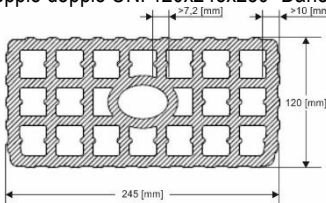


8. In case of the declaration of performance concerning a construction product for which a European Technical Assessment has been issued:

DIBt issued ETA-17/0294 on the basis of EAD 330284-00-0604
 TZUS (n°1020) performed:
 the determination of the product type on the basis of type testing (including sampling), type calculation, tabulated values or descriptive documentation of the product; the initial inspection of the factory and of the factory production control; the continuous surveillance; assessment and approval of the factory production control; under system 1 and issue the certificate of conformity n° 1020-CPR-010039205

9. Declared performance:

HARMONIZED TECHNICAL SPECIFICATION: EAD 330284-00-0604

CHARACTERISTIC OF BASE MATERIALS	PERFORMANCE ACCORDING TO ETA-17/0294			
Base material	Drill method	Use category	Density ρ [kg/dm ³]	Minimum compressive strength f_b [N/mm ²]
Concrete	Rotary + Hammer	a	According to EN 206-1:2000	According to EN 206-1:2000
Masonry type A Solid clay brick according to EN 771-1:2011 Mattone pieno 110x60x240 "Danesi"	Rotary + Hammer	b	1,7	39,0
Masonry type B Solid clay brick according to EN 771-1:2011 Mattone pieno 250x120x55 "Terreal Italia"	Rotary + Hammer	b	1,7	27,0
Masonry type E Vulcanic tuff brick according to EN 771-3:2011 Fior di tufo 370x370x110 "Cave riunite"	Rotary + Hammer	b	2,4	7,5
Masonry type F Calcium silicate solid brick according to EN 771-2:2011 Kalksandsteine KS-Plansteine KS-R(P)-20-2,0-8DF (240) "Heidelberger-Kalksandstein"	Rotary + Hammer	b	1,9	28,2
Masonry type C Hollow clay brick according to EN 771-1:2011 Doppio doppio UNI 120x245x250 "Danesi" 	Rotary	c	0.9	13.0

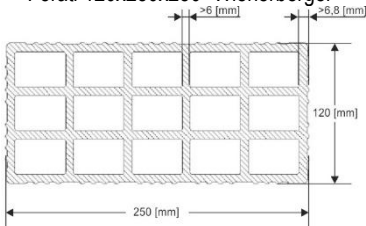
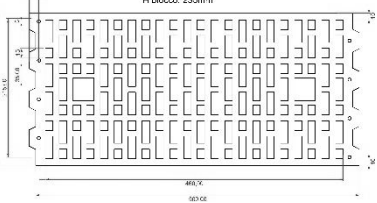
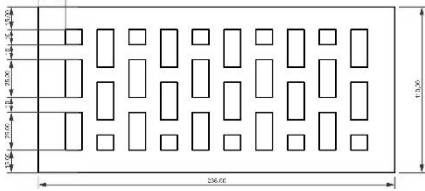
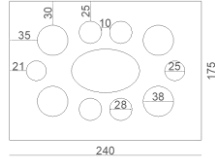
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HARMONIZED TECHNICAL SPECIFICATION: EAD 330284-00-0604				
CHARACTERISTIC OF BASE MATERIALS		PERFORMANCE ACCORDING TO ETA-17/0294		
Base material	Drill method	Use category	Density ρ [kg/dm ³]	Minimum compressive strength f_b [N/mm ²]
<p>Masonry type D Hollow clay brick according to EN 771-1:2011 Forati 120x250x250 "Wienerberger"</p> 	Rotary	c	0,6	2,0
<p>Masonry type G Hollow brick according to EN 771-1:2011 Poroton-Hochlochziegel-Block-T-24,0-0,9 L "Wienerberger"</p> 	Rotary	c	0,9	7,0
<p>Masonry type H Hollow clay brick according to EN 771-1:2011 Poroton-Kleinformat HlzB- 2DF -0,9 "Wienerberger" H Blocco : 112mm</p> 	Rotary	c	0,9	16,4
<p>Masonry type I Hollow brick (calcium silicate) according to EN 771-2:2011 "Heidelberger-Kalksandstein" KS-L</p> 	Rotary	c	1,5	16,3
<p>AAC Concrete Non-cracked aerated autoclaved concrete (AAC Blocks) according to EN 771-4:2011</p>	Rotary	d	0,5	3,5

