

Tender Texts



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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 [m^2].

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.

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External walls

Exterior walls made of ThermoPlan brick from JUWÖ

Brick-laying techniques for flat brick VD¹ system

	Apply mortar with VD roller entire surface c The VD system is strictly specified for all not permitted (except T 11, 19, and 24 cm a	exterior-wall bricks; dip	oping process is
Pos.	Brick-exterior brickwork made of Thermo	Plan [®] MZ 60 from JU	wö
	under permit Z-17.1-1025 Thermal conductibility $\lambda_R = 0.06$ W/(m*K) Stone strength class 6 Fire resistance class –	Bulk density class Perm. pressure sp. $\sigma_{0} =$	0.50 kg/dm³ 0.60 MN/m²
	Deliver and manufacture according to pla management under DIN 1053 flush and plu Brick laying: VD system		
	a) Wall thickness 42.5 cm: m	² at€/m²	€
Pos.	Exterior brickwork made of ThermoPlan® under permit Z-17.1-1084 Thermal conductibility λ _R = 0.07 W/(m*K) Stone strength class Fire resistance class F 30 A (≥30 cr Deliver and manufacture according to pla management under DIN 1053 flush and plu Brick laying: VD system	Bulk density class Perm. pressure sp. σ_0 :n) an documents and info	0.55 MN/m ² ormation from site
	b) Wall thickness 30 cm: m c) Wall thickness 36.5 cm: m d) Wall thickness 42.5 cm: m	at	€ € €
Pos.	Exterior brickwork made of ThermoPlan under permit Z-17.1-906 Thermal conductibility $\lambda_R = 0.08 \text{ W/(m*K)}$ Stone strength class Fire resistance class F 90 A Deliver and manufacture according to plamanagement under DIN 1053 flush and plus Brick laying: VD system	Bulk density class Perm. pressure sp. an documents and info	$\sigma_0 = 0.65 \text{ MN/m}^2$ ormation from site
	,	n² at€/m² n² at€/m²	€

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

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	c) Wall thickness 42.5 cm: m² at
Pos.	Exterior brickwork made of ThermoPlan® S 7 ⁵ from JUWÖ under permit Z-17.1-1077
	Thermal conductibility $\lambda_R = 0.075$ W/(m*K) Bulk density class 0.55 kg/dm³ Stone strength class 4 (6 on request) Perm. pressure sp. $\sigma_0 = 0.45$ (0.65) MN/m²
	Deliver and manufacture according to plan documents and site managemer specification under DIN 1053 flush and plumb using start and quoin bricks. Brick laying: VD system
	a) Wall thickness 42.5 cm: m² at∉/m²b) 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 $\lambda_R = 0.08 \text{ W/(m*K)}$ Bulk density class 0.60 kg/dm^3 Stone strength class 0.60 kg/dm^3 Perm. pressure sp. $\sigma_0 = 0.9 \text{ MN/m}^2$ Fire resistance class firewall F 90 A + M Deliver and manufacture according to plan documents and information from sit management under DIN 1053 flush and plumb using start and quoin bricks. Brick laying: VD system
	a) Wall thickness 36.5 cm: m² at
Pos.	Exterior brickwork made of ThermoPlan® S 9 from JUWÖ under permit Z-17.1-1013 Thermal conductibility $\lambda_R = 0.09 \text{ W/(m*K)}$ Bulk density class 0.60/0.65 kg/dm
	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 sit management under DIN 1053 flush and plumb using start and quoin bricks. Brick laying: VD system
	a) Wall thickness 30 cm:
Pos.	Exterior brickwork made of ThermoPlan® T 10 from JUWÖ under permit Z-17.1-1047 Thermal conductibility $\lambda_R = 0.10$ W/(m*K) Bulk density class $0.65/0.70$ kg/dm Stone strength class 8 Perm. pressure sp. $\sigma_0 = 0.9$ MN/m² Deliver and manufacture according to plan documents and information from sit management under DIN 1053 flush and plumb using start and quoin bricks. Brick laying: VD system

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	a) Wall thickness 30 cm:
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. σ_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
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. σ_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: m^2 at $ \not\in /m^2$ \notin b) Wall thickness 36.5 cm: m^2 at $ \not\in /m^2$ \notin c) Wall thickness 42.5 cm: m^2 at $ \not\in /m^2$ \notin
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 $\lambda_R = 0.11$ 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, $36.5 = F90$ 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: m^2 at $e^{-(m^2)}$
	b) Wall thickness 24 cm: m^2 at $ \not\in /m^2$ $ \not\in$ c) Wall thickness 30 cm: m^2 at $ \not\in /m^2$ $ \not\in$ d) Wall thickness 36.5 cm: m^2 at $ \not\in /m^2$ $ \not\in$
Pos.	Exterior brickwork made of ThermoPlan® TS 12 from JUWÖ under permit Z-17.1-1107

