DIASEN
IMPROVE YOUR BUILDING

DIATHONITE

The cork based plaster

Thermal, dehumidifying and soundproofing

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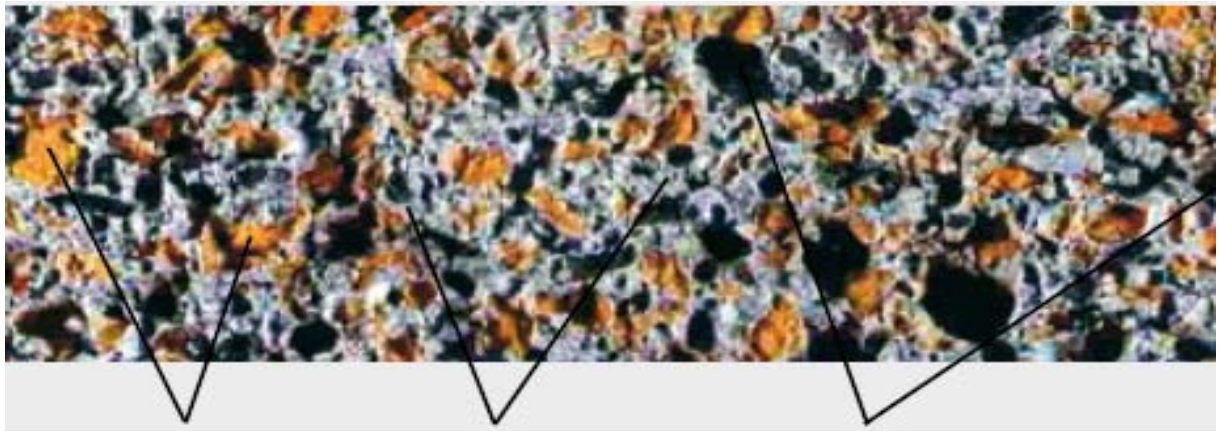
DIATHONITE

- ***Cork***
- ***Clay***
- ***Diatomite***
- ***Natural Hydraulic Lime (NHL 3.5)***
- ***Fybers***



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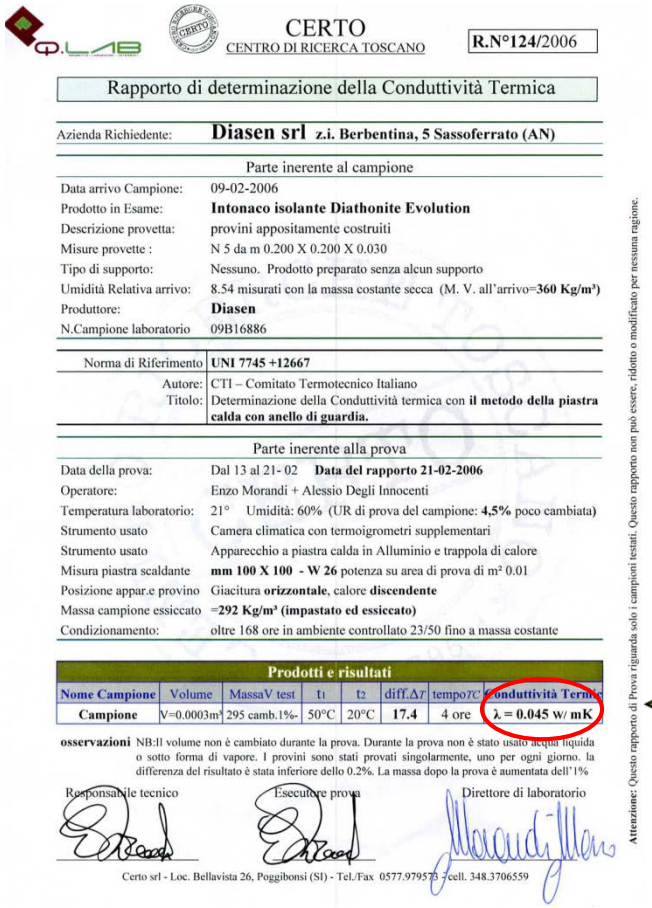
THERMAL CONDUCTIVITY
(λ lambda)



CERTO
CENTRO DI RICERCA TOSCANO

R.N°124/2006

Rapporto di determinazione della Conduttività Termica

Azienda Richiedente:	**Diasen srl** z.i. Berbentina, 5 Sassoferrato (AN)

Parte inerente al campione

Data arrivo Campione:	09-02-2006
Prodotto in Esame:	**Intonaco isolante Diathonite Evolution**
Descrizione provetta:	provini appositamente costruiti
Misure provette :	N 5 da m 0.200 X 0.200 X 0.030
Tipo di supporto:	Nessuno. Prodotto preparato senza alcun supporto
Umidità Relativa arrivo:	8.54 misurati con la massa costante secca (M. V. all'arrivo=**360 Kg/m³**)
Produttore:	**Diasen**
N.Campione laboratorio	09B16886

Norma di Riferimento	**UNI 7745 +12667**
Autore:	CTI – Comitato Termotecnico Italiano
Titolo:	Determinazione della Conduttività termica con **il metodo della piastra calda con anello di guardia.**

Parte inerente alla prova

Data della prova:	Dal 13 al 21- 02 **Data del rapporto 21-02-2006**
Operatore:	Enzo Morandi + Alessio Degli Innocenti
Temperatura laboratorio:	21° Umidità: 60% (UR di prova del campione: **4,5%** poco cambiata)
Strumento usato	Camera climatica con termoigrometri supplementari
Strumento usato	Apparecchio a piastra calda in Alluminio e trappola di calore
Misura piastra scaldante	**mm 100 X 100 - W 26** potenza su area di prova di m² 0.01
Posizione appar.e provino	Giacitura **orizzontale**, calore **discendente**
Massa campione essiccato	**=292 Kg/m³ (impastato ed essiccato)**
Condizionamento:	oltre 168 ore in ambiente controllato 23/50 fino a massa costante

Prodotti e risultati

Nome Campione	Volume	MassaV test	t1	t2	diff.Δ7	tempo7G	Conduttività Termica
Campione	V=0.0003m³	295 camb.1%-	50°C	20°C	**17.4**	4 ore	**λ = 0.045 w/ mK**

osservazioni NB:Il volume non è cambiato durante la prova. Durante la prova non è stato usato acqua liquida o sotto forma di vapore. I provini sono stati provati singolarmente, uno per ogni giorno. la differenza del risultato è stata inferiore dello 0.2%. La massa dopo la prova è aumentata dell'1%

Responsabile tecnico | Esecutore prova | Direttore di laboratorio

Certo srl - Loc. Bellavista 26, Poggibonsi (SI) - Tel./Fax 0577.979573 - cell. 348.3706559

Attenzione: Questo rapporto di Prova riguarda solo i campioni testati. Questo rapporto non può essere, ridotto o modificato per nessuna ragione.