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HARMONIZED TECHNICAL SPECIFICATION: EAD 330284-00-0604		
ESSENTIAL CHARACTERISTICS		PERFORMANCE ACCORDING TO ETA-17/0294
Installation parameters		
		Ø 8
		Ø 10
d [mm]		8
d vite [mm]		6
d ₀ [mm]		8
d _f [mm]		9
h ₁ [mm]		90
t _{fix} [mm]	Min	10
	Max	70
Torx T		30
SW only hexagonal head [mm]		10
		40
		13
Concrete		
		Ø 8
		Ø 10
S _{min} [mm]		90
C _{min} [mm]		90
h _{min} [mm]		140
S _{cr,N} [mm]		75
C _{cr,N} [mm]		105
Masonry type A		
		Ø 8
		Ø 10
h _{min} [mm]		110
Single fixing		
C _{min} [mm]		120
Group fixing		
S _{1,min} [mm]		240
S _{2,min} [mm]		480
C _{min} [mm]		120
Masonry type B		
		Ø 8
		Ø 10
h _{min} [mm]		120
Single fixing		
C _{min} [mm]		125
Group fixing		
S _{1,min} [mm]		250
S _{2,min} [mm]		500
C _{min} [mm]		125
Masonry type E		
		Ø 8
		Ø 10
h _{min} [mm]		370
Single fixing		
C _{min} [mm]		185
Group fixing		
S _{1,min} [mm]		370
S _{2,min} [mm]		740
C _{min} [mm]		185

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HARMONIZED TECHNICAL SPECIFICATION: EAD 330284-00-0604		
ESSENTIAL CHARACTERISTICS	PERFORMANCE ACCORDING TO ETA-17/0294	
Masonry type F	Ø 8	Ø 10
h _{min} [mm]	240	
Single fixing		
C _{min} [mm]	120	
Group fixing		
S _{1,min} [mm]	240	
S _{2,min} [mm]	480	
C _{min} [mm]	120	
Masonry type C	Ø 8	Ø 10
h _{min} [mm]	120	
Single fixing		
C _{min} [mm]	125	
Group fixing		
S _{1,min} [mm]	250	
S _{2,min} [mm]	500	
C _{min} [mm]	125	
Masonry type D	Ø 8	Ø 10
h _{min} [mm]	120	
Single fixing		
C _{min} [mm]	125	
Group fixing		
S _{1,min} [mm]	250	
S _{2,min} [mm]	500	
C _{min} [mm]	75	
Masonry type G	Ø 8	Ø 10
h _{min} [mm]	240	
Single fixing		
C _{min} [mm]	120	
Group fixing		
S _{1,min} [mm]	240	
S _{2,min} [mm]	480	
C _{min} [mm]	120	
Masonry type H	Ø 8	Ø 10
h _{min} [mm]	115	
Single fixing		
C _{min} [mm]	120	
Group fixing		
S _{1,min} [mm]	240	
S _{2,min} [mm]	480	
C _{min} [mm]	120	

