

DOMUS CLOUD

Frequency – Vibration – ReBuild

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November 19th *02016



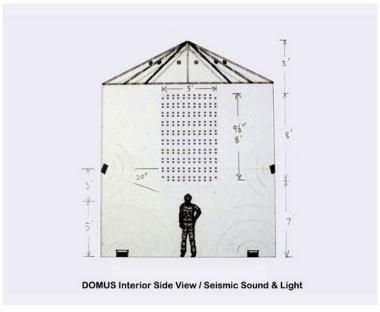
DOMUS CLOUD sound isolation re-build requires extra skin of 18 additional 8'x 4' insulation panels around outer shell of structure creating air-gap between panel skins. Color of outer panels will be silver. Hexagonal acrylic reflective connections and Bi-Filament/UV tape keep these two layers mechanically fixed. DOMUS base-isolation system is designed to absorb 1.7G seismic ground waves. The interior apex of ceiling (Only) requires 1'-2" acoustic foam panels covering 200 sq ft. Internally solid Matt Black in color. The outer DOMUS roof to be painted Hyper-REAL Clouds (if MALIBU) with waterproof seal fix. Up to 32 black ratchet straps tie down structure connecting with base isolated floor. EIGHT X 120lb concrete footings required for earth mounts enhancing seismic and storm wind resilience. Future proofing achieved with permanent hemp-crete and ferrocrete weather resistant render skin.

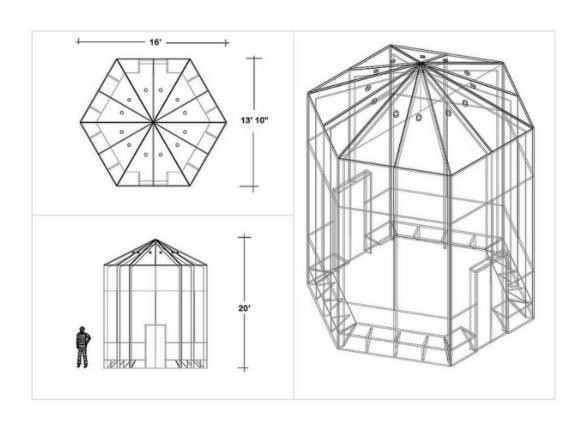
Internally DOMUS contains a 12:4 or 18:4 sound system and audio responsive LED Pixel chandelier consisting of 576 Nodes of RGB Light. Reflective sculptural elements and crystal oscillators will be introduced during period of installation. The DOMUS NIMBUS is a multifunctional experimental space exploring spatial meditation techniques, sound healing experimentation, light therapy integration, data driven musification and invites frequency and vibration based music performance and recordings.

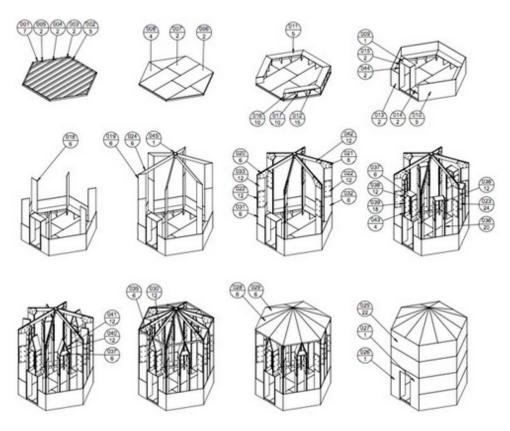
URL REFERENCES

- * **DOMUS M&A** www.domus.urbanction.org
- * Sound Healing https://en.wikipedia.org/wiki/Sound_healing
- * Light Therapy https://en.wikipedia.org/wiki/Light_therapy
- * Crystal Oscillators https://en.wikipedia.org/wiki/Crystal_oscillator
- * Cymatics https://en.wikipedia.org/wiki/Cymatics
- * The Music of Life" Book by Hazrat Inayat Khan https://is.gd/2k9MQZ







