

# FAREHAM

BOROUGH COUNCIL

## Minutes of the Licensing Panel

**(to be confirmed at the next meeting)**

**Date:** Tuesday, 28 September 2021

**Venue:** Council Chamber - Civic Offices

**PRESENT:**

Councillor Michael Ford, JP (Chairman)

**Councillors:** Ms S Pankhurst and Mrs S M Walker



**1. LICENSING ACT 2003 - APPLICATION FOR NEW PREMISES LICENCE AT COLDEAST MANSION, COLDEAST DRIVE, SARISBURY GREEN, SO31 7PT**

At the invitation of the Chairman, the Panel was joined by the following persons:

Mr Jason Parker – Applicant and Director of Graphite Property Management  
Mr Daniel Byrne – Director of Graphite Property Management  
Kelly Bedford – Interested Party  
Paul Friedrich – Interested Party

The Panel had before it a report by the Licensing Officer and supplementary information provided by the Applicant and Interested Parties regarding an application for premises licence made by Graphite Property Management in respect of Coldeast Mansion, Coldeast Drive, Sarisbury Green, Southampton SO31 7PT. The report contained the procedure for the hearing and advised members of the Panel of the representations made by Interested Parties. The report and supplementary information were made available in advance of the meeting to Panel Members, the Applicant and all Interested Parties that had made representations. A further supplementary document was tabled at the meeting and is attached to these minutes as Appendix H.

The application was heard in accordance with the Council's agreed Procedure for Hearings by the Licensing Panel and was considered as follows:

- (i) The Applicant confirmed that there was no proposed modification to the application.
- (ii) The Licensing Officer presented a summary of the application and of the representations received.
- (iii) The Applicant was invited to comment on the application.
- (iv) Members of the Panel were invited to ask questions and seek points for clarification on points raised by the Applicant.
- (v) Interested Parties were invited to ask questions and seek points for clarification raised by the Applicant.
- (vi) Interested Parties were invited in turn to make their representations relating to the licensing objectives and were questioned by members of the Panel and the Applicant accordingly.
- (vii) Interested Parties were invited in turn to make a closing statement
- (viii) The Applicant was invited to make a closing statement.

The Licensing Panel then withdrew from the meeting to consider the application in private. On completion of their deliberations, the Panel returned to the meeting, whereupon the Chairman announced the decision of the Panel as follows:

**DECISION OF THE LICENSING PANEL REGARDING THE APPLICATION  
FOR PREMISES LICENCE AT COLDEAST MANSION, COLDEAST DRIVE,  
SARISBURY GREEN, SOUTHAMPTON SO31 7PT**

All parties shall receive written notification of the decision and reasons.

The Panel has considered very carefully the application for a premises licence at Coldeast Mansion.

The Panel has given due regard to the Licensing Act 2003, the Licensing Objectives, statutory guidance and the adopted statement of Licensing Policy. Human Rights legislation has been borne in mind whilst making the decision.

It has paid due regard to all representations and evidence both written and given orally today and attached due weight accordingly in light of all the circumstances.

It was noted that no representation had been received from any responsible authority and that residents' representations generally related to the potential for an increase in public nuisance.

Having heard all the evidence, the Panel has determined to grant the licence as set out in the application. To clarify, this limits the playing of live and or recorded music outside to 11-00 p.m every day. The sale of alcohol will be confined to inside only after 11-00 p.m. every day.

**REASONS**

The Panel was presented with concerns from several residents relating to the potential for nuisance from the proposed licensable activities.

The Panel noted that no responsible authority had raised objection and the Panel is therefore bound to infer that the responsible authorities are satisfied with the application. The Responsible Authorities are deemed to be experts in the respective fields.

The Panel was reminded that the legislation and guidance are clear that there is a presumption of grant of an application unless objections cannot be met by conditions. Additionally, the Panel was reminded that they can only consider factual evidence brought before it and should not consider speculation.

The objections raised were all speculative as to what might occur if the licence was granted. Whilst the panel understands the concerns of residents its hands are tied by the legislation which precludes the consideration of speculation.

The residents should take comfort from the strong powers on review set out in the Licensing Act 2003 and other measures under other legislation which exist to take enforcement action with regards to the premises licence where relevant.

Reviews may be commenced by responsible authorities or residents. In this regard, should issues arise due to the premises not being run in the manner asserted by the Applicant during the hearing there are means of addressing this in future.

The Panel noted that the Applicant was keen to foster good relations with neighbours. To that end Mr Byrne had offered his address and telephone number for complaints indicating that he lived a mere 10 minutes away.

