

GEMKHANA 2022

COMPETITION SCHEDULE AND CONDITIONS

# GEMKHANA 2022 – COMPETITION SCHEDULE AND CONDITIONS GENERAL CONDITIONS

1. This is a Level 3 Competition and will be judged in accordance with the rules and definitions of the ***Competitor & Judging Manual for Lapidary and Allied Competitions Issue no. 8 April 2015.*** (referred to in this Schedule as the Manual), unless otherwise stated in this Schedule.
2. All competitors are advised to familiarise themselves with all the “Conditions for Competitors” in the Manual (particularly pages 5 to 13)
3. Competitors should be aware of, or check their eligibility to enter a Novice or Intermediate Division either by: -
	* Reading Section B4 of the manual (pages 6 & 7) relating to Competition Divisions, or by
	* checking the updated results list on the AFLACA website ([http://aflaca.org.au](http://aflaca.org.au/))
4. Enquiries, correspondence and ALL POSTAL ENTRIES relating to this Competition should be directed to:

#### GEMKHANA Competition Committee 2022

**P.O. Box 109 Gymea NSW 2227**

**Phone enquiries to Colin Wright: 0418 286 003**

1. Maximum number of entries allowed is two (2) per person per section except for Showcase Sections where only one entry per person is allowed.
2. It is the Competitor’s responsibility to ensure that their entries are entered in the correct section and that the sections are correctly marked on the Entry Form. If in doubt ring the Competition Committee.

However, the Competition Committee may transfer an entry into another section if they are of the opinion that it has obviously been enter in the incorrect section.

1. Entry Fees: - $1.00 per entry for the first 10 entries, thereafter free. (Payable by cheque or money order to Gem & Lapidary Council of NSW Inc)
2. All entries not being collected in person at the GEMKHANA must be accompanied by the **cost of return** post or **pre-paid post bag** included with the entry form (see Page 13).
3. While every care will be taken, the GEMKHANA 2022 Committee will not accept any responsibility for the loss or damage of any entries or exhibits that may occur in transit or whilst in the possession of the GEMKHANA 2022 committee.
4. Competitors and exhibitors are responsible for the insurance of their entries or exhibits while in transit, and whilst in the possession of the GEMKHANA 2022 Committee.

#### How to enter the Competition – Sections 1 to 4, 8 to 13 and 18 to 26

1. Package up your entries to cushion them from damage whilst in transit – also see SC3.
2. Fill out an official entry form – see page 13 of this Schedule.
3. If you want acknowledgement of receipt of your entries, include a stamped, self- addressed envelope.
4. Organise a cheque or money order payable to the Gem & Lapidary Council of NSW Inc for the entry fees (and return express postage if you are not collecting the entries in person at the Gemkhana.
5. Submit your Entries + Entry Form + All fees to the Competition Committee. This can either be: -
	* By Express post to

#### GEMKHANA 2022 Committee

**P.O. Box 109 Gymea NSW 2227**

**They must be received by Friday 19th August 2022**

* + By hand delivery to

#### Port Hacking Lapidary Club Rear 39 Gymea Bay Rd., Gymea

**Between 8.00 am and noon on Saturday 20th August 2022**

NOTE that late entries will not be eligible for competition and will be returned.

#### How to Enter the Competition – Sections 5, 16, 17, 29, 32, 34 and showcases

1. Send your Entry Form and All Entry Fees to **arrive by Friday 19th August 2022** to:-

#### GEMKHANA 2022 Competition Committee

**P.O. Box 109 Gymea NSW 2227**

1. Hand deliver the entries to the Competition committee in the Competition Hall at the

#### GEMKHANA 2022 VENUE between 1pm and 5pm on Friday 23rd September 2022

1. Note that entries in Sections 29, 32 & 34 must be set up and ready in the Exhibition Hall by **5.00pm Friday 23rd September 2022**

#### Judging, Judging Sheets and Entry Pickup

1. Entries in Sections 1 to 4, 8 to 13, 18 to 26 will be judged prior to the GEMKHANA.
2. Entries in Sections 5, 16, 17, 29, 32, and 34 will be judged at the GEMKHANA.
3. Judging Sheets may be collected from the Competition Office between 10am and 12 noon on **Sunday 25th September 2022**
4. Entries may be collected between 6pm and 7pm on **Sunday 2nd September 2022**
5. Entries not collected will be returned to the competitor in the manner specified on the entry form together with the applicable judging sheets.

#  SPECIAL CONDITIONS (SC)

#### SCI – Sizes and Tolerances

Where an entry does not conform to the size conditions in this Schedule or the Manual it will be ruled ineligible and not judged. Refer to section definitions in the Schedule and the Manual for allowable tolerances.

#### SC2 – Carving (Section 5)

Each entry must have a label which best describes the exhibit for the viewer’s interest including the material used. These labels will not be judged.

#### SC3 - Facet Entries (Section 8 to 11)

* 1. All chosen designs have either been previously used in competitions or have been successfully test cut using instructions given
	2. **ALL** Facets are **FLAT**, any entry with Concave or Curved facets (except Section 8A continuous girdle) will be disqualified and will NOT be judged.
	3. **Minimum size** is 6mm measured across shortest axis of outline shape at the girdle, or as indicated on design sheet.
	4. Each faceted stone must be entered in a display box and this box must contain a label which contains only the following details:
		+ Section Number
		+ Material used
		+ Colour of material
		+ Size

#### SC4 – Tumbled Stones (Section 12A)

Please read page 19 (D2.2) and page 55 (D12.1) of the Manual for definition of this section.