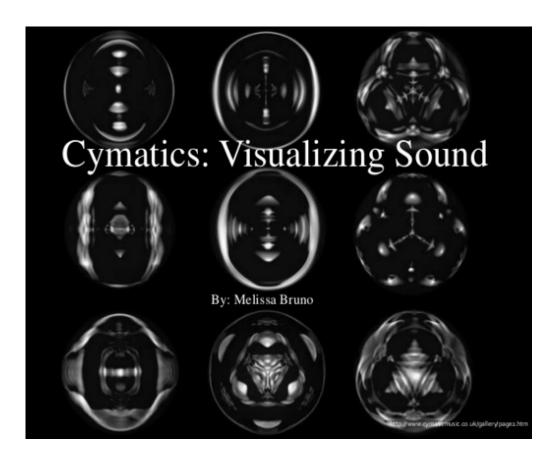




DOMUS, M&A, Silverlake, L.A. C.A. USA. 2014 - 2015

"If we should discover the optimal frequency to which our cells respond - that is, there signature tune -- we would indeed be learning their names. Speaking their language by imprinting upon them the appropriate vibrations, we would enlist their response, opening up new perspectives for the therapy of the future"

--Hazrat Inayat Khan, "THE MUSIC OF LIFE"



Information Visualization

Visualization (OED)

- "the action or fact of visualizing, the power or process of forming a mental picture or vision of something not actually present to the sight"
- "the action or process of rendering visible"

Information Visualization:

 "Visualization provides an interface between two powerful information processing systems—human mind and the modern computer. Visualization is the process of transforming data, information, and knowledge into visual form making use of human's natural visual capabilities. With effective visual interfaces we can interact with large volumes of data rapidly and effectively to discover hidden characteristics, patterns, and trends" (Gershon, Eick, & Card, 1998, p. 9) (my emphasis)

What is "Cymatics"

Field of inquiry -The study of modal phenomena

Greek: $\kappa \tilde{U}_{\mu\alpha}$ (something swollen, or a wave)

Definitions:

- "the structure and dynamics of waves and vibrations" (Jenny, 1967, p. 3)
- "the process of visualizing sound by vibrating a medium" (Grant)

Scientific Origins:

- Traced to da Vinci, Galileo Galilei: Observations of resonance
- Robert Hooke: Sonic vibrations
- Ernst Chladni: "'the father of acoustics," and "Chladni figures"
- Hans Jenny: "father of cymatics" Authored Kymatik, Vol. 1 (1967), Vol. 2(1972)
- John Stuart Reid: acoustics engineer and creator of CymaScope



Cymatics, meaning "wave", is a subset of modal vibrational phenomena. https://en.wikipedia.org/wiki/Cymatics

Videos of Sand Forming Cymatic Patterns on a Metal Plate https://is.gd/bZuWOq

On July 8, 1680, Robert Hooke was able to see the nodal patterns associated with the modes of vibration of glass plates. Hooke ran a bow along the edge of a glass plate covered with flour, and saw the nodal patterns emerge.

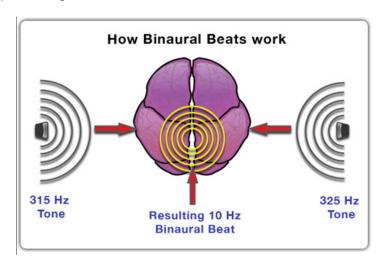
The German musician and physicist Ernst Chladni noticed in the eighteenth century that the modes of vibration of a membrane or a plate can be observed by sprinkling the vibrating surface with a fine dust (e.g., lycopodium powder, flour or fine sand). The powder moves due to the vibration and accumulates progressively in points of the surface corresponding to the sound vibration. The points form a pattern of lines, known as nodal lines of the vibration mode. The normal modes of vibration, and the pattern of nodal lines associated with each of these, are completely determined, for a surface with homogeneous mechanical characteristics, from the geometric shape of the surface and by the way in which the surface is constrained.

Experiments of this kind, similar to those carried out earlier by Galileo Galilei[4] around 1630 and by Robert Hooke in 1680, were later perfected by Chladni, who introduced them systematically in 1787 in his book Entdeckungen über die Theorie des Klanges (Discoveries on the theory of sound). This provided an important contribution to the understanding of acoustic phenomena and the functioning of musical instruments. The figures thus obtained (with the aid of a violin bow that rubbed perpendicularly along the edge of smooth plates covered with fine sand) are still designated by the name of "Chladni figures".