With that in mind the Panel recommends that the Applicant considers meeting regularly with neighbours to maintain good relations and avoid issues arising.

There is a right of appeal to the Magistrates' Court for all parties and formal written notification of the decision will set out that right in full.

(The meeting started at 10.10 am  
and ended at 12.35 pm).

# Minute Item 1

Tabled Item – Points of Clarification from Mr Lawrence Twineham

Dear Ms Mahy

Thank you for your letter dated 14 September regarding a Notice of Hearing. Unfortunately I am away on 28<sup>th</sup> and will not be attending the hearing.

From your letter concerning points requiring clarification, I would like to make the following comments:

1. Yes –
  - a. restrict all outdoor activities from 2100 each day
  - b. restrict all music to be played inside the building
  - c. building to be adequately soundproofed
  - d. windows to be kept closed at all times during events
2. As #1
3. Public nuisance – I experienced on several occasions ‘music’ being played that was monotonous and disturbing in that the ‘music’ continued past 2300 during the period that the previous owners were hosting events.

Regards  
Laurence Twineham  
67 Columbus Drive



**From:** Steve Tarrant >

**Sent:** Wednesday, September 22, 2021 3:52 PM

**To:** Mahy, Sarah <

**Subject:** Re: Coldeast Mansion Licensing Panel

Good afternoon Sarah,

Thank you for sending me the information regarding the hearing for the License at The Coldeast Mansion. I will not be able to attend but would like to put forward a few proposals that we would be in agreement with as a way of moving forward. Contrary to Mr Parker stating in an online post that we are unwilling to engage with them I did offer to meet with Daniel Byrne but was unable to due to having COVID. I did however have a lengthy telephone conversation with him on the 8th September and he was going to speak with me further about some compromises although I have heard nothing further from him.

I have listed below a few things that we would be happy with so there can maybe be a solution to some of our main objections which regard the lateness of the licensing hours.

- 1 Any outside live entertainment to be finished by 19:00 hrs
- 2 Any outside activities including dining & drinking to be finished by 21:00 hrs
- 3 No access outside for hotel guests & guests at functions after 21:00 hrs except for a designated smoking area away from any residential areas
- 4 Recorded and live music not to start outdoors until 11:00 hrs and to be kept to a minimum level so it cannot be heard in residential areas
- 5 Indoor recorded music to be kept to a minimum level
- 6 Indoor live music & DJs to finish by 22:30 hrs, all windows & doors to be kept shut & sound testing to be carried out before the permission is given so the sound does not impact on local residents & wildlife.
- 7 No alcohol to be served indoors after 22:30hrs customers to leave by 23:00 hrs
- 8 New Years Eve to close by 01:00 hrs
- 9 Adequate signage to be put at the Coldeast Way entrance to prevent traffic coming in as there is no access to the mansion from that direction.
- 10 A regular consultation every few months with the immediate local residents to review how things are going and if there are any potential problems.
- 11 No drinks to be taken off premises when leaving.

I hope that these points can be taken and used to find a potential way to go forward as we do not wish to have the place closed down , we just want to safeguard the large investment we have made to move to what is a very quiet area.

Kind regards,

Steve & Lucie Tarrant





**From:** paul.friedrich <  
**Sent:** Tuesday, September 21, 2021 11:28 PM  
**To:** Mahy, Sarah <  
**Subject:** Re: Coldeast Mansion Licensing Panel

Dear Sarah,

Thank you for the attached email

In answer to your questions contained within the same letter, I can confirm -

1. Yes.

2. No music, inside or outside, before midday on any day. No outdoor music on any day after 9pm, and only played at an agreed maximum noise level. No access for patrons to outside areas at the premises after 9pm on any day. No selling of alcohol outside after 9pm on any day. No indoor music after 10.30pm (12.30am NYE) on any day with noise insulation and an agreed maximum noise level in place & all external windows and doors closed after 9pm. No alcohol served after 10.30pm on any day, except New Years eve until 12.30am. I also seek confirmation that the licence excludes any outdoor cinema taking place. Due to the location of the premises, I would ask if signage can be applied to Bridge Road, Sarisbury confirming that vehicle access to the mansion is via Brook Lane.

3. I am confused by the question, as my understanding is that there's no requirement for an interested party to produce a recorded history at a premises to support their representation, and in fact, this is impossible for a new premises, which this is as the premises has not been run in this format before. If I have interpreted this incorrectly, please accept my apologies.

Finally, in my initial communication to yourselves, I raised the question as to whether the applicant had made a false and misleading statement in relation to a licensing application. I have not heard anything further with regards to this, so do I raise this at the hearing?