#### SC5 – Jewellery (Sections 18 – 26)

Competitors should carefully read Part E of the Manual in relation to all Jewellery Sections.

# TROPHIES AND MEDALLIONS

1. Medallions and prize cards will be awarded for 1st, 2nd, and 3rd placed entries. Highly Commended will receive a prize card only.
2. At the Committee’s discretion, where there are insufficient entries in a Novice or Intermediate Sections, a Special Award May be nominated and such an award will not exclude a competitor from entering the same section in future competitions.
3. To be eligible in winning a ‘Dick Moppett Trophy: in faceting, entries must achieve a minimum of 70 points for Novice and 90 points for Open.
4. Annual Trophies may be awarded in the following categories: -

**SPECIAL ONE-OFF TROPHIES**

**Donated by Gem & Lapidary Council of NSW**

## Section N-1A.3 Novice Standard Cabochon -C/S-Highest Score Section O-13.1 Open Polished Face-Flat Surface-Highest Score Section N-19A.2 Novice Cast Jewellery not intended to include

Lapidary, Fossil or Mineral Item/s-Highest Score

**THE JOAN BALL TROPHIES**

Section O-26B.1 Open Enamelled Jewellery without Mount

-Highest Score

Section O-17.1 Open Novelty Gemcraft-Highest Score

**THE ALAN COULTON TROPHY**

Section O-20A.1 Open Cast Jewellery using Natural Objects as Patterns

-Highest Score

1. Perpetual Trophies may be awarded for the following :-

***THE BORIS NOVIC TROPHY***

**Section 0-2A.1** The competitor with the highest score in Section O-2A.1 Double Standard Cabochon – C/S

# THE DICK MOPPETT TROPHY – NOVICE

**Sections N-8B.3 & N-9A.3** For the Novice competitor with the highest aggregate point for two (2) faceted stones - one shall be ***STANDARD BRILLIANT*** and the other a ***STANDARD STEP CUT***. Note that each entry must achieve a minimum standard of **70 points.**

# THE DICK MOPPETT TROPHY – OPEN

**Sections O-8B.1 & O-9A.1** For the Open Competitor with the highest aggregate points for two (2) faceted stones – one shall be ***STANDARD BRILLIANT*** and the other a ***STANDARD STEP CUT***. Note that each entry must achieve a minimum standard of **90 points.**

**THE ARTHUR ROFFEY TROPHY for *“BEST MINERAL IN SHOW***”

(As selected by the donor)

**THE FRANK LANDER TROPHY** for ***MOST SUCCESSFUL COMPETITOR***

Points are awarded as:- 1st place – 6 points 2nd place – 4 points 3rd place – 2 points . Highly Commended = 1 point. Special Award – 6 points

**THE FRANK HALL TROPHY for MOST SUCCESSFUL CLUB**

Points awarded as:- 1st place – 6 points, 2nd place – 4 points, 3rd place – 2 points.

Highly commended – 1-point, Special award – 6 points. Entries within75% of the winning entry’s score – 1 point.

**GEMKHANA 2022 – COMPEITION SCHEDULE AND CONDITIONS**

Judging will be in accordance with the AFLACA Competition and Judging Manual Issue No. 8 O= Open I = Intermediate N = Novice J = Junior TR = Trophy

C/S = Craftsmanship A/A = Aesthetic Appeal SC = Special Condition Applies

# Standard Cabochon – Must not pass through a 15mm hole (SCI)

|  |  |  |  |
| --- | --- | --- | --- |
| O-1A.1 | Standard Cabochon | C/S – | Any Material |
| I-IA.2 | Standard Cabochon | C/S – | Any Material |
| N-IA.3 | Standard Cabochon | C/S – | Any Material |
| J-IA.4 | Standard Cabochon | C/S - | Any Material |
| O-1A.5 | Standard Cabochon | A/A | Ribbon Stone |
| I-1A.6 | Standard Cabochon | A/A | Ribbon Stone |
| N-1A.7 | Standard Cabochon | A/A | Ribbon Stone |
| J-1A.8 | Standard Cabochon | A/A | Ribbon Stone |

**TR**

**Fancy Cabochon – Minimum Dimension to be not less than 30mm on the longest Dimension across the outline shape (SCI)**

|  |  |  |
| --- | --- | --- |
| O-IB.1 | Fancy Cabochon | C/S – Mookaite |
| I-IB.2 | Fancy Cabochon | C/S – Mookaite |
| N-IB.3 | Fancy Cabochon | C/S – Mookaite |
| J-IB.4 | Fancy Cabochon | C/S – Any Material |
| O-IB.5 | Fancy Cabochon | A/A – Any Material |
| I-IB.6 | Fancy Cabochon | A/A – Any Material |
| N-IB.7 | Fancy Cabochon | A/A – Any Material |
| J-1B.8 | Fancy Cabochon | A/A – Any Material |

**Double Standard Cabochon - must not pass through a 15mm hole (SCI)**

|  |  |  |  |
| --- | --- | --- | --- |
| O-2A.1 | Double Standard Cabochon | C/S – Any material | **TR** |
| I-2A.2 | Double Standard Cabochon | C/S – Any material |  |
| N-2A.3 | Double Standard Cabochon | C/S – Any material |  |