λ = 0,045 W/mK

-Probably the most thermal plaster available on the market

-The product can claim excellent thermal skills thanks to to the presence of cork

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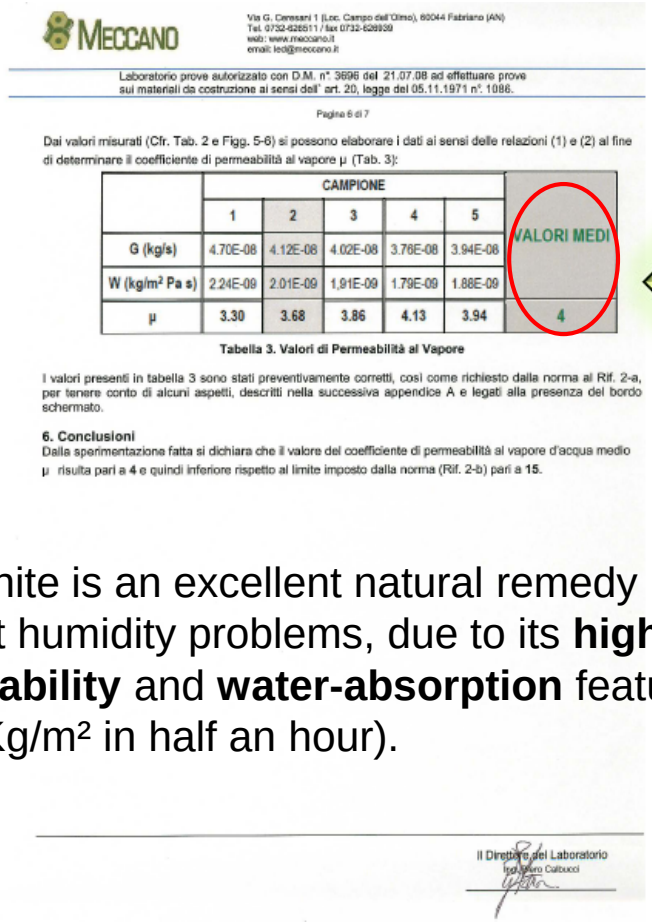
BREATHABILITY



MECCANO

Via G. Cerasani 1 (Loc. Campo dell'Olmo), 60044 Fabriano (AN)
Tel. 0732-626511 / fax 0732-626939
web: www.meccano.it
email: lecl@meccano.it

Laboratorio prove autorizzato con D.M. n°. 3696 del 21.07.08 ad effettuare prove sui materiali da costruzione ai sensi dell' art. 20, legge del 05.11.1971 n°. 1086.

Pagina 6 di 7

Dai valori misurati (Cfr. Tab. 2 e Figg. 5-6) si possono elaborare i dati ai sensi delle relazioni (1) e (2) al fine di determinare il coefficiente di permeabilità al vapore μ (Tab. 3):

	CAMPIONE					
	1	2	3	4	5	VALORI MEDI
G (kg/s)	4.70E-08	4.12E-08	4.02E-08	3.76E-08	3.94E-08	
W (kg/m² Pa s)	2.24E-09	2.01E-09	1.91E-09	1.79E-09	1.88E-09	
μ	3.30	3.68	3.86	4.13	3.94	4

Tabella 3. Valori di Permeabilità al Vapore

I valori presenti in tabella 3 sono stati preventivamente corretti, così come richiesto dalla norma al Rif. 2-a, per tenere conto di alcuni aspetti, descritti nella successiva appendice A e legati alla presenza del bordo schermato.

6. Conclusioni

Dalla sperimentazione fatta si dichiara che il valore del coefficiente di permeabilità al vapore d'acqua medio μ risulta pari a **4** e quindi inferiore rispetto al limite imposto dalla norma (Rif. 2-b) pari a **15**.

Il Direttore del Laboratorio
Ing. Mauro Calbucci

Thanks to the presence of several microcavities and hollows, the product lets the walls breathe and guarantees the right hygrometric balance of the building.

$\mu = 4$

The most **breathable** thermal plaster available on the market

Diathonite is an excellent natural remedy against humidity problems, due to its **high breathability** and **water-absorption** features (0,35 Kg/m² in half an hour).

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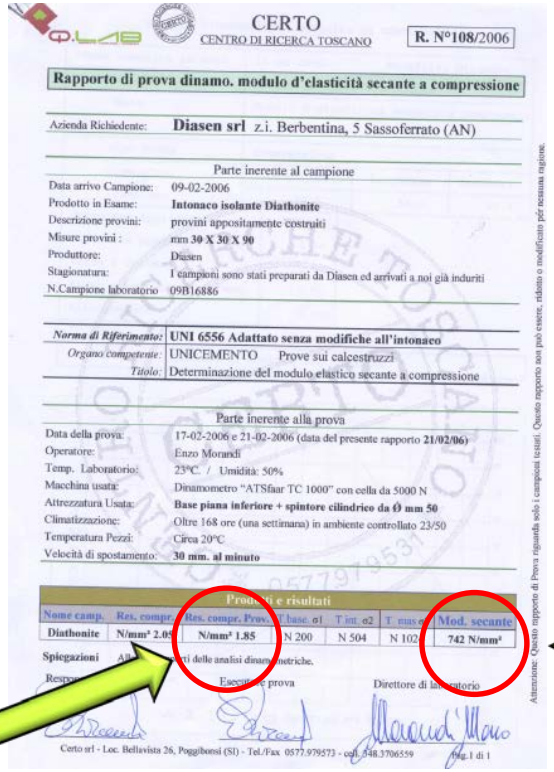
ELASTICITY + MECHANICAL RESISTANCE



CERTO
CENTRO DI RICERCA TOSCANO

R. N°108/2006

Rapporto di prova dinamo. modulo d'elasticità secante a compressione

Azienda Richiedente: **Diasen srl** z.i. Berbentina, 5 Sassoferrato (AN)