Indeed, a further statement has been made by the applicants stating '...part of the same planning consent required the mansion be restored and utilised as a hotel with bars and restaurants'.

I cannot find the FBC planning document that requires the mansion to be utilised as noted above. I can find a FBC document confirming that '...the council considers a variety of uses have the potential to facilitate the long term re-use including a hotel, an employment use or residential care facility. The council is not prescriptive in the brief about the preferred future use...'.

I await your guidance and comments in relation to the points raised above.

With thanks & regards,

## Tabled Item – Points of Clarification – Paul & Sarah Friedrich

Paul & Sarah Friedrich.

# THE MANSION

COLDEAST | CIRCA 1765

Dear Committee Members,

We have read and carefully considered the representations submitted to Fareham Borough Council Licencing Officers.

We understand that some neighbours of The Mansion are fearful of change.

We believe that our intended activities and robust management style will ensure that we operate within the confines of the 4 licensing objectives and the Premises Licence conditions.

Our food and beverage and events functions will be catered for by Becketts, a company in common ownership that has operated in Southsea for 5 years. Our Premises licence application was resisted for our 10-11 Bellevue Terrace by some of our Southsea neighbours but in 5 years we have never received a complaint. We have proved ourselves to be considerate neighbours in Southsea. We will prove this again at The Mansion.

The Mansion at Coldeast is a hospitality venue. It is a large (25,000sqft), old building situated on 9 acres of grounds. It is important from an architectural perspective and it is locally listed.

Buildings and grounds of this type require constant maintenance, repair and upkeep. They are hard to heat, cripplingly expensive to insure and period appropriate materials and fixtures/fittings are hard to find and costly.

Planning Permission was granted on 30<sup>th</sup> April 2013 under reference P/12/0299/FP for:-

FULL CONSENT FOR THE ERECTION OF 168 RESIDENTIAL DWELLINGS WITH ASSOCIATED ACCESS, PARKING, LANDSCAPING AND INFRASTRUCTURE; EQUIPPED PLAY SPACE; CHANGE OF USE, **EXTENSION & RESTORATION OF THE MANSION HOUSE FOR USE AS A HOTEL WITH FUNCTION ROOMS & FACILITIES**, ANCILLARY ACCOMMODATION, ASSOCIATED WORKS, LANDSCAPING, PARKING & ACCESS; RESTORATION & REUSE OF EXISTING BROOK LANE GATE LODGE FOR RESIDENTIAL PURPOSES WITH ERECTION OF NEW GARAGE, CURTILAGE & ACCESS; REINSTATE BRICK PIERS & WING WALLS TO BROOK LANE ENTRANCE; USE OF LAND & WOODLAND FOR OPEN SPACE/RECREATION WITH NEW PATHS.

Any local property owner who acquired their property since this date (or in fact well before as the application process was lengthy) would have been made aware of the proposed use of The Mansion as a hospitality venue. It is simply not reasonable to assume or expect that The Mansion should stand vacant and be allowed to fall into disuse and disrepair.

# THE MANSION

COLDEAST | CIRCA 1765

Further to the aforementioned planning permission, The Mansion was restored, to a point, and subsequently traded. It failed largely due to the previous owner's unwillingness to provide adequate funding and support to the management team and staff. COVID-19 restrictions further impacted the viability of the business and it fell into the hands of the Administrators.

Fern Property Ltd has commenced an extensive refurbishment programme that will hopefully be part of the process that will secure the long-term viable future use of this wonderful building together with 40+ local jobs and a superb asset open to the local community and guests/customers from further afield. But, this future can only be assured if we can trade The Mansion in a fair, reasonable and equitable manner. We must be able to compete with our local competitors and we carefully reviewed their operating hours when we submitted our own proposals. In many areas we have sought less, not more.

We have an experienced management team and will always have Personal Licence holders on the premises while operating. We have installed a comprehensive CCTV system.

Most representations refer to the risk of noise complaints from indoor and outdoor live and recorded music. To be clear, our recorded music will simply be background music whether played internally or externally. We will have hotel guests to consider as well as our neighbours. We invited sound analysts to review the sound impact from an amplified music player at over 85db from the centre of our outdoor dining area. The sound could not be heard whatsoever from the boundary with our nearest neighbour at over 125m distance. Please see attached letter. The Mansion is largely surrounded by trees at the rear which also helps.

Part of the future for The Mansion will be hosting events – weddings, birthdays, anniversaries and the like which may enjoy live music. Any live music (mostly DJ's) will be hosted indoors within our event spaces at the rear of the property. Before we host any such events we will replace the roof and take the opportunity to add sound insulation to the flat roof structure. We will replace the existing single glazed skylights with new double-glazed units. We will improve the existing windows and we will add air-conditioning so that windows and doors can be kept closed. Every effort will be made to minimise the noise from events.

