening supports made of U-forms

Pos. Deliver and manufacture **tie beam, ring beam** made of U-forms, height 24 cm, length 24 cm, wall up force fit with normal mortar (interior wall). Light concrete cross-section w/h = 9/18 cm (d=17.5 cm) or w/h = 11/18 cm (d=24 cm). Concrete quality according to static requirements. Reinforcement in separate position.

a) Wall thickness 17.5 cm: ..... RM at .....€/RM .....€
b) Wall thickness 24 cm: ..... RM at .....€/RM .....€

Moisture barrier, thermal insulation

Pos. Deliver horizontal **wall barrier lining on the wall base** made of R 500 bituminous felt sanded as strips as wide as the wall is thick and installed in mortar.

a) Wall thickness 11.5 cm: ..... RM at .....€/RM .....€
b) Wall thickness 17.5 cm: ..... RM at .....€/RM .....€
c) Wall thickness 24 cm: ..... RM at .....€/RM .....€

Pos. Deliver **wall barrier lining** made of an R 500 bituminous felt (no wall barrier foil) and insert between **brickwork and solid ceiling** acc. planning documents or the site management's specifications to avoid jamming from different deformation properties and to reduce thermal and acoustic bridges.

a) Wall thickness 11.5 cm: ..... RM at .....€/RM .....€
b) Wall thickness 17.5 cm: ..... RM at .....€/RM .....€
c) Wall thickness 24 cm: ..... RM at .....€/RM .....€

Pos. Insertion of a pliable **mineral-fibre tile**; ≥12 cm WLG 040, for reducing the effect of heat bridges **on the wall head** of walls that are led up to the roof covering to the 500 roofing felt or a mortar adjustment for avoidance of heat bridges acc. planning documents or the site management's specifications.

a) Wall thickness 11.5 cm: ..... RM at .....€/RM .....€
b) Wall thickness 17.5 cm: ..... RM at .....€/RM .....€
c) Wall thickness 24 cm: ..... RM at .....€/RM .....€

Sound protection walls

Single-leaf sound protection walls made of flat fill brick from JUWO

Pos. Deliver **the sound protection wall's brickwork** (party walls, stairwell walls) and manufacture out of **flat fill brick** permit Z-17.1- 537 (17.5 and 24 cm) Z-17.1-688 (30 cm) acc. plan documents and site management specification.

Stone strength class **12** (17.5 and 24 cm) Perm. pressure sp. $\sigma_{0=}$ **2.2** [MN/m²]

Stone strength class **8** (30 cm) Perm. pressure sp. $\sigma_{0=}$ **1.4** [MN/m²]

Wall up from floor to ceiling with thin-bed mortar belonging to the system and fill in with concrete acc. DIN EN 206, strength class ≥C12/15, granularity 0–16 mm, with plasticizer.

a) Wall thickness 17.5 cm: ..... m² at .....€/m² .....€
b) Wall thickness 24 cm: ..... m² at .....€/m² .....€
c) Wall thickness 30 cm: ..... m² at .....€/m² .....€

Double-leaf sound protection walls made of flat fill bricks 2 x 17.5 cm from JUWÖ

Pos. Deliver the **double-leaf house division walls** and manufacture from **flat fill brick** acc. plan documents and site management specification

Permit Z-17.1-537

Stone strength class **12** Perm. pressure sp. $\sigma_{0=}$ **2.2** [MN/m²]

Wall up from floor to ceiling with thin-bed mortar belonging to the system and fill in with concrete acc. DIN EN 206, strength class ≥C12/15, granularity 0–16 mm, with plasticizer. Required amount of concrete mass for d = 17.5 cm approx. 85 L/m².

The dividing joint must be ≥3 cm and is to be tightly joined over the entire surface with **mineral-fibre tiles** under DIN 18165, application area **T** under DIN 4108-10.

a) Wall thickness 2 • 17.5 c ..... m² at .....€/m² .....€

(Price calculation for the entire wall construction)

Double-leaf sound protection walls made of flat, vertically perforated brick 1.4 2 x 17.5 cm from JUWÖ

Pos. Deliver the brickwork of the **sound protection walls** (party walls, house dividing walls) and manufacture two-leafed acc. plan documents and site management specification out of **flat, vertically perforated brick 20 – 1.4 kg/dm³** acc. permit Z-17.1- 868 with butt joint toothing. The dividing wall joint must be **>**3 cm and is to be tightly joined over the entire surface with **mineral-fibre tiles** under DIN 18165, application area **T** under DIN 4108-10.

a) Wall thickness 2 • 17.5 ..... m² at .....€/m² .....€

(Price calculation for the entire wall construction)

Firewalls REI – M 90

Firewalls made of flat brick from JUWÖ plastered on both sides

Pos. **Exterior brickwork** made of **ThermoPlan® S 8 from JUWÖ**
under permit Z-17.1-1013
Thermal conductibility λ_R = **0.08** W/(m*K) Bulk density class **0.60** kg/dm³
Stone strength class **8** Perm. pressure sp. $\sigma_{0=}$ **0.9** MN/m²
Fire resistance class **firewall F 90 A + M**
Deliver and manufacture according to plan documents and site management specification under DIN 1053 flush and plumb using start and quoin bricks.
Brick laying: **VD system**

a) Wall thickness 36.5 cm: ..... m² at .....€/m² .....€
b) Wall thickness 42.5 cm: ..... m² at .....€/m² .....€
c) Wall thickness 49 cm: ..... m² at .....€/m² .....€