Parte inerente al campione

Data arrivo Campione:	09-02-2006
Prodotto in Esame:	**Intonaco isolante Diathonite**
Descrizione provini:	provini appositamente costruiti
Misure provini :	mm **30 X 30 X 90**
Produttore:	Diasen
Stagionatura:	I campioni sono stati preparati da Diasen ed arrivati a noi già induriti
N.Campione laboratorio	09B16886

Norma di Riferimento:	**UNI 6556 Adattato senza modifiche all'intonaco**
Organo competente:	UNICEMENTO Prove sui calcestruzzi
Titolo:	Determinazione del modulo elastico secante a compressione

Parte inerente alla prova

Data della prova:	17-02-2006 e 21-02-2006 (data del presente rapporto **21/02/06**)
Operatore:	Enzo Morandi
Temp. Laboratorio:	23°C / Umidità: 50%
Macchina usata:	Dinamometro "ATSfaar TC 1000" con cella da 5000 N
Attrezzatura Usata:	**Base piana inferiore + spintore cilindrico da Ø mm 50**
Climatizzazione:	Oltre 168 ore (una settimana) in ambiente controllato 23/50
Temperatura Pezzi:	Circa 20°C
Velocità di spostamento:	**30 mm. al minuto**

Prodotti e risultati

Nome camp.	Res. compr.	Res. compr. Prov.	E base. σ1	T int. σ2	T. max σ3	Mod. secante
Diathonite	**N/mm² 2.05**	**N/mm² 1.85**	N 200	N 504	N 102	**742 N/mm²**

Spiegazioni ... delle analisi dinamometriche.

Esecutore prova — Direttore di laboratorio

Certo srl - Loc. Bellavista 26, Poggibonsi (SI) - Tel./Fax 0577.979573 - cell. 348.3706559 — Pag.1 di 1

Attenzione: Questo rapporto di Prova riguarda solo i campioni testati. Questo rapporto non può essere, ridotto o modificato per nessuna ragione.

742 N/mm²: 3 times more elastic than a traditional plaster (important to avoid cracks)

1,85 N/mm²: Mechanical Resistance

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FIRE RESISTANCE

LAPI LABORATORIO PREVENZIONE INCENDI S.p.A.
Sede Primaria: I-59100 PRATO - Via della Querce, 11
Telefono +39 0574 575 320 - Telefax +39 0574 575 323
Sede Secondaria: I-50041 CALENZANO (FI) - Via Petrarca, 68
e.mail: lapi@laboratoriolapi.it
web site: www.laboratoriolapi.it

Notified Body N°0987
Directive 89/106 CEE

ATTESTAZIONE DI CLASSIFICAZIONE ACL/554/11/CPD/- -
Classification Assessment

Quando applicabile il presente documento viene emesso in ottemperanza della direttiva 89/106/CEE della Comunità Economica Europea, del 21 Dicembre 1988 e in relazione alle leggi, regolamenti e procedimenti amministrativi degli Stati Membri concernenti i prodotti da costruzione (CPD) aggiornata con la direttiva 93/68/CEE del Consiglio della Comunità Europea del 22 luglio 1993, si stabilisce che:
When applicable the following document has been issued in compliance with the Directive 89/106/EEC of the Council of European Communities of 21 December 1988 on the approximation of law, regulations and administrative provisions of the Member States relating to the construction products (Construction Products Directive - CPD), amended by the Directive 93/68/EEC of the Council of European Communities of 22 July 1993, it has been stated that the construction product :

RAPPORTO DI CLASSIFICAZIONE DI REAZIONE AL FUOCO N° 554.0DC0055/11
Reaction to fire classification report n°.

CLASSIFICAZIONE RICHIESTA DA / *Classification on behalf of*
DIASEN S.r.l.
Zona Industriale Berbentina, 5 - 60044 SASSOFERRATO (AN) - ITALY

DENOMINAZIONE COMMERCIALE DEL MATERIALE / *Trade name of the material*
DIATHONITE EVOLUTION

METODI DI PROVA / *Test methods*
EN ISO 1716: 2010 and **EN 13823: 2010**

STANDARD DI PRODOTTO / *Product Standard*
Non applicabile / *Not applicable*
(Prove non eseguite in accordo ad alcun standard di prodotto)
(Tests not carried out in accordance to any product standard)

METODO DI CLASSIFICAZIONE / *Classification standard*
EN 13501-1: 2009
Fire classification of construction products and building elements -
Part 1: Classification using test data from reaction to fire tests
(Classificazione al fuoco di prodotti ed elementi da costruzione -
Parte 1: Classificazione sulla base dei dati di prove di reazione al fuoco)

CLASSIFICAZIONE / *Classification*
A2 - s1, d0

La classificazione sopra riportata è valida per la seguente applicazione effettiva:
rivestimento parete e soffitto
Il Laboratorio non è stato coinvolto nell'attività di campionamento.
The above reported classification is valid for the following actual end use:
wall and ceiling lining
The Laboratory has not been involved in sampling activity.

Prato, 04/01/2012
Valid until: 03/01/2017

Il Responsabile Certificazione
The Certification Manager
Dr. Massimo Bartoli

Il Direttore Tecnico
The Technical Director
Dr. Ing. Enzo Eusini

ACCREDIA n° 0699
Le prove sono state eseguite in accordo all'accreditamento EN 17025
Tests have been carried out in accordance to accreditation EN 17025

Questo documento deve essere letto congiuntamente ai Rapporti di Prova, per la descrizione del prodotto e per ogni altra notizia di dettaglio.
Questo documento non costituisce approvazione di tipo né certificazione di prodotto né tantomeno dichiarazione di conformità, che spetta esclusivamente al Produttore / Sponsor.
This document has to be read in conjunction with the Test Reports, for the description of the product and for every other detail. This document does not represent type approval or certification of the product neither declaration of compliance, that is exclusively under the responsibility of the Manufacturer or Sponsor.

Il presente Rapporto di Prova non può essere riprodotto in forma parziale senza l'autorizzazione scritta di questo Laboratorio

A2 - S1 - d0: One of the safest level between the scale from A1 to F

LEGEND:

A2 = fireproof material
S1 = absence of toxic smoke during the combustion
d0 = no burning debris falling down

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DIATHONITE: Application fields

- External thermal insulation
The high thermal conductivity makes this product suitable for exterior insulation both of new and old walls, protecting from heat and cold.

- Correction of thermal bridges
It is possible to apply a higher thickness of product in presence of thermal bridges, both inside and outside.