We do not promise to operate in silence. That would be impossible. Birdsong in our woods is over 50db. We do however promise to operate with due consideration to our neighbours.

We trust the committee will be able to support our application.

Jason Parker and Daniel Byrne

23.09.21

# THE MANSION

COLDEAST | CIRCA 1765

Dear neighbour,

Fern Property Ltd has recently secured the freehold interest in The Mansion at Coldeast.

As you will be aware, this property has had a chequered history and has stood largely vacant for a number of years during which time the house and the grounds have fallen into disrepair.

Our initial intention was to convert the property into full residential accommodation with 40+ apartments. However, we have been convinced that with a fair wind, substantial financial investment and the support of our neighbours and Fareham Borough Council, we can make this property flourish once again as a hospitality venue.

It is a matter of public record that when Fareham Borough Council permitted residential development in the surrounding grounds, they were insistent that a commercial use should be established for the Mansion to ensure that it could be maintained for future generations. A hospitality venue was the preferred option and in recent years, past owners attempted to achieve this without success.

It is our opinion that The mansion failed because of a combination of poor management (at owner level) and a poorly considered offering being only serviced apartments and a separate events/function facility.

It is clear to us and to our hospitality advisors that The Mansion needs to be a fully functioning venue offering the range of facilities any other country house style property would enjoy. These include: -

Quality accommodation,

A full food and beverage offering,

Functions/events,

Business facilities,

Leisure uses.

We have ambitious plans to fully refurbish the entire property, and, in due course, we hope to introduce a spa, swimming pool, gym and studio rooms.

In the meantime however, with financial and time constraints to be respected, we will soon reopen The mansion with 33 accommodation suites and a wonderful new restaurant – “Becketts at the Mansion”.

As with any food and beverage operation, we need a licence to operate, and we have now submitted a very carefully considered Premises Licence application to Fareham Borough Council. It is normal that any change in the vicinity of residential accommodation, predominantly owned and occupied by families, will cause concern. It is therefore imperative that if The Mansion is to succeed and enjoy the support of the local community (which is highly important to us), we as the owners must strike a fair and balanced attitude in terms of the proposed business activities and the hours during which these will take place.



# THE MANSION

COLDEAST | CIRCA 1765

We must ensure that the future of The Mansion is economically viable and that we can compete on an equal footing with our competitors in the local area.

Our general day to day activities will be the provision of aparthotel accommodation and initially casual daytime dining. In the coming months we look forward to opening our dining rooms during the evening and when we are ready to do so, we will host private functions such as birthdays and weddings. These types of events require entertainment, will involve music and drinking/dancing. The key is for us as a venue to manage these occasions properly, in line with our licence and taking fully into account our neighbours. We anticipate a "carriages at midnight" approach and fully expect that many guests will stay in the accommodation, thereby limiting vehicular movements.

It is very important to understand that we will be running a hotel and a high quality food and beverage function alongside these events. We cannot afford to upset diners or hotel guests and therefore we will keep noise to a minimum. Live music outside of the normal licensing hours will only be operated indoors and in airconditioned rooms to control the escape of noise from the function spaces. These spaces are also being refurbished and we will be upgrading where possible sound insulation.

The Mansion has been a peaceful neighbour to local residents recently but that is because it is empty, and it was deteriorating rapidly with water ingress and dry rot prevalent. Vandalism, arson and attack inevitably occur in vacant buildings, and it is fortunate that this has not already happened and this heritage asset potentially lost. We will save the Mansion, but we need the ability to operate it under reasonable permitted terms.

We ask that you give us the chance to prove ourselves. Our investment is clear for anybody to see. Environmental Health and Fareham Borough Council's Licensing team are there to protect local residents if we fail to meet with our promises to trade in a fair and reasonable manner.

We are open to meeting with residents to discuss any concerns either on a one-to-one basis or with a group.

We ask that you allow us the opportunity to respond to your concerns before you formally object to our proposals.

With thanks

Jason Parker & Daniel Byrne  
Fern Property Ltd

# THE MANSION

COLDEAST | CIRCA 1765

## Our Bio, Our Vision

The Mansion at Coldeast offers 25,000 square foot of Victorian splendour situated within 9 acres of landscaped grounds and woodland perfectly located near the Hamble River.

Arranged as an aparthotel, we have 33 generously proportioned hotel-based apartments offering flexible short or longer term accommodation to leisure and business travellers alike. Most of our apartments have the facilities to allow a self-catering stay. However, guests may instead find themselves drawn towards the very special premium casual dining experience we have on offer.