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HARMONIZED TECHNICAL SPECIFICATION: EAD 330284-00-0604		
ESSENTIAL CHARACTERISTICS	PERFORMANCE ACCORDING TO ETA-17/0294	
Masonry type I	Ø 8	Ø 10
h_{min} [mm]	175	
Single fixing		
C_{min} [mm]	120	
Group fixing		
$S_{1,min}$ [mm]	240	
$S_{2,min}$ [mm]	480	
C_{min} [mm]	120	
AAC	Ø 8	Ø 10
h_{min} [mm]	240	
Single fixing		
C_{min} [mm]	120	
Group fixing		
$S_{1,min}$ [mm]	240	
$S_{2,min}$ [mm]	480	
C_{min} [mm]	120	

HARMONIZED TECHNICAL SPECIFICATION: EAD 330284-00-0604				
ESSENTIAL CHARACTERISTICS	PERFORMANCE ACCORDING TO ETA-17/0294			
Parameters	Ø 8		Ø 10	
	galvanized	Inox A4	galvanized	Inox A4
$M_{Rk,s}$ [Nm]	12,1	16,9	19,3	27,1
γ_{Ms}	1,25			
$N_{Rk,s}$ [kN]	11,3	15,8	15,4	21,6
γ_{Ms}	1,5			
$V_{Rk,s}$ [kN]	5,6	7,9	7,7	10,8
γ_{Ms}	1,25			
Resistance pull-out for concrete (Class \geq C16/20)	Ø 8		Ø 10	
	24/40 °C	50/80 °C	24/40 °C	50/80 °C
$N_{Rk,p}$ [kN]	3,5	3,0	4,5	4,0
γ_{Mc}	1,8			

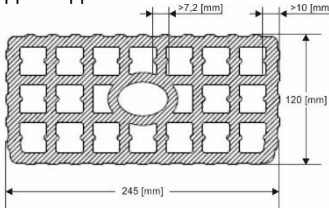
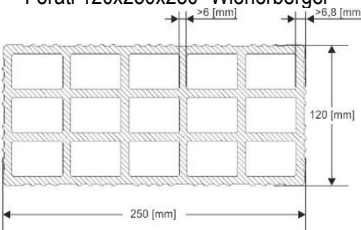
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HARMONIZED TECHNICAL SPECIFICATION: EAD 330284-00-0604					
CHARACTERISTIC RESISTANCE	PERFORMANCE ACCORDING TO ETA-17/0294				
Base material	Drill method	Density ρ [kg/dm ³]	Minimum compressive strength f_b [N/mm ²]	$\varnothing 8$ F_{Rk} [kN]	$\varnothing 10$ F_{Rk} [kN]
Masonry type A Solid clay brick according to EN 771-1:2011 Mattone pieno 110x60x240 "Danesi"	Rotary + Hammer	1,7	39,0	3,0	2,0
Masonry type B Solid clay brick according to EN 771-1:2011 Mattone pieno 250x120x55 "Terreal Italia"	Rotary + Hammer	1,7	27,0	4,0	5,0
Masonry type E Vulcanic tuff brick according to EN 771-3:2011 Fior di tufo 370x370x110 "Cave riunite"	Rotary + Hammer	2,4	7,5	-	0,3
Masonry type F Calcium silicate solid brick according to EN 771-2:2011 Kalksandsteine KS-Plansteine KS-R(P)-20-2,0-8DF (240) "Heidelberger-Kalksandstein"	Rotary + Hammer	1,9	28,2	5,5	6,0
Masonry type C Hollow clay brick according to EN 771-1:2011 Doppio doppio UNI 120x245x250 "Danesi" 	Rotary	0,9	13,0	-	0,3
Masonry type D Hollow clay brick according to EN 771-1:2011 Forati 120x250x250 "Wienerberger" 	Rotary	0,6	2,0	0,3	-