- Energetic requalification of old buildings
Due to its lightness, versatility of use, high flexibility, Diathonite can be applied directly on existing plasters and on mixed brickwork.

- Dehumidification
Thanks to the presence of diatomeic powders, Diathonite is the only one thermal and dehumidifying plaster.

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DIATHONITE: Application fields

- Acoustic insulation of partition walls
Diathonite system offers a certified choice to the traditional acoustic insulation systems.

- Elimination of acoustic reverberation
Thanks to the presence of microcavities, Diathonite is the best sound-absorbing plaster on the market.

- Impact noise insulation
Diathonite is a lightweight material and it is certified to be used as a floating floor.

- Thermal screed
Thanks to its mechanical resistance and the possibility to stick the tiles directly on the product, Diathonite is an excellent low-thickness system.

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DIATHONITE: Advantages

- **Keeping the exterior surface uniform and leveled**

Diathonite versatility allows to level every wall perfectly, in case of restoration but also in new constructions.

- **Easy insulation of thermal bridges**

Diathonite application assures continuity in the insulation material and the correct thickness for the insulation of thermal bridges.

- **Reduction of application mistakes**

Simple and quick construction system.

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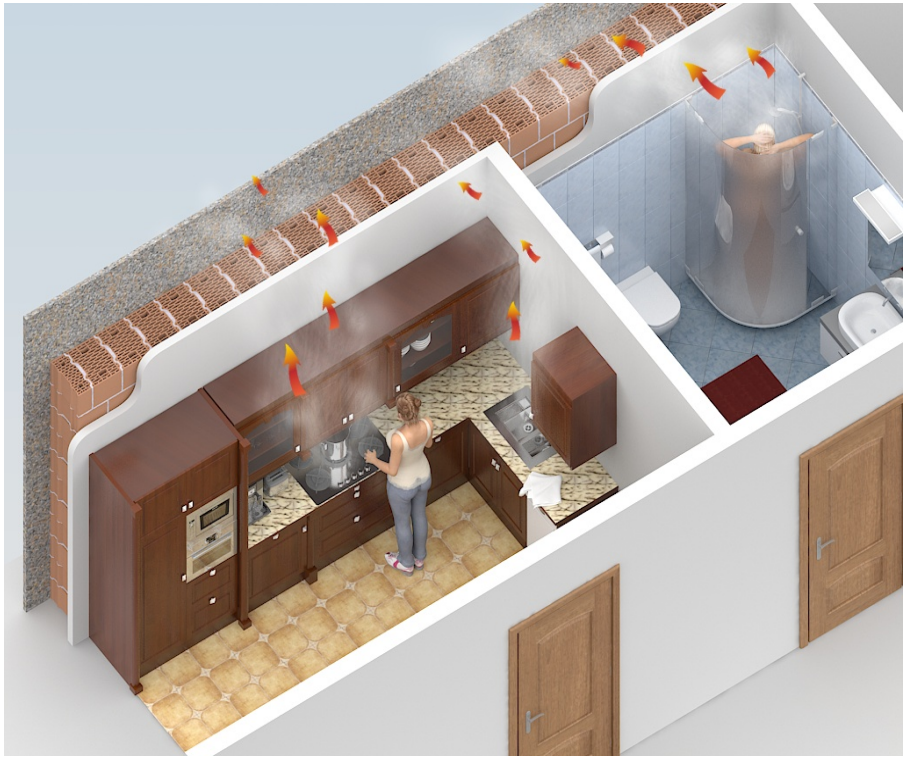
DIATHONITE: Advantages

- It avoids condensation and mould
- Lack of crackings
- Mechanical resistance
- Protection against cold and heat
- It reduces the costs of heating and air-conditioning systems.



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DIATHONITE: APPLICATION FLEXIBILITY

Application methods:

- External application
- Internal application
- Internal and external application

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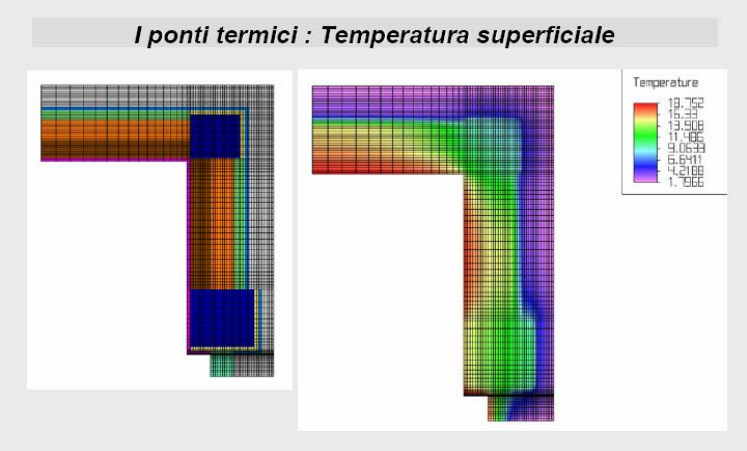
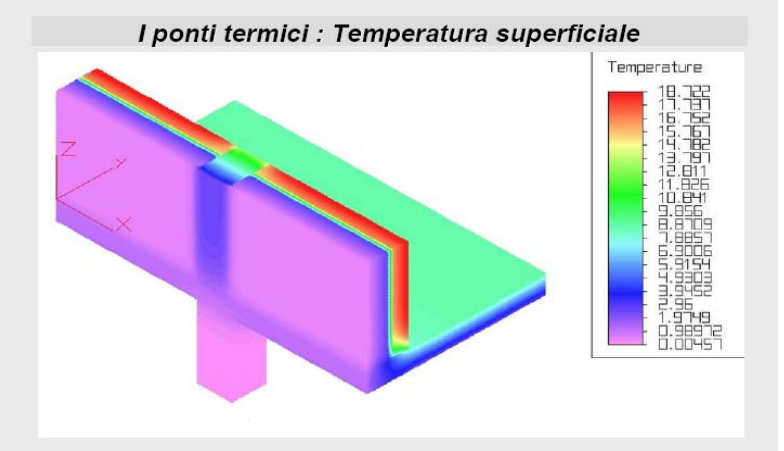
THERMAL BRIDGE





The existence of thermal bridges is one of the biggest problems in modern construction. Their causes are:

Fonte Anit

- The presence of different types of materials in a building
- The lack of homogeneity and the geometrical discontinuity in the structure
- The discontinuity in the layers of thermal insulation