"Becketts at The Mansion" focuses on providing delicious fresh food in a variety of settings. Indoor dining is accommodated within 3 of the principle rooms of the property which boast high ceilings, period features and wonderful outlooks to the gardens. When the weather permits, customers can breathe in the abundant lavender-scented fresh air on our extensive, tranquil terraced areas. For a truly unique experience, we can offer 6 private dining pods, perfectly located amongst towering specimen trees alongside the Victorian pond. These bookable domed pods offer a wonderfully safe and exclusive environment for families, friends and business colleagues to enjoy all year round covered dining with a view. The former Library will soon offer a high-quality gin bar with comfortable seating in the adjoining Admiral Lounge. The full food and beverage offering is available to both hotel guests and non-residents.

A dedicated business suite will be available to hotel guests and to local businesses, organisations and groups who require access to a private space that is beautifully furnished and offers secure, fast WI-FI and a high-quality display for presentations.

The owners of The Mansion are keen to see the business evolve and are planning to open The Mansion's doors to private functions and events to include weddings, birthday parties, anniversaries and any other occasions requiring a wonderful environment and attentive personalised service.

Please ensure you stay abreast of what The Mansion can offer by following our social media channels, by regularly checking-in to [www.coldeastmansion.co.uk](http://www.coldeastmansion.co.uk) and, most importantly, by coming in to meet the team and experience for yourself our very special and unique venue.

Regards

Jason and Daniel





The Mansion Coldeast  
Coldeast Dr,  
Sarisbury,  
Southampton.  
SO31 7PT

FAO: Mr Jason Parker

Date 23/09/2021

Dear Licensing Committee.

RE: Cold East Mansion,

We have been contacted by our client in reference to the above premises. They have advised that all documents for their application are needed to be submitted by 23<sup>rd</sup> of September. Given our current workload it hasn't been possible to undertake extensive recording or reporting. However, given the information we have we are confident any concerns regarding noise can be mitigated.

On 22<sup>nd</sup> September 2021 Jason Parker, Daniel Byrne and myself carried out sound measurements to determine the propagation of amplified music from the Mansion outdoor dining area.

A Makita site construction music player was set up in the center of the outdoor dining area and music was played at a range of 82-88dB\*. This was louder than anything imagined to be required to provide the intended background music for outdoor diners.

It should be noted that the small loudspeakers in this area will actually be situated within the polycarbonate and aluminum dome structures and on the face of the serving cabin. These latter speakers (x2) face away from the nearest property and sound from these will be diminished considerably by the cabin structure itself.

Sound measurements were taken in a line along a resin bound hard finished pathway with no obstructions running from the music source towards the boundary with the nearest property being 16 Rayleigh Walk situated approximately 125m distance.

***Measurements were taken as follows: -***

***At source 82-88dB  
At 35m range 51-59dB  
At 70m range 47-53dB  
At 100m range 45-56dB (bird sound – could not hear music)***

The boundary is at 125m distance from the aforementioned music source. At this point no music could be heard with the human ear. Ambient background sound sat at a range of 42 – 51dB with bird calls causing the peaks in sound.



Airtight & Noisecheck Ltd  
The Old Laundry  
Bridge Street  
Southwick  
Hampshire  
PO17 6DZ  
Tel: 03450 666966  
[info@airtightnoisecheck.co.uk](mailto:info@airtightnoisecheck.co.uk)



The background/ambient measurements are similar to what we would expect in that location at that time. Whilst the measurements don't include any frequencies or average levels, they do provide us with a 'real time' survey which clearly show the sound levels decreasing over distance.

**Using a point source propagation equation, in single figure terms the noise will decay by -42dB for a source distance of 1m and a receptor distance of 125m in the absence of any further barriers and mitigation.**

Given the proposed speakers are to be within the dome enclosures this is likely to reduce levels further. Whilst outdoor music is often amplified to higher than the 88dB, it is unlikely this would be tolerable at these levels within these enclosures. We understand this are to be 'background speakers' enabling customers to converse at normal speech levels.

Another positive of having a higher number of speakers is less volume is required as all guests are never far from a speaker.

Having worked with the applicant on several different schemes we are confident a robust Management Plan will be in place to reduce the likelihood of complaints. They have asked us to work with them on this when time permits.

Our client has advised it is proposed no music will be played outside after 11PM this again reduces the likelihood of complaint.

If you have any further questions or queries pertaining to the above, please don't hesitate to ask.