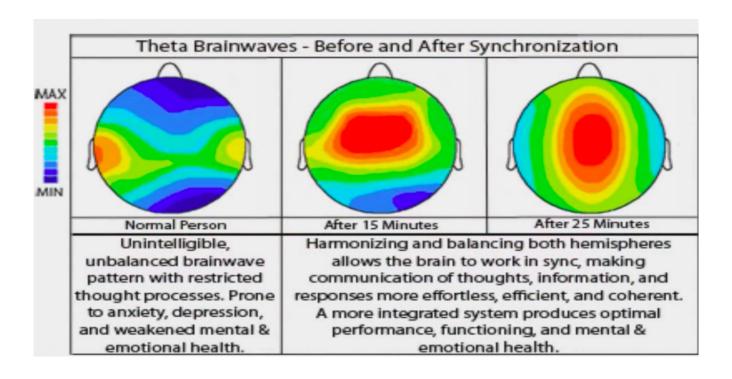


A binaural beat is an auditory illusion perceived when two different pure-tone sine waves, both with frequencies lower than 1500 Hz, with less than a 40 Hz difference between them, are presented to a listener dichotically (one through each ear). For example, if a 530 Hz pure tone is presented to a subject's right ear, while a 520 Hz pure tone is presented to the subject's left ear, the listener will perceive the auditory illusion of a third tone, in addition to the two pure-tones presented to each ear. The third sound is called a binaural beat, and in this example would have a perceived pitch correlating to a frequency of 10 Hz, that being the difference between the 530 Hz and 520 Hz pure tones presented to each ear.

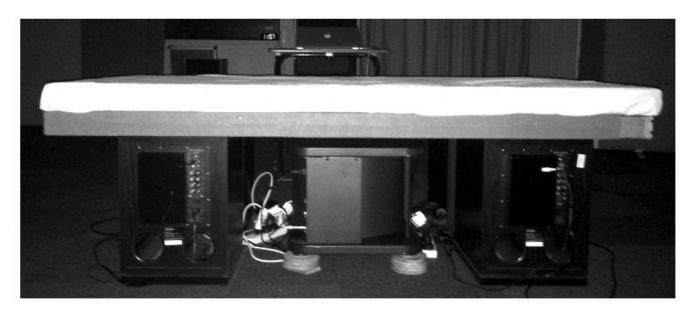
REF: https://en.wikipedia.org/wiki/Binaural_beats



Frequency Range	Name	Associated with		
>40Hz	Gamma Waves	Higher mental activity, increased perception. Alert, Problem solving, fearful states		
13-39Hz	Beta Waves	Active, busy, concentration, aroused, cognition, paranoia		
7-13Hz	Alpha Waves	Relaxation, pre-sleep & pre- wake drowsiness, REM sleep, dreams		
4-7Hz	Theta Waves	Deep meditation/relaxation, NREM sleep		
<4Hz	Delta Waves	Deep dreamless sleep, loss of body awareness		



AUDIO FREQUENCY TABLE(S)



Terramomentum (earth resonance) by Ryan McGee was an immersive, sub-sonic installation driven by seismic audification and musification. A listener lay flat on an acoustic foam table resonated by 5 subwoofers emitting seismic audifications and compositions derived from datasets of 4 major earthquakes: Haiti (2010), Christchurch (2011), Los Angeles (2014), and Anchorage (2016). The installation repeats itself in an 8 minute cycle with each new listener. Seismic events (earthquakes) occur at sub-sonic frequencies below 20Hz. The emphasis of subwoofers vibrating a table allows for a strong haptic connection to the sounds - decreasing the amount of frequency shift necessary to perceive the original data sets.

Seismic Sound Examples: https://soundcloud.com/seismicsounds

Musification of Seismic Data: http://www.lifeorange.com/writing/McGee_ICAD2016.pdf



528Hz | Mira Gestorum (Strange Events)

The color of 528Hz is #Emerald Seagreen and literal English translation of 528 Hz, and has Wavelength of 528 Nm (#Emerald Seagreen) - http://is.gd/gs67bg

528Hz AUDIO REF: https://youtu.be/6xpl00ShS4M

SOLFEGGIO

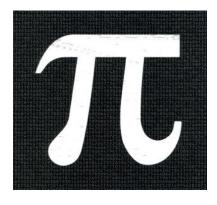
Solfeggio is a music education method used to teach pitch, and sight singing. Guido of Arezzo (991/992 – after 1033) is credited with developing our current techniques for teaching, such as staff notation and the Solfeggio "ut–re–mi–fa–so–la" (do–re–mi–fa–so–la) mnemonic, popularized in modern times by The Kodály Method taught in schools. The 6 note ascending scale's names were taken from the first verse of the Latin hymn Ut queant laxis (To Be Loosened,) where the syllables fall on their corresponding scale degree:

396 Hz | Ut (Do) queant lax s, http://is.gd/xNz3io
417 Hz | Reson re f br s, http://is.gd/FL3TTn
528 Hz | M ra gestõrum : Miracle Transformation
639 Hz | Famul tuõrum, http://is.gd/XecCSk
741 Hz | Solve poll t http://is.gd/nDLpEl
852 Hz | Labi re tum http://is.gd/hhDNn2

The words of the hymn were written by Paulus Diaconus in the 8th century. Paraphrased:" Do let our voices, Resonate most purely, Miracles telling, Far greater than many; So let out tongues be, Lavish in your praises."