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Stone strength class Perm. pressure sp. $\sigma_0 = 1.4 \text{ MN/m}^2$ 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 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 $\lambda_R = 0.14 \text{ W/(m*K)}$ Bulk density class **0.70** kg/dm³ Perm. pressure sp. $\sigma_{0} = 1.3 \text{ MN/m}^2$ Stone strength class 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€m² at∯m²€ b) Wall thickness 30 cm: 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€€€ 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€€€

Thermal conductibility $\lambda_R = 0.12 \text{ W/(m*K)}$

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Bulk density class

0.75 kg/dm³

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

Pos.	24 cm, wall up force fit with in layer (WLG 035) d \geq 6 cm	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:		at€/RM	€			
	c) Wall thickness 36.5 cm:		at€/RM	€			
	d) Wall thickness 42.5 cm:	RM	atf/RM	€			
	e) Wall thickness 49 cm:	RM	at€/RM	€			
Pos.	Deliver and manufacture tie WU-forms , height 24 cm, ler mortar. Cover over with concr position.	ngth 24 cm, wal	II up force fit with ins	sulating or thin-bed			
	a) Wall thickness 30 cm:	RM	at€/RM	€			
	b) Wall thickness 36.5 cm:		at€/RM	€			
	c) Wall thickness 42.5 cm:		at€/RM	€			
	d) Wall thickness 49 cm:		atf/RM	€			
Moistur	re barrier, floor seating, therma	al insulation					
Pos.	Wall barrier lining on the w moisture barrier as well as to the wall thickness and deliver	improve flankir	ng sound insulation a				
	a) Wall thickness 24 cm:	RM	at€/RM	€			
	b) Wall thickness 30 cm:	RM	at€/RM	€			
	c) Wall thickness 36.5 cm:		at€/RM	€			
	d) Wall thickness 42.5 cm:		at€/RM	€			
	e) Wall thickness 49 cm:		at€/RM	€			
Pos.	Deliver wall barrier lining madinsert between brickwork a management's specifications and to reduce thermal and according to the second	nd solid ceilin to avoid jammir	g acc. planning doc	uments or the site			
	a) Wall thickness 24 cm:	RM	at€/RM	€			
	b) Wall thickness 30 cm:		at€/RM	€			
	c) Wall thickness 36.5 cm:		at€/RM	€			
	C) Wall thickness 30.3 cm						
	•						
	d) Wall thickness 42.5 cm: e) Wall thickness 49 cm:	RM	at€/RM at€/RM	€			

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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.

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

Cellar exterior walls

Pos. Exterior brickwork made of ThermoPlan® TS 12 from JUWÖ

under permit Z-17.1-1107

Thermal conductibility $\lambda_R =$ **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 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	5 cm: m²	at∯m² .	€
b) Wall thickness 42.5	5 cm: m ²	atf/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 $\bf 0.8~kg/dm^3$ Stone strength class $\bf 12$ Perm. pressure sp. $\sigma_0 = \bf 1.8~MN/m^2$

Deliver and manufacture flush and plumb acc. plan documents and site management specifications under DIN 1053.

€	at∯m²	m²	10 cm:	a) Wall thickness
€	at∯m²	m²	11.5 cm:	b) Wall thickness
€	at∯m²	m²	17.5 cm:	c) Wall thickness
€	at ∉/m²	m²	24 0 cm	d) Wall thickness

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Pos.	Interior brickwork made of flat, vertically perforated brick from JUWÖ 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 acc. plan documents and site mana specifications under DIN 1053.			m³, MN/m²	
	a) Wall thicknessb) Wall thickness			at€/m² at€/m²	€
Pos.	Permit Z-17.1- 86 Stone strength cla	8 ass 20 ufacture flush	Bulk densi Perm. pres and plumb acc	erforated brick fro ity class 1.4 kg/di ssure sp. σ ₀₌ 2.4 M . plan documents	m^3 ,
	a) Wall thicknessb) Wall thicknessc) Wall thickness	17.5 cm:	m²	at∯m²	€ €
Precast	brick lintel				
Pos.	brick lintels as s Height of the bri Width of the brick	upplement to ck lintel: 7. 1 lintel: 11.5 o ing width plu	o the main bricky I cm cm, 17.5 cm, or 2 is 12.5 cm suppo		
	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 preca 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			24 cm wall	
	b) Wall thickness	17.5 cm:	RM	at€/RM at€/RM at€/RM	€