Yours Sincerely

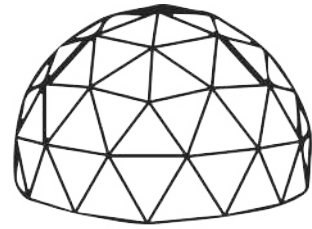
*Mitchell Tett*

Mitchell Tett AMIOA

[mitch@airtightnoisecheck.co.uk](mailto:mitch@airtightnoisecheck.co.uk)



SHOP PODS

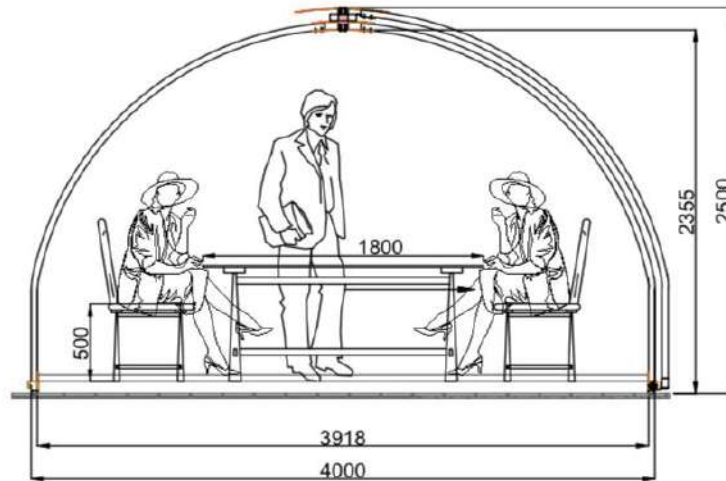


DINING POD

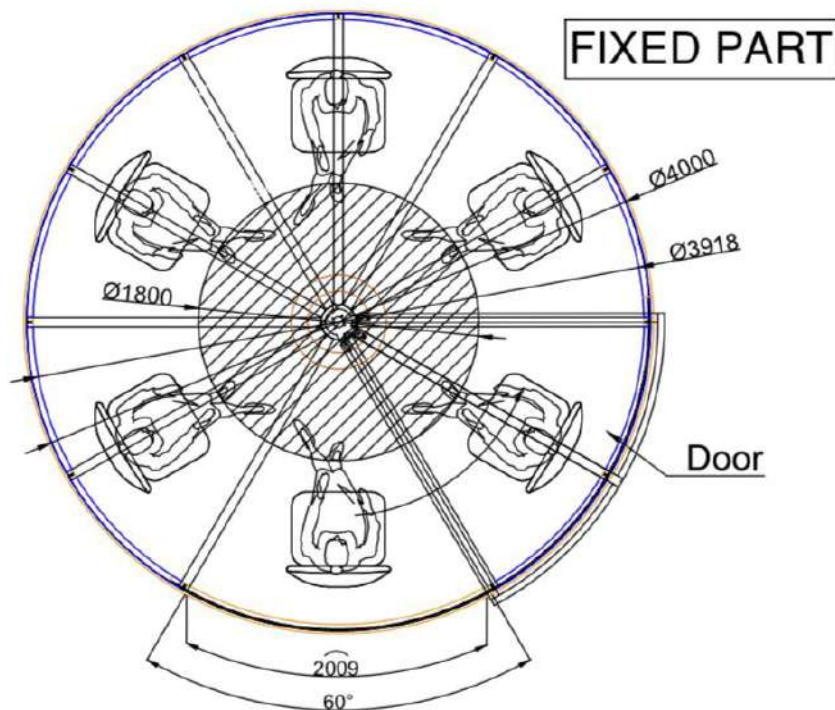


- Our Royal Dome is an Igloo shaped enclosure with a Sliding door on rollers
- The use of A-grade non-corrosive aluminum profiles and stainless steel ensures it is corrosion free.
- The Aluminum profiles are powder coated in multiple colour options with a warranty of 5 years.
- High-grade compact polycarbonate sheets 12 times tougher than toughened glass and UV coated on both sides. Polycarbonate sheets are unbreakable and thus used for safety and durability.
- 4 different variety of Polycarbonate Sheets can be used. A clear polycarbonate can be used for transparency while an embossed polycarbonate is used for privacy.
- Cast nylon rollers are used to slide the doors for its good wear and abrasion resistance. The fasteners used are all high grade Stainless steel, which makes the product minimum to nil maintenance.
- Air vents are provided near the ceiling to allow hot air escape.
- The Royal Dome is designed to withstand heavy wind, rain and snow loads.
- Security is taken care of with lockable doors.
- LED Neon lights can be provided along the profiles to provide lighting inside.
- The sealing of all the segments are done by specially designed high-grade EPDM gaskets. Its excellent sealing properties ensure that the enclosure is 100% leak proof.
- The space inside the Royal Dome can be air conditioned or heated using tower AC or heaters respectively.
- Can be customized with any modifications in design as per requirement.
- Can be fitted onto a level ground base including wood decking.
- Can be installed and disassembled to relocate in three hours flat.
- Ideal ideal for spa, hot tub, private dining space or an exercise room.
- Standard size is 4 meters in Diameter and 2.5m in Height.
- It is the ideal leisure / relaxation room to complement your home, restaurant, hotel or pub.