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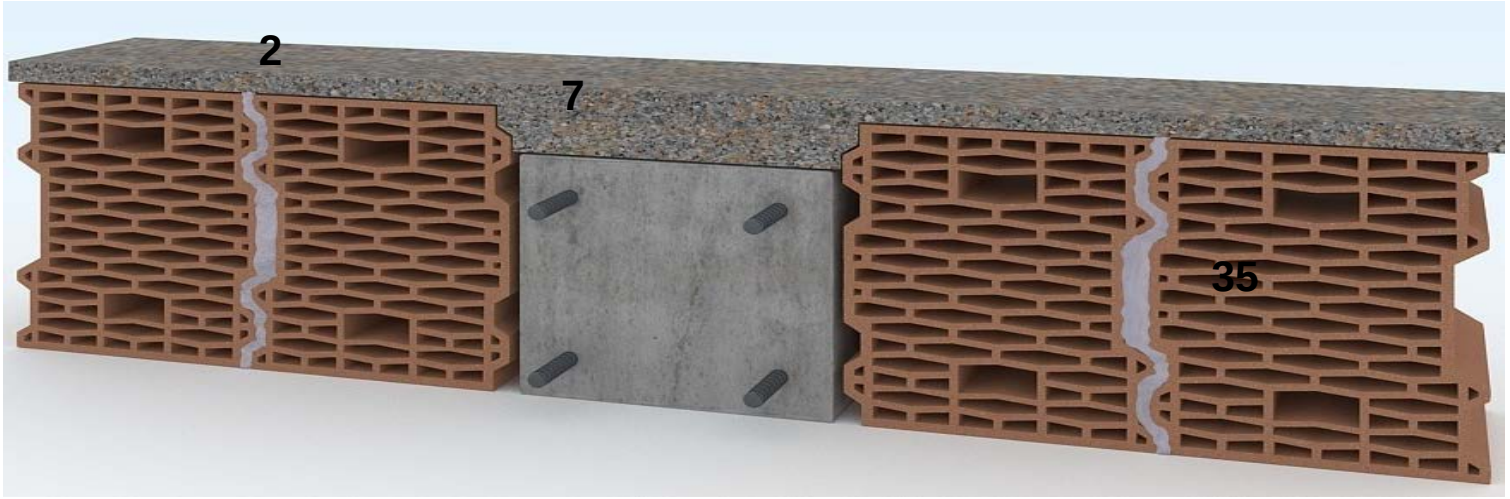
THERMAL BRIDGES - SOLUTION

A wall insulated with Diathonite thermal plaster avoids these problems



The solution with **Diathonite Evolution** consists in providing for a groove between pillar and curtain element (minimum 3 cm) in the designing stage.
This allows to reach the proper insulation needed for thermal correction in pillars and separators, thus preventing any difficult-to-solve building problem during construction.

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AVOIDING THE FORMATION OF CONDENSATION

Avoiding the formation of condensation

Good insulation should guarantee a higher internal comfort avoiding the formation of mould / condensation

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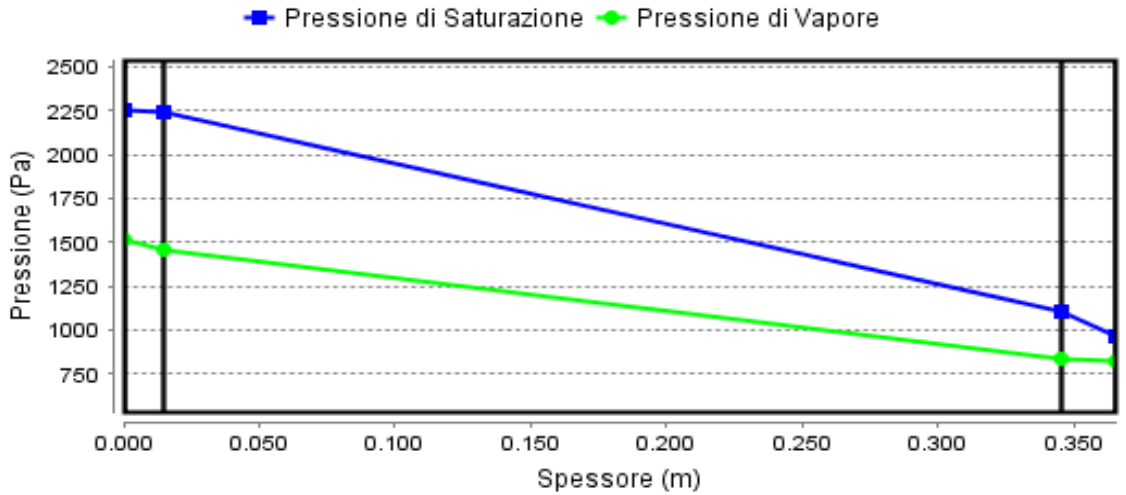
THERMAL-HYGROMETRY:
Glaser analysis



*Thanks to its high hygrometric properties (**breathability μ=4 and capacity of absorbing and releasing vapour 0,35 kg/m² h^{0,5} -**), Diathonite prevents the formation of condensation.*

THE STRUCTURE DOES NOT CAUSE INTERSTITIAL CONDENSATION

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THERMAL-HYGROMETRY:
Diathonite as a hygrometric lung

Diathonite is highly breathable and permeable $\mu = 4$

Diathonite is able to absorb and release water vapour, about 0,35 kg/m^2 h^{0,5}

Porous structure of the material, characterized by the presence of many hollowness.

It can absorb and release very fast water vapour, therefore avoiding the formation of superficial condensation.