**Double Fancy Cabochon – Must not pass through a 15 mm hole (SCI)**

|  |  |  |
| --- | --- | --- |
| O-2B.1 | Double Fancy Cabochon | C/S – Any Material |
| I-2B.2 | Double Fancy Cabochon | C/S – Any Material |
| N-2B.3 | Double Fancy Cabochon | C/S – Any Material |

**Freeform – Must not pass through 15mm hole (SCI)**

|  |  |  |
| --- | --- | --- |
| O-3.1 | Freeform | C/S – Any Material |
| I-3.2 | Freeform | C/S – Any Material |
| N-3.3 | Freeform | C/S – Any Material |
| J-3.4 | Freeform | C/S – Any Material |

**Freeform – Must not pass through 10mm hole (SCI)**

|  |  |  |
| --- | --- | --- |
| O-3.5 | Freeform | C/S – Opal Solid |
| N-3.6 | Freeform | C/S – Opal Solid |

**Opal Doublets- Must not pass through 10mm hole (SCI)**

O-4A Opal Doublet – Flat Top

O-4B Opal Doublet – Domed Top

# Carving – Hardness under 4 – Minimum size 50mm on the longest dimension (excluding base or mount) – Maximum size 300mm (including base of mount) (SCI and SC2)

O-5A.1 Carving – 3 dimensional

N-5A.2 Carving – 3 dimensional

# Carving – Any Hardness – Minimum size 50mm on the longest dimension (excluding base or mount) Maximum size 300mm (including base or mount) (SC1 and SC2)

O-5B.1 Carving – in relief

N-5B.2 Carving – in relief

# Carving – any hardness – minimum size 50 mm on the longest dimension (excluding base or mount) – maximum size 300mm (including base or mount) (SCI and SC2)

O-5E.1 Carving not otherwise specified in Groups 5A to 5D N-5E.2 Carving not otherwise specified in Groups 5A to 5D

# Facet Cuts – Minimum size 6mm on shortest axis of outline shape – Groups 8, 9, 10 and 11 – (SC1 and SC3)

O-8B.1 I-8B.2 N-8B.3 Standard Round Brilliant with Faceted girdle **Colourless Topaz TR**

O-9A.1 I-9A.2 N-9A.3 Oblong Step Cut with Cut corners **MM Coloured Cubic Zirconia TR**

O-10.1 Modified Standard Cut – OLD MINE **MM Colourless Topaz**

O-10.2 Modified Standard Cut – EVENT HORIZON **Any Quartz**

I-10.3 Modified Standard Cut– FANCY HEXAGONAL BRILLIANT **MM Coloured Spinal**

I-10.4 Modified Standard Cut – SQUARE EMERALD **MM Coloured Corundum**

N-10.5 Modified Standard Cut – TROTTOLA **Any Quartz**

N-10.6 Modified Standard Cut – SIMPLE ROUND BRILLIANT **Any Quartz**

|  |  |  |
| --- | --- | --- |
| O-11.1 | Fancy Cut – APEX WHEEL | **MM Coloured Cubic Zirconia** |
| I-11.2 | Fancy Cut – MINI HEXAGON APEX | **MM Coloured Cubic Zirconia** |
| N-11.3 | Fancy Cut - APHEX | **Any Quartz** |

# Tumbled Stones – must not be able to pass through a 15mm diameter hole (SC4)

|  |  |  |
| --- | --- | --- |
| 0-12A.1 | Tumbled Stones – Preformed Shape | Group of 3- different materials |
| N-12A.2 | Tumbled Stones – Preformed Shape | Group of 3 – Any material |
| O-12B.1 | Tumbled Stones- Natural Shape | Group of 3- Any material |
| N-12B.2 | Tumbled Stones- Natural Shape | Group of 3- Any Material |

**Polished Face – Minimum size 50mm across shortest axis – Maximum size 300mm on any dimension**

|  |  |  |
| --- | --- | --- |
| O-13.1 | Polished Flat Surface | C/S **TR** |
| N-13.2 | Polished Flat Surface | C/S |
| J-13.3 | Polished Flat Surface | C/S |
| O-14.1 | Polished Curved Surface | A/A |
| N-14.2 | Polished Curved Surface | A/A |
| J-14.3 | Polished Curved Surface | A/A |

**Gem Trees - must fit in 300mm cube but must not fit in a 150mm cube (SC1)**

O-16.1 Gem Tree

N-16.2 Gem Tree

# Novelty Gemcraft – Minimum size 50mm on the longest dimension excluding base (SC1)

O-17.1 Novelty Gem craft **TR**

N-17.2 Novelty Gem craft

# Hand Fabricated and Wire Wrapped Jewellery (SC5)

O-18A.1 Hand Fabricated Jewellery **NOT** intended to include Lapidary, Fossil or Mineral Specimen (s)

I-18A.2 Hand Fabricated Jewellery – **NOT** intended to include Lapidary, Fossil or Mineral Specimen (s)

N-18A.3 Hand Fabricated Jewellery – **NOT** intended to include Lapidary, Fossil or Mineral Specimen (s)

O-18B.1 Hand Fabricated Jewellery-- **WITH** lapidary Item (s) cut and set by entrant I-18B.2 Hand Fabricated Jewellery – **WITH** lapidary item(s) cut and set by entrant N-18B.3 Hand Fabricated Jewellery – **WITH** lapidary item(s) cut and set by entrant