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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, leng 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.				concrete cross-section
	a) Wall thickness b) Wall thickness 2			at€/RM	
	,				
Moisture	e barrier, thermal	insulation	n		
Pos.	Deliver horizontal v sanded as strips as				f R 500 bituminous felt tar.
	a) Wall thickness b) Wall thickness c) Wall thickness	17.5 cm:	RM	at€/RM at€/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.			documents or the site	
	a) Wall thickness b) Wall thickness c) Wall thickness	17.5 cm:	RM		€
Pos.	heat bridges on th	n <mark>e wall head</mark> mortar adju	d of walls that and ustment for avo	re led up to the ro idance of heat	reducing the effect of pof covering to the 500 bridges acc. planning
	a) Wall thickness b) Wall thickness c) Wall thickness	17.5 cm:	RM	at∉/RM at∉/RM at€/RM	€

Sound protection walls

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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 \geq C12/15, granularity 0–16 mm, with plasticizer.			
	a) Wall thickness 17.5 cm: m^2 at $ \not\in /m^2$ $ \not\in$ b) Wall thickness 24 cm: m^2 at $ \not\in /m^2$ $ \not\in$ c) Wall thickness 30 cm: m^2 at $ \not\in /m^2$ $ \not\in$			
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. σ 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			
	-leaf sound protection walls made of flat, vertically perforated brick 1.4 cm from JUWÖ			
2 X 17 K				
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			
Firew	alls REI – M 90			

Firewalls made of flat brick from JUWÖ plastered on both sides

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Pos.	Exterior brickwork made of ThermoPlan® S 8 from JUWÖ under permit Z-17.1-1013		
	Thermal conductibility $\lambda_R = 0.08 \text{ W/(m*K)}$ Stone strength class 8 Fire resistance class firewall F 90 A + M	Bulk density class 0.60 kg/dm³ Perm. pressure sp. $\sigma_{0=}$ 0.9 MN/m²	
	Deliver and manufacture according to plan specification under DIN 1053 flush and plumb Brick laying: VD system		
	•	at€/m²€ at€/m²€	
Pos.	Exterior brickwork made of ThermoPlan® Ma	700 C from 111WÖ	
P05.	under permit Z-17.1-1087	290-G from JUWO	
	Thermal conductibility $\lambda_R = 0.09 \text{ W/(m*K)}$ Stone strength class 12	Bulk density class 0.70 kg/dm ³ Perm. pressure sp. σ_{0} 1.15 MN/m ²	
	Fire resistance class firewall REI-M 90 Brick optimized for the noise-protection construction with a noise protection of $R_w = 4$ wall)	requirements in multi-family home	
	Deliver and manufacture according to plan specification under DIN 1053 flush and plumb Brick laying: VD system		
	a) Wall thickness 30 cm: m²		
	b) Wall thickness 36.5 cm: m² a c) Wall thickness 42.5 cm: m² a	at€/m²€ at€/m²€	
Pos.	Exterior brickwork made of ThermoPlan® Maunder permit Z-17.1-1015	Z 10 from JUWÖ	
	Thermal conductibility $\lambda_R = 0.10 \text{ W/(m*K)}$ Stone strength class 12 Firewall REI-M 120	Bulk density class 0.80 kg/dm ³ Perm. pressure sp. $\sigma_0 = 1.15$ MN/m ²	
	Brick optimized for the noise-protection construction with a noise protection of Rw = 5 wall)		
	Deliver and manufacture as firewall flush an according to plan documents and site manager Brick laying: VD system		
	a) Wall thickness 30 cm: m²		
	b) Wall thickness 36.5 cm: m ² a c) Wall thickness 42.5 cm: m ² a		
	5, 1. a a		
Pos.	Exterior brickwork made of ThermoPlan® TS	S 12 from JUWÖ	
	under permit Z-17.1-1107 Thermal conductibility $\lambda_{n} = 0.12 \text{ W/(m*K)}$	Rulk density class 0.75 kg/dm3	

Thermal conductibility $\lambda_R = 0.12 \text{ W/(m*K)}$

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Bulk density class

0.75 kg/dm³

Stone strength class 10 Perm. pressure sp. $\sigma_0 = 1.4 \text{ MN/m}^2$ 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€ 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. $\sigma_{0} = 1.8 \text{ MN/m}^2$ 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 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.€ b) Wall thickness 24 cm:m² at∯m²€

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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. $\sigma_0 = 2.4 \text{ MN/m}^2$

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€



Under the roof of



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