The M ra gestõrum (528 Hz) is apparently? the exact frequency that genetic biochemists used to restore broken DNA (basic light/ sound waves.) Claimed by Biochemist Dr. Lee Lorenzen (BA in Biology from the University of California at Berkeley, UCI School of Medicine, Research Associate in the Department of Pharmacology, Biology at Cal State Fullerton, Metropolitan Collegiate Institute,) who's been awarded two US Patents on Clustered Water™ technology. He and biochemist Steve Chemiski discovered that "6 Sided Water Clusters" vibrating at 528 Hz form the supportive matrix of healthy DNA.

The structure of DNA reflects Marko Rodin's "Infinity Pattern" & features Solfeggio numbers. Ancient Pi was 3.142857 (= Prism, = Infinite Refraction.)



Commonly Approximated as 3.14159 is the rational scientific number https://en.wikipedia.org/wiki/Pi

528 cycles Up & Right, while 741 cycles in the opposite direction Down & Left. This is consistent with the "Devil's Interval" designated in musicology as the dissonant combination of these two specific tones. Instruments can be tuned to A444(.09 or +16 cents) to play Solfeggio, with 528 Hz as Middle C.

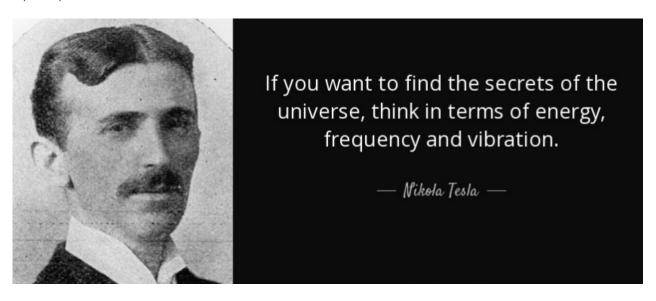
Solfeggio also appears in Douglas G. Preston's Toroidal Scale:

REF: https://youtu.be/PJga10NHhKE

753	861	942	714	825	936	726	834	915
429	537	618	471	582	693	483	591	672
186	294	375	147	258	369	159	267	348
798	879	987	7	8	9	789	897	978
465	546	654	4	5	6	456	564	645
132	213	321	1	2	3	123	231	312
762	843	951	741	852	963	735	816	924
438	519	627	417	528	639	492	573	681
195	276	384	174	285	396	168	249	357

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861 942 714 825 936 726 834
753
                                   915
429
     537 618
             471
                 582 693 483 591
                                    672
    294 375
                 258
                      369
                          159 267
186
             147
                                   348
798 879
        987
              7
                    8
                         9
                             789 897 978
        654
                    5
                             456 564 645
465 546
              4
                         6
                    2
                         3
132 213
        321
              1
                             123 231 312
                 852
762 843
                      963
                          735 816 924
        951
             |741
438 519
        627
             417
                 528
                      639
                           492 573
                                    681
195 276 384
             174
                 285 396
                           168 249
                                    357
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Nicola Tesla tells us, "If you only knew the magnificence of the 3, 6 and 9, then you would have a key to the universe." Additional 3 frequencies (174, 285, & 963) are added to the original 6, "completing the perfect cycle of sound," the 3rd, 6th, and 9th frequencies become 396, 639, 963.



Pythagoras told us to reduce every number to 1 digit (i.e. 15 = 1+5 = 6.) We find the root vibrational numbers of Solfeggio frequencies are alternating 3's, 6's, & 9's.