O-18E.1 Wire Wrapped Jewellery- **WITH** Lapidary, Fossil or Mineral Items(s) prepared/

set by entrant

N-18E.2 Wire Wrapped Jewellery **WITH** Lapidary. Fossil or Mineral Item (s) prepared/

Set by entrant

# Cast Jewellery – using Patterns, mould or Dies MADE BY ENTRANT (SC5)

O-19A.1 Cast Jewellery **NOT** intended to include Lapidary Fossil or Mineral Item(s)

N-19A.2 Cast Jewellery **NOT** intended to include Lapidary Fossil or Mineral Item(s) **TR**

# Metal Clay Jewellery – using Patterns, Moulds or Dies MADE BY ENTRANT(SC5)

O-19E.1 Metal Clay Jewellery **NOT** intended to include Lapidary, Fossil or Mineral Item(s) N-19E.2 Metal Clay Jewellery **NOT** intended to include Lapidary Fossil or Mineral Item(s)

# Cast Jewellery – using Natural Objects as Patterns (SC5)

O-20A.1 Cast Jewellery **NOT** intended to include Lapidary Fossil or Mineral Item(s) **TR**

N-20A.2 Cast Jewellery **NOT i**ntended to include Lapidary Fossil or Mineral Item(s)

# Metal Clay Jewellery – using natural Object as Patterns (SC5)

O-20E.1 Metal Clay Jewellery **NOT** intended to include lapidary, fossils or minerals N-20E.2 Metal Clay Jewellery **NOT** intended to include lapidary, fossils or minerals

# Cast Jewellery – using Commercial Wax Models or Patterns (SC5)

|  |  |  |
| --- | --- | --- |
| O-21B.1 | Cast Jewellery | **WITH** Lapidary Item(s) Cut and Set by Entrant |
| N-21B.2 | Cast Jewellery | **WITH** Lapidary Item(s) Cut and Set by Entrant |

**Metal Clay Jewellery – using Commercial Wax Models or Patterns (SC5)**

O-21G.1 Metal Clay Jewellery **WITH** Commercial Lapidary Item(s) set by Entrant N-21G.2 Metal Clay Jewellery **WITH** Commercial Lapidary Item(s) set by Entrant

# Combined Jewellery – with Lapidary Items cut and set by Entrant (SC5)

O-23B.1 Combined Jewellery **WITH** lapidary items cut & set by Entrant

# Enamelled Jewellery in Hand Fabricated Setting (SC5)

O-24A.1 Enamelled Jewellery in hand fabricated setting N-24A.2 Enamelled Jewellery in hand fabricated setting

# Commercial Mount Jewellery (SC5)

O-25.1 Commercial Mount Jewellery **WITH** Lapidary item(s) cut and set by entrant I-25.2 Commercial Mount Jewellery **WITH** Lapidary item(s) cut and set by entrant N-25.3 Commercial Mount Jewellery **WITH** Lapidary item(s) cut and set by entrant

# Enamelling Sections (SC5)

O-26A.1 Enamelled Jewellery in Commercial Mount N-26A.2 Enamelled Jewellery in Commercial Mount

0-26B.1 Enamelled Jewellery without Mount **TR**

N-26B.2 Enamelled Jewellery without Mount O-26C.1 Enamelling – non-Jewellery

N-26C.2 Enamelling – non-Jewellery

|  |  |  |
| --- | --- | --- |
| **Showcases** |  |  |
| O-29B.1 | Showcase General – LIT |
| **Fossils** |  |
| O-32A.1 N-32A.2 | Fossils Non-Display – Any Locality Fossils Non-Display Any locality |
| O-32B.1 | Fossils Non-Display Group of 3 Invertebrates |
| N-32B.2 | Fossils Non-Display Group of 3 Invertebrates |
| **Minerals** |  |
| O-34A.1 | Mineral Non-Display Single Specimen Any Locality | Cabinet Size |
| N-34A.2 | Mineral Non-Display Single Specimen Any Locality | Cabinet Size |
| O-34A-3 | Mineral Non-Display Single Specimen Any Locality | Miniature |
| N.34A.4 | Mineral Non-Display Single Specimen Any Locality | Miniature |
| O-34B.1 | Mineral Non -Display Group of Three Any Locality | Thumbnail |
| N-34B.2 | Mineral Non -Display Group of Three Any Locality | Thumbnail |

#### GEMKHANA 2022 OFFICIAL COMPETITION FORM

**Mail to: The Competition Committee PO Box 109, Gymea NSW 2227**

**Postal Entries:** All Entry Forms and fees- must be **RECEIVED BY THE COMMITTEE** by Friday 19th August 2022 **Hand delivered:** Entries-Saturday 20th August 2022 (8.00am to Noon) at Port Hacking Lapidary Club **COMPETITOR DETAILS** Name: .............................................................................................................

Email: ......................................................................................................................................................

Address ....................................................................................................................................................

State: ………………………… Postcode…………………. Personal Contact No ...................................................

Full Club Details: ......................................................................................................................................

For Juniors Only, Date of Birth: …../…../ (NB: Must be under 16 at 16th August 2022)

ENTRY SUMMARY AND FEES ( Cheques made payable to Gem and Lapidary Council of NSW Inc) No of Entries: ………………………………… Are entries to be returned by mail? (Circle) Yes/No

Entry Fees-$1.00 per entry for first ten entries, thereafter free Amount $..................................

Return Postage- Registered $..................................

Total Amount Enclosed $.................................