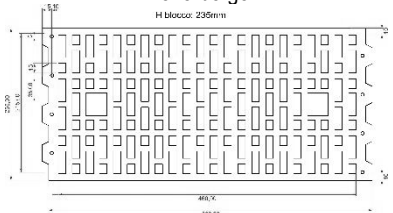
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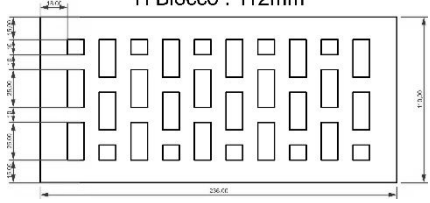
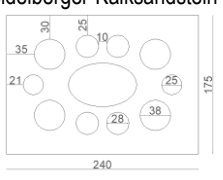
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<p>Masonry type G Hollow brick according to EN 771-1:2011 Poroton-Hochlochziegel-Block-T-24,0-0,9 L "Wienerberger"</p> 	Rotary	0,9	7,0	0,9	0,9
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HARMONIZED TECHNICAL SPECIFICATION: EAD 330284-00-0604					
CHARACTERISTIC RESISTANCE		PERFORMANCE ACCORDING TO ETA-17/0294			
Base material	Drill method	Density ρ [kg/dm ³]	Minimum compressive strength f_b [N/mm ²]	$\varnothing 8$ F_{Rk} [kN]	$\varnothing 10$ F_{Rk} [kN]
<p>Masonry type H Hollow clay brick according to EN 771-1:2011 Poroton-Kleinformat HlzB- 2DF -0,9 "Wienerberger" H Blocco : 112mm</p> 	Rotary	0,9	16,4	0,9	0,9
<p>Masonry type I Hollow brick (calcium silicate) according to EN 771-2:2011 "Heidelberger-Kalksandstein" KS-L</p> 	Rotary	1,5	16,3	5,0	5,5
<p>AAC Concrete Non-cracked aerated autoclaved concrete (AAC Blocks) according to EN 771-4:2011</p>	Rotary	0,5	3,5	0,5	0,6

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HARMONIZED TECHNICAL SPECIFICATION: EAD 330284-00-0604			
CHARACTERISTIC RESISTANCE		PERFORMANCE ACCORDING TO ETA-17/0294	
Parameters		Ø 8	Ø 10
Concrete			
Traction service load in concrete N [kN]		1,2	1,6
Displacement	δ_{N0} [mm]	0,24	0,29
	$\delta_{N\infty}$ [mm]	0,48	0,58
Shear service load in concrete V [kN]		3,2	4,4
Displacement	δ_{V0} [mm]	2,00	1,67
	$\delta_{V\infty}$ [mm]	3,00	2,50
Masonry type A			
Traction service load N [kN]		0,9	0,6
Displacement	δ_{N0} [mm]	0,04	0,06
	$\delta_{N\infty}$ [mm]	0,08	0,12
Masonry type B			
Traction service load N [kN]		1,1	1,4
Displacement	δ_{N0} [mm]	0,25	0,67
	$\delta_{N\infty}$ [mm]	0,50	1,34
Masonry type E			
Traction service load N [kN]		0,09	-
Displacement	δ_{N0} [mm]	0,01	-
	$\delta_{N\infty}$ [mm]	0,02	-
Masonry type F			
Traction service load N [kN]		1,57	1,71
Displacement	δ_{N0} [mm]	0,14	0,07
	$\delta_{N\infty}$ [mm]	0,29	0,15
Masonry type A,B,E			
Shear service load V [kN]		3,2	4,4
Displacement	δ_{N0} [mm]	2,67	3,67
	$\delta_{N\infty}$ [mm]	4,00	5,50
Masonry type F			
Shear service load V [kN]		1,57	1,71
Displacement	δ_{N0} [mm]	1,31	1,43
	$\delta_{N\infty}$ [mm]	1,96	2,14
Masonry type C			
Traction service load N [kN]		-	0,09
Displacement	δ_{N0} [mm]	-	0,12
	$\delta_{N\infty}$ [mm]	-	0,24
Masonry type D			
Traction service load N [kN]		0,09	-
Displacement	δ_{N0} [mm]	0,03	-
	$\delta_{N\infty}$ [mm]	0,06	-