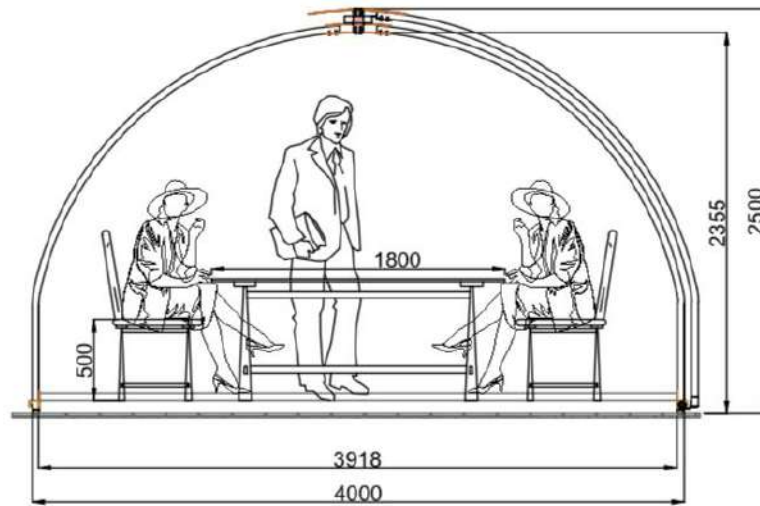
FRONT VIEW



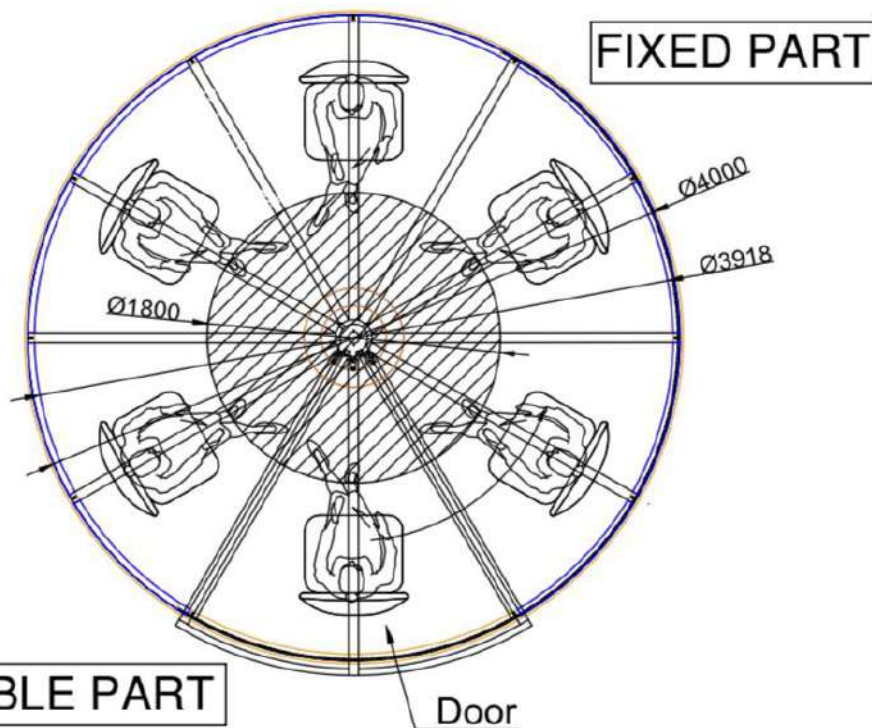
TOP VIEW

## OPENED POSITION

INNER DIAMETER	3918mm
OUTER DIAMETER	4000mm
INNER HEIGHT	2355mm
OUTER HEIGHT	2500mm
POLYCARBONATE SHEET	-



FRONT VIEW



TOP VIEW

## CLOSED POSITION

INNER DIAMETER	3918mm
OUTER DIAMETER	4000mm
INNER HEIGHT	2355mm
OUTER HEIGHT	2500mm
POLYCARBONATE SHEET	-

## **Enclosure Material Details**

The Materials and the technical details of the dome enclosure as listed below .