Signature of Competitor: ....................................................................

|  |
| --- |
| **ENTRIES BY SECTION- Postal (by Friday 19/08/22 and Drop off (Saturday 20/08/22** |
| Section No | Entries (1or2) | Section No | Entries (1or2) | Section No | Entries (1or2) | Section No | Entries (1or2) | Section No | Entries (1or2) |
| O-1A.1 |  | I-1A.2 |  | N-1A.3 |  | J-1A.4 |  | O-1A.5 |  |
| I-1A.6 |  | N-1A.7 |  | J-1A.8 |  | O-1B.1 |  | I-1B.2 |  |
| N-1B.3 |  | J-1B.4 |  | O-1B.5 |  | I-1B.6 |  | N-1B.7 |  |
| J-1B.8 |  | O-2A.1 |  | I-2A.2 |  | N-2A.3 |  | O-2B.1 |  |
| I-2B.2 |  | N-2B.3 |  | O-3.1 |  | I-3.2 |  | N-3.3 |  |
| J-3.4 |  | O-3.5 |  | N-3.6 |  | O-4A |  | O-4B |  |
| O-8B.1 |  | I-8B.2 |  | N-8B.3 |  | O-9A.1 |  | I-9A.2 |  |
| N-9A.3 |  | O-10.1 |  | O-10.2 |  | I-10.3 |  | I-10.4 |  |
| N-10.5 |  | N-10.6 |  | O-11.1 |  | I-11.2 |  | N-11.3 |  |
| O-12A.1 |  | N-12A.2 |  | O-12B.1 |  | N-12B.2 |  |  |  |
| O.13.1 |  | N-13.2 |  | J-13.3 |  | O-14.1 |  | N-14.2 |  |
| J-14.3 |  | O-18A.1 |  | I-18A.2 |  | N-18A.3 |  | O-18B.1 |  |
| I-18B.2 |  | N-18B.2 |  | O-18E.1 |  | N-18E.2 |  | O-19A.1 |  |
| N-19A.2 |  | O-19E.1 |  | N-19E.2 |  | O-20A.1 |  | N-20A.2 |  |
| O-20E.1 |  | N-20E.2 |  | O-21B.1 |  | N-21B.2 |  | O-21G.1 |  |
| N-21G.2 |  | O-23B.1 |  | O-24.1 |  | N-24A.2 |  | O-25.1 |  |
| I-25.2 |  | N-25.3 |  | O-26A.1 |  | N-26A.2 |  | O-26B.1 |  |
| N-26B.2 |  | O-26C.1 |  | N-26C.2 |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |

|  |
| --- |
| **ENTRIES BY SECTIONS- Delivered and Setup by Entrant at Gemkhana (Friday 23/09/22)** |
| Section No | Entries1or2 | SectionNo | Entries1or2 | Section No | Entries1or2 | Section No | Entries1or2 | Section No | Entries 1or2 |
| O-5A.1 |  | N-5A.2 |  | O-5B.1 |  | N-5B.2 |  | O-5E.1 |  |
| N-5E.2 |  | O-16.1 |  | N-16.2 |  | O-17.1 |  | N-17.2 |  |
| O-29B.1 |  | O-32A.1 |  | N-32A.2 |  | O-32B.1 |  | N-32B.2 |  |
| O-34A.1 |  | N-34A.2 |  | O-34A.3 |  | N-34A.4 |  | O-34B.1 |  |
| N-34B.2 |  |  |  |  |  |  |  |  |  |

**GEMKHANA 2022**

Section: O-8B.1 I-8B.2 N-8B.3

Material: Colourless Topaz

Facets: 57 + 16 Girdle (Crown = 33 Pavilion = 24)

Meets: 57 (Crown = 32 Pavilion = 25)

7 4

48

54

42

60

36

66

30

2

C4

2

78

18

C3

84

C2

12

C1

90

6

<96>

U

W

P3

P1

P2

Angles for R.I. = 1.610

<96>

T

C

C2

C1

P1

P

P3

L

8-fold, mirror-image symmetry 96 index

L/W = 1.000 T/W = 0.536 U/W = 0.536

P/W = 0.435 C/W = 0.156

Vol./W³ = 0.205

PAVILION

|  |  |  |  |
| --- | --- | --- | --- |
| P1 | 42.00° | 03-09-15-21-27-33-39-45- | Cut to form TCP |
|  |  | 51-57-63-69-75-81-87-93 |  |
| P2 | 90.00° | 03-09-15-21-27-33-39-45- | Set stone size |
|  |  | 51-57-63-69-75-81-87-93 |  |
| P3 | 40.00° | 96-12-24-36-48-60-72-84 | Meet P1 at girdle a form PCP |

CROWN

|  |  |  |  |
| --- | --- | --- | --- |
| C1 | 46.00° | 03-09-15-21-27-33-39-45- | Set girdle thickness |
|  |  | 51-57-63-69-75-81-87-93 |  |
| C2 | 38.00° | 96-12-24-36-48-60-72-84 | Meet C1 at girdle |
| C3C4 | 23.00°0.00° | 06-18-30-42-54-66-78-90Table | Meet C1-C2Meet C2-C3 |