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HARMONIZED TECHNICAL SPECIFICATION: EAD 330284-00-0604			
CHARACTERISTIC RESISTANCE		PERFORMANCE ACCORDING TO ETA-17/0294	
Masonry type G			
Traction service load N [kN]		0,26	0,26
Displacement	δ_{N0} [mm]	0,01	0,01
	$\delta_{N\infty}$ [mm]	0,02	0,02
Masonry type H			
Traction service load N [kN]		0,26	0,26
Displacement	δ_{N0} [mm]	0,01	0,01
	$\delta_{N\infty}$ [mm]	0,02	0,02
Masonry type I			
Traction service load N [kN]		1,43	1,57
Displacement	δ_{N0} [mm]	0,11	0,08
	$\delta_{N\infty}$ [mm]	0,21	0,17
Masonry type C,D			
Shear service load V [kN]		3,2	4,4
Displacement	δ_{V0} [mm]	6,40	8,80
	$\delta_{V\infty}$ [mm]	9,60	13,20
Masonry type G,H			
Shear service load V [kN]		0,26	0,26
Displacement	δ_{V0} [mm]	0,21	0,21
	$\delta_{V\infty}$ [mm]	0,32	0,32
Masonry type I			
Shear service load V [kN]		1,43	1,57
Displacement	δ_{V0} [mm]	1,19	1,31
	$\delta_{V\infty}$ [mm]	1,79	1,96
AAC			
Traction service load N [kN]		0,18	0,21
Displacement	δ_{N0} [mm]	0,01	0,01
	$\delta_{N\infty}$ [mm]	0,02	0,02
Shear service load V [kN]		0,18	0,21
Displacement	δ_{V0} [mm]	0,36	0,43
	$\delta_{V\infty}$ [mm]	0,54	0,64

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HARMONIZED TECHNICAL SPECIFICATION: EAD 330284-00-0604	
ESSENTIAL CHARACTERISTICS	PERFORMANCE
Reaction to fire	NPD

HARMONIZED TECHNICAL SPECIFICATION: EAD 330284-00-0604	
ESSENTIAL CHARACTERISTICS	PERFORMANCE
Resistance to fire	According to EOTA TR020 for diameter $\varnothing 10$
FRk [kN] R 90	0,8

TERMINOLOGY AND SYMBOLS	
d	Diameter of anchor bolt or thread diameter
d ₀	Drill hole diameter
d _{fix}	Diameter of clearance hole in the fixture
h _{ef}	Effective anchorage depth
h ₁	Depth of the drilling hole
T _{inst}	Torque moment to installation
t _{fix}	Thickness to be fixed
S _{min}	Minimum allowable spacing
C _{min}	Minimum allowable edge distance
N _{Rk}	Characteristic tensile resistance for single anchor
V _{Rk}	Characteristic shear resistance for single anchor
N _{R,pk}	Characteristic pull-out resistance for single anchorage
F _{Rk}	Characteristic resistance in generic direction
M _{Rk,s}	Characteristic bending moment
γ_{Mm}	Partial safety factors
S _{cr,N}	Spacing for ensuring the transmission of the characteristic tensile resistance of a single anchor without spacing and edge effects
C _{cr,N}	Edge distance for ensuring the transmission of the characteristic tensile resistance of a single anchor without spacing and edge effects
F	Service load
δ_0	Short term displacement under service load
δ_{∞}	Long term displacement under service load
NPD	No declared performance

<p>10. The performance of the product identified in points 1 and 2 is in conformity with the declared performance in point 9. This declaration of performance is issued under the sole responsibility of the manufacturer identified in point 4. Signed for and on behalf of the manufacturer by:</p>		
Name and function	Place and date of issue	Signature
<p>Andrea Taddei General Manager</p>	<p>Grassobbio (Bg) - Italy 13.03.2026</p>	

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