Pos. **Exterior brickwork** made of **ThermoPlan® MZ90-G from JUWÖ**
under permit Z-17.1-1087
Thermal conductibility λ_R = **0.09** W/(m*K) Bulk density class **0.70** kg/dm³
Stone strength class **12** Perm. pressure sp. $\sigma_{0=}$ **1.15** MN/m²
Fire resistance class **firewall REI-M 90**
Brick optimized for the noise-protection requirements in multi-family home construction with a noise protection of R_w = 48.3 dB proven via test certificate (30 wall)
Deliver and manufacture according to plan documents and site management specification under DIN 1053 flush and plumb using start and quoin bricks.
Brick laying: **VD system**

a) Wall thickness 30 cm: ..... m² at .....€/m² .....€
b) Wall thickness 36.5 cm: ..... m² at .....€/m² .....€
c) Wall thickness 42.5 cm: ..... m² at .....€/m² .....€

Pos. **Exterior brickwork** made of **ThermoPlan® MZ 10 from JUWÖ**
under permit Z-17.1-1015
Thermal conductibility λ_R = **0.10** W/(m*K) Bulk density class **0.80** kg/dm³
Stone strength class **12** Perm. pressure sp. $\sigma_{0=}$ **1.15** MN/m²
Firewall REI-M 120
Brick optimized for the noise-protection requirements in multi-family home construction with a noise protection of Rw = 51.3 dB proven via test certificate (36.5 wall)
Deliver and manufacture **as firewall** flush and plumb using start and quoin bricks according to plan documents and site management specification under DIN 1053.
Brick laying: **VD system**

a) Wall thickness 30 cm: ..... m² at .....€/m² .....€
b) Wall thickness 36.5 cm: ..... m² at .....€/m² .....€
c) Wall thickness 42.5 cm: ..... m² at .....€/m² .....€

Pos. **Exterior brickwork** made of **ThermoPlan® TS 12 from JUWÖ**
under permit Z-17.1-1107
Thermal conductibility λ_R = **0.12** W/(m*K) Bulk density class **0.75** kg/dm³

Stone strength class **10** Perm. pressure sp. $\sigma_{0=}$ **1.4** MN/m²
Wall thickness ≥36.5 cm **F 90 A firewall, REI-M 90**
Brick optimized for noise-protection requirements in multi-family home construction with a noise protection of R_w = 48.3 dB (30 wall) and R_w = 50 dB (36.5 wall) proven via test certificate
Deliver and manufacture according to plan documents and site management specification under DIN 1053 flush and plumb using start and quoin bricks.
Brick laying: **VD system**

a) Wall thickness 36.5 cm: ..... m² at .....€/m² .....€
b) Wall thickness 42.5 cm: ..... m² at .....€/m² .....€

Firewalls made of flat fill brick from JUWÖ plastered on both sides

Pos. The **firewall's** brickwork **made of flat fill brick**
Deliver and manufacture flush and plumb under permit Z-17.1-537 **as a firewall** acc. planning documents or site management specification pursuant to DIN 1053. Wall up from floor to ceiling with thin-bed mortar belonging to the system and fill in with concrete acc. DIN EN 206, strength class ≥C12/15, granularity 0–16 mm with plasticizer.

a) Wall thickness 17.5 cm: ..... m² at .....€/m² .....€
b) Wall thickness 24 cm: ..... m² at .....€/m² .....€

Firewalls made of ThermoPlan TS Quadrat from JUWÖ plastered on both sides

Pos. **Interior brickwork made of ThermoPlan TS Quadrat from JUWÖ**
Permit Z-17.1- 1037 Bulk density class **0.8** kg/dm³
Stone strength class **12** Perm. pressure sp. $\sigma_{0=}$ **1.8** MN/m²
Deliver and manufacture acc. plan documents and site management specification **as firewall F90 REI-M** pursuant to DIN 1053.

a) Wall thickness 17.5 cm: ..... m² at .....€/m² .....€
b) Wall thickness 24.0 cm: ..... m² at .....€/m² .....€

Firewalls made of flat sound protection brick 1.2 from JUWÖ plastered on both sides

Pos. Brickwork of the **firewalls made of flat brick** (permit Z-17.1- 868)
Bulk density class **1.2** kg/dm³
Stone strength class 20 Perm. pressure sp. $\sigma_{0=}$ **2.4** MN/m²
Deliver and manufacture flush and plumb **as a firewall** acc. planning documents or site management specification pursuant to DIN 1053.

a) Wall thickness 17.5 cm: ..... m² at .....€/m² .....€
b) Wall thickness 24 cm: ..... m² at .....€/m² .....€

Firewalls made of flat sound protection brick 1.4 from JUWÖ plastered on both sides

Pos. Brickwork of the **firewalls made of flat brick** (permit Z-17.1- 868)
Bulk density class **1.4** kg/dm³
Stone strength class **20** Perm. pressure sp. $\sigma_{0=}$ **2.4** MN/m²
Deliver and manufacture flush and plumb **as a firewall** acc. planning documents or site management specification pursuant to DIN 1053.

a) Wall thickness 17.5 cm: ..... m² at .....€/m² .....€
b) Wall thickness 24 cm: ..... m² at .....€/m² .....€

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