Diathonite system as the perfect solution against superficial condensation and mould

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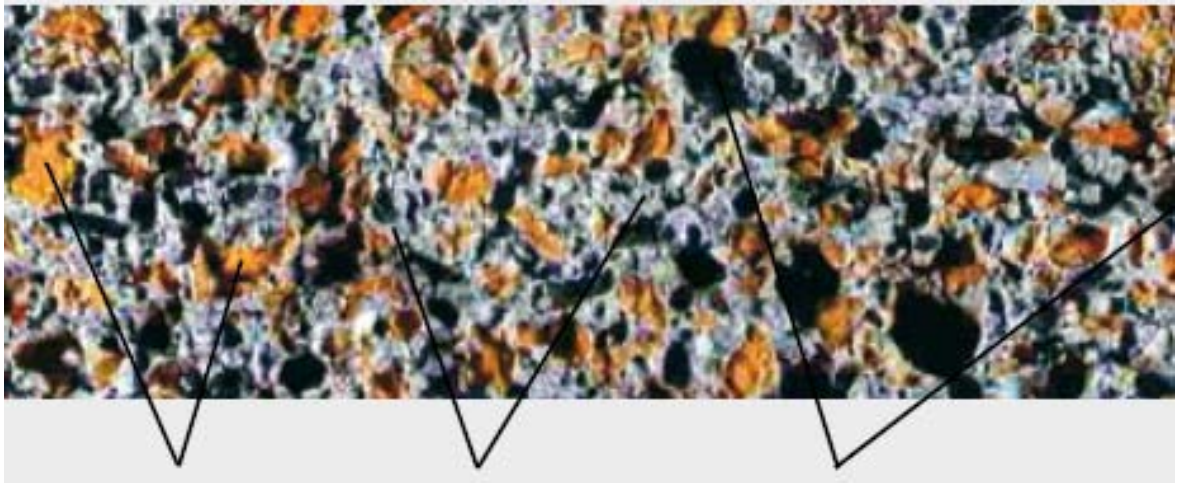
DIATHONITE: Sound absorption

Thanks to its microcavities and hollows, Diathonite can offer a level of sound-absorption that is twice as high as a standard plaster.
It can absorbe sound waves avoiding reverberation, and improving the acoustical quality of buildings.



Cork Clay Cavernous holes

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DIATHONITE: Sound absorption

α = 0,70

(between 500 and 1600 Hz)

Frequenza (Hz)	Coefficiente di Assorbimento acustico (α)
100	0,19
125	0,16
160	0,08
200	0,33
250	0,28
315	0,43
400	0,51
500	0,63
630	0,75
800	0,76
1000	0,74
1250	0,75
1600	0,69
2000	0,66
2500	0,66
3150	0,68
4000	0,71
5000	0,66

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DIATHONITE: PROTECTION FROM HEAT

Protecting from heat

Decreasing the T inside the house is an excellent solution to *have good energy saving in A/C and to obtain an healthy room .*

“Insulation materials based on renewable natural raw materials assure better protection from heat than syntetic products”

Source: Casa Clima Agency

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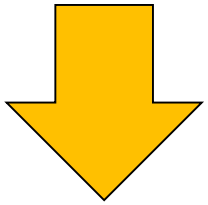
DIATHONITE: PROTECTION FROM HEAT

Features of the insulation materials suitable for protecting from heat:

- High specific density
- High heating accumulation capacity
- Low value of thermal conductivity



Diathonite Evolution is able to contain the external heat wave and then allows considerable energy savings in summer air conditioning.

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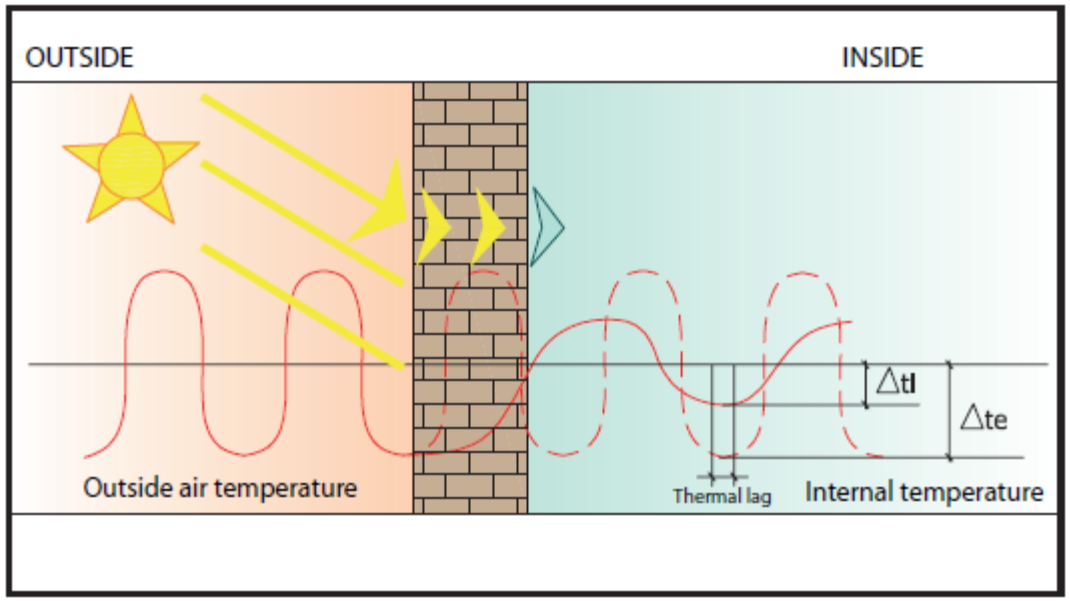
THERMAL LAG AND ATTENUATION

THERMAL LAG: the higher the thermal lag, the higher is the time in which the thermal wave enters through the wall and thus the higher possibility to cool down the wall thanks the night ventilation.

ATTENUATION: is an index of the reduction of the width of the thermal wave. If it is a low value then less part of the thermal energy will reach the internal environment.



The picture shows the effects of thermal lag and attenuation of the thermal wave, guaranteed by a correct insulation from heat of an external wall.

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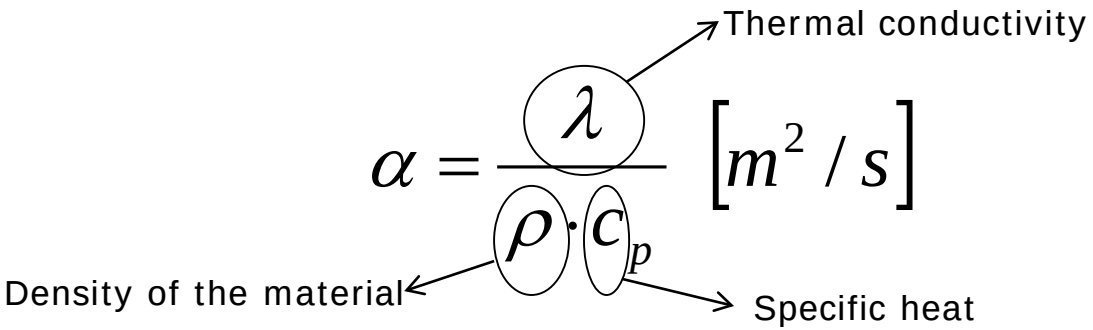
THERMAL DIFFUSIVITY

The global parameter to assess the ability of a material to reduce the thermal summer wave is the **THERMAL DIFFUSIVITY**, which can be represented by the "propagation speed" of the energy in the material.