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Hz | Root# | Nm | A444(.09) Music Note
   174 | 3 | Ultraviolet Invisible | F
   285 | 6 | Ultraviolet Invisible | D
  396 | 9 | Ultraviolet Visible | G
                                      DO
   417 | 3 | Magenta Visible | G#
                                      RE
     528 | 6 | Green Visible | C
                                    MI
     639 | 9 | Red Visible | E
                                    FA
   741 | 3 | Infrared Visible | F#
                                     SO
   852 | 6 | Infrared Invisible | A
     963 | 9 | Infrared Invisible | B
                  1074 ...
```

Ut - 396 Hz - turning grief into joy, liberating guilt and fear Re - 417 Hz - undoing situations and facilitating change Mi - 528 Hz - transformation and miracles (DNA repair) Fa - 639 Hz - reconnecting and balancing relationships Sol - 741 Hz - solving problems, expressions/solutions La - 852 Hz - awakening intuition, returning to spiritual order

FREQUENCY VIBRATION REFERENCES

Sound Healing

http://www.soundhealingcenter.com/

The Sufi Message of Hazrat Inayat Khan

https://wahiduddin.net/mv2/II/II 0.htm

Understanding Frequencies:

http://blog.sonicbids.com/understanding-frequencies-how-to-describe-what-youre-hearing-to-your-sound-tech

Boost Your Mind, Spirit And Body With Healing Frequencies

https://attunedvibrations.com/

432hz Music

https://soundcloud.com/groups/432-hz-music

Amazing Resonance Experiment!

https://youtu.be/wvJAgrUBF4w

Chladni Patterns

https://en.wikipedia.org/wiki/Ernst Chladni

CYMASCOPE

http://www.cymascope.com/

Ocean Noise Generator

https://mynoise.net/NoiseMachines/oceanNoiseGenerator.php

Sound Machine Reviews

http://www.toptenreviews.com/electronics/family/best-sound-machines/

Vibrational Healing - Nerve, Cell & DNA Regeneration - Pure Tone Binaural Beats https://www.youtube.com/watch?v=kWwVLFD3cig

Is there any proof that 528 Hz repairs DNA?

https://www.guora.com/ls-there-any-proof-that-528-Hz-repairs-DNA

Mi Frequency 528 Hertz

https://sites.google.com/site/myfarmingsecrets/Harmonics

Vibrational Healing - Nerve, Cell & DNA Regeneration - Pure Tone Binaural Beats https://youtu.be/kWwVLFD3cig

Forgotten In Time: The Ancient Solfeggio Frequencies

http://www.redicecreations.com/specialreports/2006/01jan/solfeggio.html

Solfège

https://en.wikipedia.org/wiki/Solf%C3%A8ge

Guido of Arezzo

https://en.wikipedia.org/wiki/Guido of Arezzo

"ut-re-mi-fa-so-la" (do-re-mi-fa-so-la)

The Sound of Music - Rodgers and Hammerstein (1965)

https://youtu.be/pLm07s8fnzM

GUIDO Music Notation

https://en.wikipedia.org/wiki/GUIDO_music_notation

Why GeoPhysics Depends on 528 Frequency Dynamics

http://www.528revolution.com/528-mathematics-and-geophysics/

The Solfeggio Frequencies

https://www.smartlivingnetwork.com/nerdery/b/resonate-the-solfeggio-frequencies/

Douglas G. Preston Toroidal Scale | 174 - 963 (Hz)

https://youtu.be/PJga1ONHhKE

Inner Worlds Outer Worlds - documentary by Daniel Schmidt

http://www.innerworldsmovie.com/ - 4 part movie

Inner Worlds, Outer Worlds (2012) - with Turkish subtitles

https://youtu.be/PnHL Qu16mk

"Middle Way and Golden Mean"

The 6 Tones Of Creation Healing Frequencies

https://youtu.be/lepFcyLjbUc

Solfeggio Frequency Meditation - All 9 Tones

https://youtu.be/zgaFe8sTo98