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**GEMKHANA 2022**

**Section :** O-9A-1 I-9A-2 N-9A-3

**Material :** MM Coloured Cubic Zirconia

## **Facets :** 45 + 8 Girdle =53 (Crown 25 Pavilion =20)

**Meets :** 44 (Crown = 24 Pavilion = 20)

48

54 42

60 36

U F C

W

B

P6 P4

 P5 P9

P3 P10

P11

P8

P7

66 30

72 J

I F C 24 P2

78 G HE 18

 ~~D~~ B

 ~~A~~

84 12

P1

90 6

<96>

<96>

Angles for R.I. = 2.160

T

C

D A

B

P10

P3

P

P9

P5 P7

L

2-fold, mirror-image symmetry 96 index

L/W = 1.330 T/W = 0.812 U/W = 0.482

P/W = 0.604 C/W = 0.223

Vol./W³ = 0.555

PAVILION

P1 90.00° 96-48 Set length of stone P2 90.00° 24-72 Set width of stone P3 56.00° 96-48 Set girdle line

P4 56.00° 24-72 Level girdle

P5 49.00° 96-48 Cut width (approx 1/3rd) P6 49.00° 24-72 Meet P5

P7 42.00° 96-48 Cut width (approx 1/3rd) P8 42.00° 24-72 Meet P7

P9 49.00° 12-36-60-84 Meet P8-P7

P10 56.00° 12-36-60-84 Meet P6-P5

P11 90.00° 12-36-60-84 Level girdle CROWN

|  |  |  |  |
| --- | --- | --- | --- |
| A | 50.00° | 96-48 | Set girdle girdle thickness |
| B | 50.00° | 12-36-60-84 | Level girdle |
| C | 50.00° | 24-72 | Level girdle |
| D | 40.00° | 96-48 | Cut to width required |
| E | 40.00° | 12-36-60-84 | Meet D |
| F | 40.00° | 24-72 | Meet E |
| G | 25.00° | 96-48 | Cut to width required |
| H | 25.00° | 12-36-60-84 | Meet G |
| I | 25.00° | 24-72 | Meet H 15 |
| J | 0.00° | Table |  |

**GEMKHANA 2022**

Section: O-10.1

Material: Colourless Topaz

Facets: 81 + 8 Girdle = 89 (Crown = 33 Pavilion = 48)

Meets: 49 (Crown = 24 Pavilion = 25)

60 48 36

E

D

C

B

A

<96>

U

W

7

6

5

3

4

1

2

72 24

84 12

<96>

### OLD MINE

Designer : Steve & Nancy Attaway Angles for R.I. = 1.610

81 + 8 girdles = 89 facets

4-fold, mirror-image symmetry 96 index

L/W = 1.000 T/W = 0.523 U/W = 0.523

P/W = 0.491 C/W = 0.131

Vol./W³ = 0.239

PAVILION

T

C

A

1

4 3

P

6

5

7

L

1 53.77° 03-21-27-45- Cut to TCP

51-69-75-93

2 90.00° 03-21-27-45- Size & level girdle

51-69-75-93

3 48.67° 02-22-26-46- Meet 1 @ girdle

50-70-74-94

4 47.91° 04-20-28-44- Meet 1 @ girdle

52-68-76-92

5 47.74° 01-23-25-47- Meet @ girdle

49-71-73-95

6 41.02° 10-14-34-38- Meet @ girdle

58-62-82-86

7 39.00° 03-21-27-45- Form PCP

51-69-75-93

CROWN

A 33.18° 03-21-27-45- Set girdle thickness

51-69-75-93

B 28.84° 01-23-25-47- Meet A @ girdle

49-71-73-95

C 27.45° 05-19-29-43- Meet A @girdle

53-67-77-91

D 24.79° 03-21-27-45- Meet A, B, C 51-69-75-93

E 0.00° Table Meet B, C, D

16

**GEMKHANA 2022**

## Section:O-10.2 Material: Any Quartz

Facets: 67 + 15 Girdle (Crown = 37 Pavilion = 30)

Meets: 55 (Crown = 30 Pavilion = 25)

64 32

48

56

40

C8

C6

C7

C5

C4 C3

C1 C2

U

W

P3

P5 P4 P1 P7 P6

P2

P9

P8

72 24

80 16

88 8

<96>

<96>

### EVENT HORIZON

Designer : Arya Akhavan Angles for R.I. = 1.540

T

C5

C

C7 C6

C1 C2 C4 C3

P1

P6 P4

P5

P

P3

L

P7

67 + 15 girdles = 82 facets

3-fold, mirror-image symmetry 96 index

L/W = 1.011 T/W = 0.531 U/W = 0.495

P/W = 0.429 C/W = 0.176

Vol./W³ = 0.190

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| PAVILION |  |  | CROWN |  |  |
| P1 43.19° | 06-26-38-58-70-90 | Cut to TCP | C1 | 45.00° | 96-32-64 | Set Girdle Thickness |
| P2 90.00° | 06-26-38-58-70-90 | Set Stone Size | C2 | 45.00° | 03-29-35-61-67-93 | Level Girdle |
| P3 41.50° | 07-25-39-57-71-89 | Meet P & form PCP | C3 | 41.95° | 06-26-38-58-70-90 | Level Girdle |
| P4 44.04° | 05-27-37-59-69-91 | Meet P3 | C4 | 39.84° | 04-28-36-60-68-92 | Meet C2, C3 @ girdle |
| P5 45.37° | 96-32-64 | Meet P3 | C5 | 34.53° | 03-29-35-61-67-93 | Meet C1, C2, C4 |
| P6 55.00° | 03-29-35-61-67-93 | Meet P1, P4, P5 | C6 | 32.36° | 02-30-34-62-66-94 | Meet C1, C2, C4, C5 |
| P7 55.00° | 96-32-64 | MEET P4, P5, P6 | C7 | 33.98° | 96-32-64 | Meet C1, C2, C4, C5, C6 |
| P8 90.00° | 03-29-35-61-67-93 | Level Girdle | C8 | 0.00 | Table |  |
| P9 90.00° | 96-32-64 | Level Girdle |  |  |  |  |