The low value of thermal diffusivity of Diathonite Evolution improves the behavior of structures during summer.

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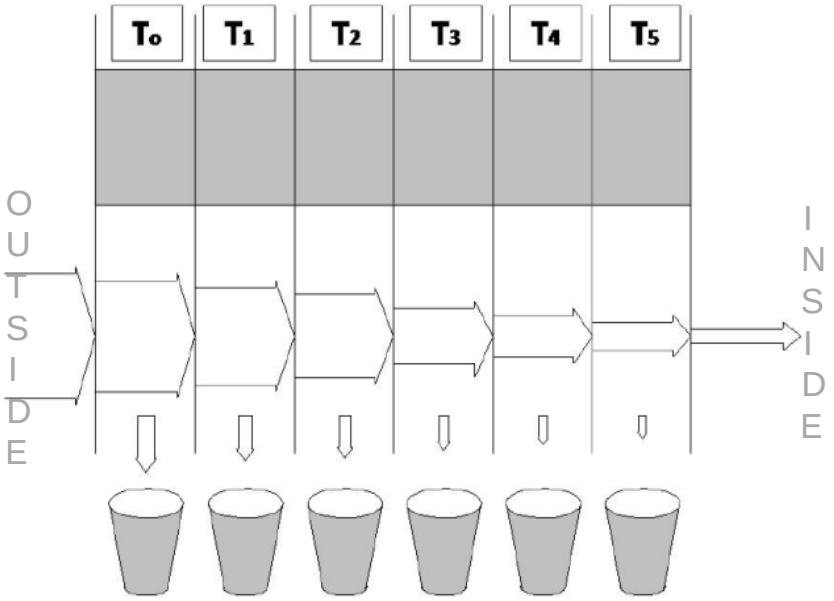
STRUCTURE CHARGING

The charging of the structure depends on:

1. **Thermal conductivity (λ)**
2. **Thermal capacity (C)**
3. **Thermal diffusivity (α)**

1. The *thermal conductivity* (**λ**) acts on the reduction of incoming heat (from outside to T_0)
2. *Thermal capacity* indicates how much heat a material is able to absorb (from T_0 to T_1)
3. *Thermal diffusivity* indicates how fast the thermal wave can enter inside



Thermal capacity of the material

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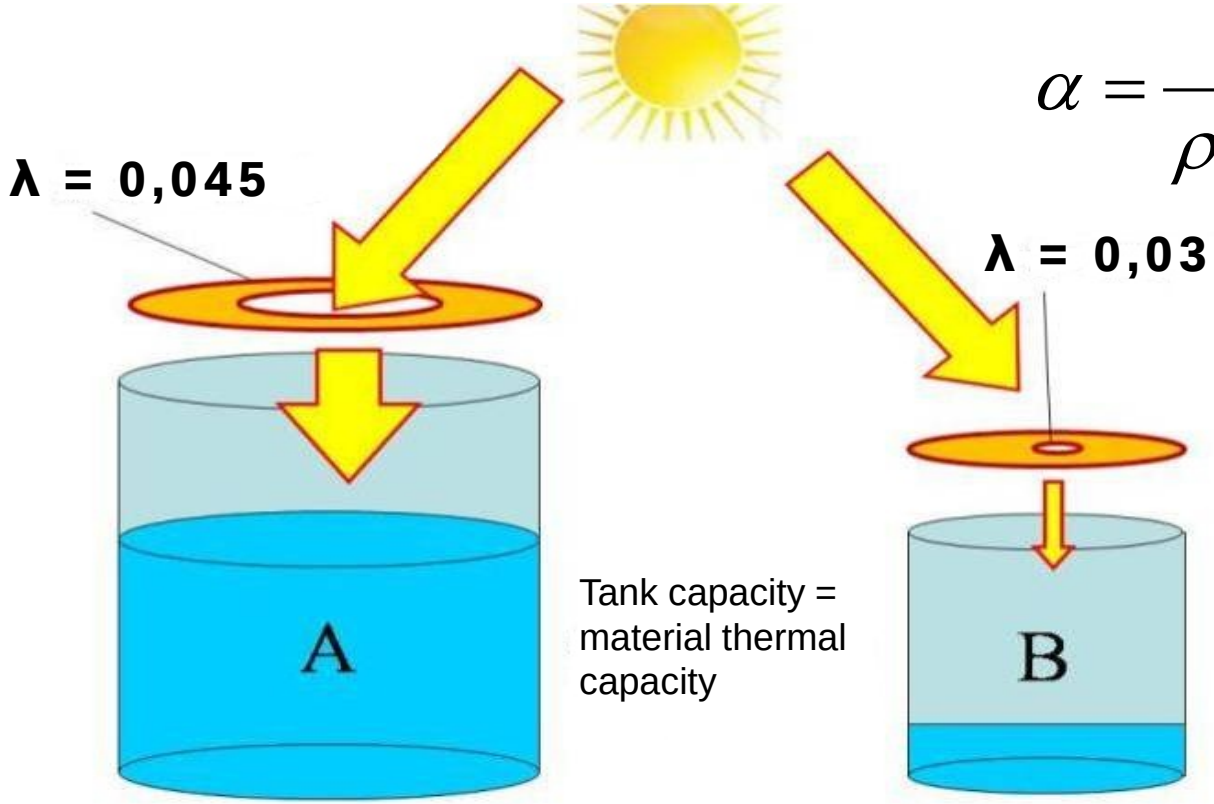
THERMAL DIFFUSIVITY

$$\alpha = \frac{\lambda}{\rho \cdot c_p} \quad [m^2 / s]$$



DIATHONITE EVOLUTION

C = 360 [kJ/Km³]

8 times higher than a panel

EPS PANEL / EIFS system

C = 36,25 [kJ/Km³]