### **1. Aluminium structural profiles.**

The structure of the Dome enclosure is constructed with A grade Non corrosive Aluminium hollow extruded special profiles of Alloy- EN-AW-6060-T6 and EN-AW-6063-T6 as per BSEN755.

### **2. SS Base Frame.**

The base frame of the dome enclosure is a fabricated component made of Stainless Steel of Grade SS304. The components are laser cut to precision and fabricated with TIG welding. The fabricated base is the support structure for the dome and also the bottom roller guide for the door mechanism .

### **3. Pretreatment and finishing .**

#### **3.1 Surface preparation**

A multistage cleaning and pretreatment system is adopted to remove the organic and inorganic surface soils ,remove residual oxides and apply a Chrome chemical conversion coating to which the organic coatings will firmly adhere . This is done as per ASTM D 1730-09.

#### **3.2 Powder coating**

The prepared Aluminium is powder coated with Type Super Durability powder coat as per standard specifications: Qualicoat Class 2 AAMA 2604. The powder coat is with a warranty of 15years .

### **4. Poly carbonate – Double sided UV protected compact sheets**

3mm Compact Polycarbonate sheets with UV protection on both sides. Sheets resist temperatures of -100 to +120 °C.

	Test Conditions	Typical values(1)	Unit	Standard
<b>PHYSICAL</b>				
Density		1200	kg/m3	ISO 1183-1
Water absorption saturation	water at 23 °C	0.35	%	ISO 62-1
Water absorption equilibrium	23 °C, 50% relative humidity	0.15	%	ISO 62-4
<b>MECHANICAL</b>				
Tensile stress at yield		> 60	MPa	ISO 527-2/1B/50
Elongation at yield		6	%	ISO 527-2/1B/50
Tensile strength		> 60	MPa	ISO 527-2/1B/50
Elongation at break		> 70	%	ISO 527-2/1B/50
Elastic Modulus		2400	MPa	ISO 527-2/1B/1
Limiting flexural stress		approx. 90	MPa	ISO 178
Impact strength	Charpy, unnotched	no break	kJ/m2	ISO 179/1fU
	Charpy, notched	approx. 11	kJ/m2	ISO 179/1eA

	Izod, notched	approx. 10	kJ/m2	ISO 180/1A
	Izod, notched1	approx. 70	kJ/m2	ISO 180/4A
<b>THERMAL</b>				
Vicat softening temperature	Method B50	148	°C	ISO 306
Thermal conductivity		0.2	W/mK	DIN 52612
Coeff. of linear thermal expansion		0.065	mm/m°C	DIN 53752-A
Heat deflection temperature under load	Method A: 1.80 MPa	127	°C	ISO 75-2
	Method B: 0.45 MPa	139	°C	ISO 75-2
<b>ELECTRICAL</b>				
Dielectric strength		35	kV/mm	IEC 60243-1
Volume resistivity		10 <sup>16</sup>	Ohm·cm	IEC 60093
Surface resistivity		10 <sup>14</sup>	Ohm	IEC 6009
Dielectric constant	at 103 Hz	3.1		IEC 60250
	at 106 Hz	3		IEC 60250
Dissipation factor	at 103 Hz	0.0005		IEC 60250
	at 106 Hz	0.009		IEC 60250
Light transmission Typical value		50	%	DIN 5036

Weathering Resistance: Excellent weathering resistance, which guarantees their impact strength even after many years.

## 5. Stainless steel fasteners

High grade Stainless steel SS304 fasteners are used for sustenance against harsh environmental conditions.

## 6. Fabricated Parts

All the fabricated parts of the enclosure are manufactured with Stainless Steel material and Powder coated as per the standards mentioned above .

## 7. EPDM- Ethylene Propylene Diene Monomer Synthetic Rubber Beadings and Gaskets.

The sealing of all the constituents are done by specially designed high grade Ethylene Propylene Diene Monomer beadings and gaskets . Their excellent sealing properties ensure the enclosures 100% leak proof . Their excellent resistance to heat, oxidation, ozone and weather aging due to their stable, saturated polymer backbone structure This ensures 100% water resistant enclosures.

8. One-component polyurethane adhesive sealant as per ASTM C920 is used wherever necessary.

9. Rollers are made of Special Nylon with stainless steel sealed bearings.

## 10. VENTILATING FAN

Make - KAFF

Model - HAUS HS 6

GROSS WEIGHT - 1.06Kgs

DIMENSIONS - 199mm X 174mm

VOLTAGE - 220V - 240V

WATTS - 25

AIR FLOW - 320m<sup>3</sup>/h