17

**GEMKHANA 2022**

Section: I-10.3

Material: MM Coloured Spinel

Facets: 49 + 12 Girdle = 61 (Crown = 25 Pavilion = 24)

Meets: 43 (Crown = 24 Pavilion = 19)

48

56 40

T

W

P3

P1

P2

64 32

72 C4 24

C3

80 C2 16

C1

88 8

<96>

<96>

### FANCY HEXAGONAL BRILLIANT

Designer Jim Perkins Angles for R.I. = 1.720

49 + 12 girdles = 61 facets

6-fold, mirror-image symmetry

|  |  |
| --- | --- |
| P1P P3L | 96 indexL/W = 1.073 T/W = 0.P/W = 0.449 C/W = 0.Vol./W³ = 0.225 |
| PAVILION |
| P1 43.00° | 02-14-18-30-34-46- | Cut toTCP |
|  |  | 50-62-66-78-82-94 |  |
| P2 90.00° | 02-14-18-30-34-46- | Set Stone Size |
|  |  | 50-62-66-78-82-94 |  |
| P3 42.00° | 01-15-17-31-33-47- | Meet P1 & Form PCP |
|  |  | 49-63-65-79-81-95 |  |
| CROWN |
| C1 | 37.50° | 02-14-18-30-34-46- | Set Girdle thickness |
|  |  | 50-62-66-78-82-94 |  |
| C2 | 34.00° | 96-16-32-48-64-80 | Meet C1 @ girdle |
| C3 | 12.00° | 08-24-40-56-72-88 | Meet C1-C2 |
| C4 | 0.00° | Table | Meet C2-C3 |

524 U/W = 0.454

U

C

C2

C1

161

18

**GEMKHANA 2022**

Section: I-10.4

Material: MM Coloured Corundum

Facets: 53 + 8 girdle = 61 (Crown = 29 Pavilion = 24)

Meets: 29 (Crown = 16 Pavilion = 13)

60 48 36

72 24

C3

C1

C4

C2

C5

C6

U

W

P1

P2

P3

P4

84 <96> 12

<96>

T

C

C1

P3

P

P1 P2

L

### SQUARE EMERALD

Designer: Jim Perkins Angles for R.I. = 1.760 53 + 8 girdles = 61 facets

4-fold, mirror-image symmetry 96 index

L/W = 1.000 T/W = 0.521 U/W = 0.521

P/W = 0.441 C/W = 0.142

Vol./W³ = 0.264

PREFORM

|  |  |  |
| --- | --- | --- |
| 40.01° | 96-24-48-72 | Cut to TCP |
| 90.00° | 96-24-48-72 | Set stone width |
| 34.04° | 12-36-60-84 | Cut to TCP |
| 90.00° | 12-36-60-84 | Level girdle |

PAVILION

P1 36.00° 06-18-30-42- Cut to new PCP

54-66-78-90

P2 38.95° 03-21-27-45- Meet G1-G2

51-69-75-93

CROWN

|  |  |  |  |
| --- | --- | --- | --- |
| C1 | 36.00° | 96-24-48-72 | Set Girdle thickness |
| C2 | 22.25° | 12-36-60-84 | Level girdle |

C3 24.70° 03-21-27-45- Meet C1-C2-G1-G2

51-69-75-93

C4 21.20° 06-18-30-42- Meet C2-C3-G1-G2

54-66-78-90

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| P3 | 47.94° | 96-24-48-72 | Meet G1-G2-P2 | C5 12.00° | 12-36-60-84 | Meet C3-C4-C5 |
| P4 | 38.95° | 12-36-60-84 | Level girdle | C6 0.00° | Table |  |

**GEMKHANA 2022**

Section: N-10.5 Material: Any Quartz

Facets: 37 + 8 Girdle = 45 (Crown = 17 Pavilion = 20)

Meets: 25 (Crown = 16 Pavilion = 9)

48

54 42

66 30

60

36

E

C

B

D

84

A

12

U

W

72 24

78

90 6

<96>

<96>

18

1

4 3

2

### TROTTOLA

Author Marco Voltolini Angles for R.I. = 1.540 37 + 8 girdles = 45 facets

T

C

A

P

L

3

4-fold, mirror-image symmetry 96 index

L/W = 1.000 T/W = 0.384 U/W = 0.384

P/W = 0.520 C/W = 0.195

Vol./W³ = 0.297

PAVILION

1 41.50° 96-06-12-18- FormTCP

24-30-36-42-

48-54-60-66-

72-78-84-90

2 90.00° 96-24-48-72 Set stone size

3 90.00° 12-36-60-84 Set stone size

4 60.00° 96-24-48-72 Mett P1-P1 at girdle CROWN

|  |  |  |
| --- | --- | --- |
| A | 36.19° | 96-24-48-72 Set girdle thickness |
| B | 30.00° | 01-25-49-73 Meet A at girdle |
| C | 22.13° | 03-27-51-75 Meet A-B |
| D | 41.00° | 12-36-60-84 Meet B-C |
| E | 0.00° | Table |