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THERMAL DIFFUSIVITY

	Code	Density ρ [kg/m³]	Specific heat c [J/kgK]	Thermal conductivity λ [W/mK]	Thermal diffusivity α [m²/s]
INSULATING MATERIAL					
Cellular concrete	-	300	1000	0,089	0,30
Wood fibre	WF	150	2000	0,040	0,13
Rockwool	MW	100	1030	0,035	0,34
Fiberglass	MW	80	1030	0,035	0,42
Extruded polystyrene foam	XPS	35	1450	0,035	0,70
Sintered polystyrene foam	EPS	25	1450	0,036	0,99
Polyurethane foam	PUR	43	1400	0,028	0,46
Diathonite Evolution		**360**	**1000**	**0,045**	**0,13**

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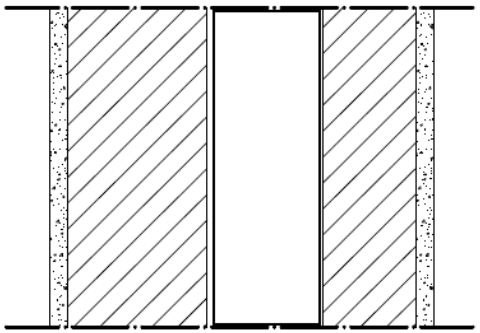
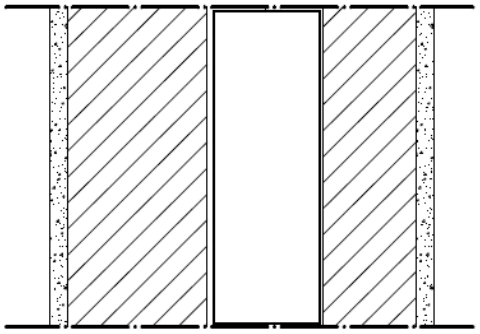
EXAMPLE: APPLICATION OF DIATHONITE OVER A NON INSULATED STRUCTURE



		esistente	Diathonite		
			Ex 8 cm	Int 8 cm	ex+int
U	[W/m^{2}K]	1.02	0.36	0.36	0.36
Y_{ie}	[W/m^{2}K]	0.42	0.04	0.06	0.02
φ	[h]	8h 32’	12h52’	12h46’	13h33’
f_a	[-]	41%	10%	16%	5%
M_s	[kg/m^2]	285	309	309	309
C_{ip}	[kJ/kgK]	50	43	12	14.



		esistente	EPS		
			Ex 6,5 cm	Int 6,5 cm	ex+int 3+3.5
U	[W/m^{2}K]	1.02	0.36	0.36	0.36
Y_{ie}	[W/m^{2}K]	0.42	0.04	0.065	0.02
φ	[h]	8h 32’	10h58’	10h42’	12h20’
f_a	[-]	41%	11%	18%	6%
M_s	[kg/m^2]	287	287	287	287
C_{ip}	[kJ/kgK]	50	43	8	14

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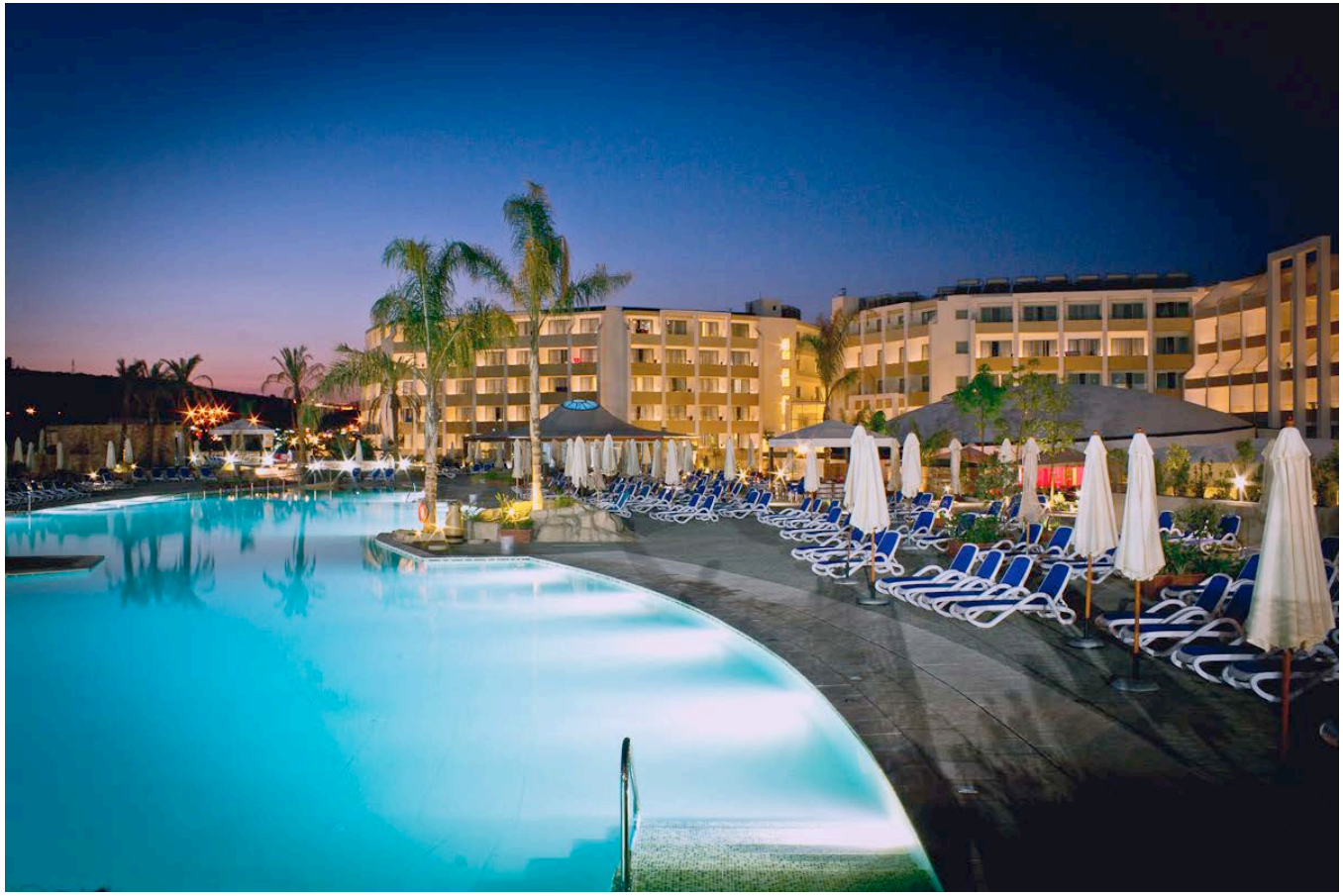

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