Frequency: The Secrets & Science of Sound (2014)

https://youtu.be/h9TtsJ33kCA

Frequency & The Law of Vibration

https://youtu.be/XEX2-m8EabU

174 Hz - Foundation

https://youtu.be/9JZiNdPNu3I

Sounds of Seismic

www.sos.allshookup.org

HAITI Chandelier Video

https://youtu.be/0kd04jRcshY

IEI - Inner Earth Interpreter

https://i-e-i.wikispaces.com/

SeismicSounds

https://soundcloud.com/seismicsounds

Lebbeus Woods;

1999 Terrain - http://www.lebbeuswoods.net/EARTHQUAKEtext.pdf 2000 Horizon Houses - http://www.lebbeuswoods.net/EARTHQUAKEtext.pdf

Ferrocement

http://en.wikipedia.org/wiki/Ferrocement http://ferrocement.com/

Buddy Rhodes - Ferrocrete Techniques

http://www.youtube.com/watch?v=weyT0Ht6SOM

Mortar Spraying

http://www.youtube.com/watch?v=gcHc-o1O4eQ&feature=related

Marshalltown Hopper Guns

http://www.marshalltown.com/

Open Source Ferrocement Hexayurt

http://www.jovoto.com/projects/300house/ideas/12712%20

Mortar Sprayer Oregon

http://www.mortarsprayer.com/

Rebuilding Haiti - Stucco

https://www.youtube.com/watch?

v=JVh2USFdUwA&list=UU8Vkfj2L63cVV5qrPnIV0Cg&index=6

Splatter Gun

http://www.youtube.com/watch?v=WTlaMftnWSU

Spider Lath Instead of Chicken Wire (LATH)

http://spiderlath.com/advantage.html

Furring Metal Lath (for Stucco to stick to)

Permalath (BASF)

www.permalath.basf.com/

About Ferrocrete

http://www.ferrotechnologies.in/about-ferrocement.php

Stucco: Sand, Portland Cement, Lime and Water

http://en.wikipedia.org/wiki/Stucco

Dylan Toymaker Hexayurt Models

http://dylantoymaker.net/toybox/2010/10/20/hexayurt/

Hempcrete

https://en.wikipedia.org/wiki/Hempcrete

Hemplogic - Using Hemp in Construction

http://hemplogic.blogspot.com.au/2016/02/using-hemp-in-construction.html

Hemp Mortars - Recipe

http://cms.esi.info/Media/documents/StAst_hempmortars_ML.pdf

Building with Hemp/Lime FAQ's

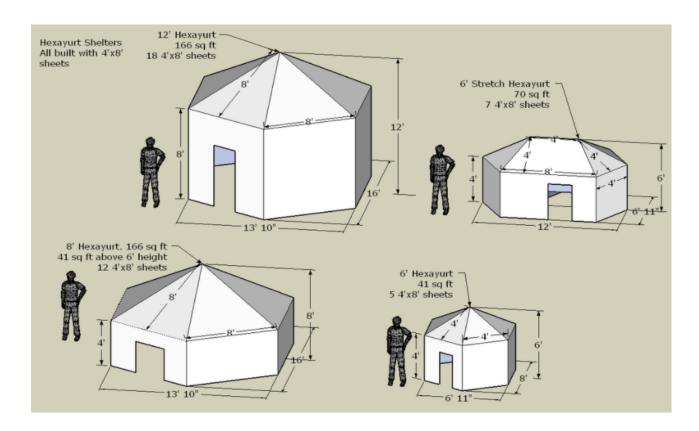
http://www.hemp-technologies.com/page79/page79.html

Hempcrete FAQ (AUS)

http://www.hempcrete.com.au/index.php? option=com_content&view=article&id=23&Itemid=24

3D Printing Hempcrete

http://climatecolab.org/plans/-/plans/contests/2015/buildings/c/proposal/1305704



Hexayurt

https://en.wikipedia.org/wiki/Hexayurt

The Hexayurt Project: Free Hardware housing for the world http://hexayurt.com/

The Hexayurt - Concept, Design and Construction

http://files.howtolivewiki.com/hexayurt.com/MaketheHexayurtv071202.pdf

ADDITIONAL MATERIAL SOURCES

INSULATION Panels

Tony McClanahan Cell: 818.468.7785 Office: 818.558.5717 tony@foamsalesandmarketing.com Foam Sales and Marketing (sells DOW) 1005 West Isabel Street Burbank, California 91506

TAPE

Anson Christiansen anson@tapejungle.com +1 (877) 284-4781 +1 (305) 231-8273 orders@tapejungle.com

RATCHET STRAPS

(BLACK)

http://www.shipperssupplies.com/EndlessLoopStraps/2EndlessRatchetStrapwBlackRatchet/http://www.shipperssupplies.com/RatchetTieDownStraps/2HeavyDutyRatchetStrapwithLoops/http://www.shipperssupplies.com/RatchetTieDownStraps/2RatchetStrapwithJHooksandDRings/

MATERIALS LIFTER

Quality Equipment Rentals
http://www.qerentals.com/contact.php
Material Lift Genie 24' - \$195 p/w
Inglewood - 15 Miles from Silverlake
http://www.qerentals.com/productDetails.php?id=19874

Current DOMUS Storage

Big Art Labs 1641 Naud St, 90012 dandasmann@gmail.com