Note:- Rotation of Crown spiral in either direction will be eligible

**GEMKHANA 2202**

Section: N-10.6 Material: Any Quartz

Facets: 18 + 12 Girdle = 30 (Crown = 25 Pavilion = 18)

Meets: 43 (Crown = 24 Pavilion = 19)

48

56 40

T

W

P3

P1

P2

64 32

72 C4 24

C3

80 C2 16

C1

88 8

<96>

<96>

### SIMPLE ROUND BRILLIANT

Designer: Dennis Anderson Angles for R.I. = 1.540

U

C

C1

P1

P

P3

L

43 + 12 girdles = 55 facets

6-fold, mirror-image symmetry 96 index

L/W = 1.000 T/W = 0.344 U/W = 0.298

P/W = 0.450 C/W = 0.189

Vol./W³ = 0.208

PAVILION

|  |  |  |
| --- | --- | --- |
| P1 | 43.90° | 04-12-20-28-36-44- |
|  |  | 52-60-68-76-84-92 |
| P2 | 90.00° | 04-12-20-28-36-44- |
|  |  | 52-60-68-76-84-92 |
| P3 | 42.00° | 96-16-32-48-64-80 |
| CROWNC1 35.99° 04-12-20-28-36-44- |
|  |  | 52-60-68-76-84-92 |
| C2 | 30.00° | 96-16-32-48-64-80 |
| C3 | 19.00° | 08-24-40-56-72-88 |
| C4 | 0.00° | Table |

**GEMKHANA 2022**

Section: O-11.1

Material: Coloured Cubic Zirconia

Facets: 72 + 16 girdle = 88 (Crown = 48 Pavilion = 24)

Meets: 66 (Crown = 41 Pavilion = 25)

48

54 42

66 30

60

36

5

4

3

2

84

1

12

W

3

1

2

72 24

78 18

90 6

<96>

<96>

### APEX WHEEL

Designer: Richard Anderson Angles for R.I. = 2.160

C

2

1

1

P

3

L

72 + 16 girdles = 88 facets

8-fold, mirror-image symmetry 96 index

L/W = 1.000

P/W = 0.466 C/W = 0.210

Vol./W³ = 0.228

PAVILION

1 44.40° 03-09-15-21-27-33-39-45-

51-57-63-69-75-81-87-93

2 90.00° 03-09-15-21-27-33-39-45-

51-57-63-69-75-81-87-93

3 43.00° 96-12-24-36-48-60-72-84

CROWN

1 43.50° 03-09-15-21-27-33-39-45-

51-57-63-69-75-81-87-93

2 37.00° 96-12-24-36-48-60-72-84

3 22.00° 06-18-30-42-54-66-78-90

4 14.00° 96-12-24-36-48-60-72-84

5 8.00° 96-12-24-36-48-60-72-84

GEMKHANA 2022

Section:‐ I‐11.2

Material:‐ MM Coloured Spinel

Facets:‐60 + 8 Girdle (Crown 42 Pavilion 18)

Meets:‐ 32 (Crown 25 Pavilion 7)

48

56 40

72 24

64

32

D

80

16

A B

C

W

1

3

88 8

<96>

<96>

2

MINI HEXAGON APEX

Author Norman Steele Angles for R.I. = 1.720 60 + 6 girdles = 66 facets

C

A B

3

1

P

L

6-fold, mirror-image symmetry 96 index

L/W = 1.155

P/W = 0.485 C/W = 0.171

Vol./W³ = 0.254

PAVILION

1 41.00° 04-12-20-28-36-44- Cut of facets to PCP

52-60-68-76-84-92

2 90.00° 96-16-32-48-64-80 Set stone size

3 65.00° 96-16-32-48-64-80 Meet P1-P1 at corners CROWN

A 40.00° 96-16-32-48-64-80 Set girdlethickness

B 33.00° 02-14-18-30-34-46- Meet C1-C1-girdle

50-62-66-78-82-94

C 28.00° 03-13-19-29-35-45- Meet C2-C1-C2

51-61-67-77-83-93

D 10.00° 01-15-17-31-33-47- Meet C1-C2-C3

49-63-65-79-81-95

23

**GEMKHANA 2022**

Section: N-11.3 Material: Any Quartz

Facets: 30 + 6 girdle = 36 (Crown = 18 Pavilion = 12)

Meets: 20 (Crown = 13 Pavilion = 7)

48

56 40

72 24

64

32

80

16

C3

C2

C1

W

P3

P1

88 8

<96>

<96>

P2

### APHEX

Designer Jeff Ford Angles for R.I. = 1.540 30 + 6 girdles = 36 facets

C

P1

P

C1

6-fold, mirror-image symmetry 96 index

L/W = 1.155

= 0.230



|  |  |
| --- | --- |
| P3L | P/W = 0.520 C/WVol./W³ = 0.276 |
| PAVILION |
| P1 50.00° | 96-16-32-48-64-80 | Cut To TCP |
| P2 90.00° | 96-16-32-48-64-80 | Set stone size |
| P3 42.00° | 08-24-40-56-72-88 | Cut to PCP |
| CROWN |
| C1 | 38.00° | 96-16-32-48-64-80 | Set girdle thickness |
| C2 | 25.00° | 08-24-40-56-72-88 | Meet C1 @ girdle |
| C3 | 18.00° | 08-24-40-56-72-88 | Meet C1-C2 |

24