



*Fédération
Aéronautique
Internationale*

Competition Rules

For Formation Skydiving

2013 Edition
Effective 1st March 2013

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¹ FAI Statutes, Chapter 1, para. 1.6

² FAI Sporting Code, General Section, Chapter 3, para 3.1.3.

³ FAI Statutes, Chapter 1, para 1.8.1

⁴ FAI Statutes, Chapter 2, para 2.1.1; 2.4.2; 2.5.2 and 2.7.2

⁵ FAI Bylaws, Chapter 1, para 1.2.1

⁶ FAI Statutes, Chapter 2, para 2.4.2.2.5

⁷ FAI Bylaws, Chapter 1, para 1.2.3

⁸ FAI Statutes, Chapter 5, para 5.1.1; 5.5 and 5.6

⁹ FAI Sporting Code, General Section, Chapter 3, para 3.1.7

¹⁰ FAI Sporting Code, General Section, Chapter 1, paras 1.2. and 1.4

¹¹ FAI Statutes, Chapter 5, para 5.6.3

¹² FAI Bylaws, Chapter 1, para 1.2.2

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This document takes effect on 1st of March 2013.

The 2013 Edition differs from the 2012 Edition in those paragraphs with a vertical bar in the margin.

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1. FAI Authority

- 1.1.** The competition will be conducted under the authority granted by the FAI, according to the regulations of the Sporting Code of the FAI, General Section, and Section 5 as approved by the IPC and validated by the FAI, and these rules. All participants accept these rules and the FAI regulations as binding by registering in the competition.

2. Definitions of Words and Phrases used in these Rules

- 2.1.** Formation: consists of jumpers linked by grips.
- 2.2.** Grip: consists of a handhold on an arm or leg of another jumper as shown in 7.2. As a minimum, a grip requires stationary contact.
- 2.3.** Body: consists of the entire competitor and their equipment.
- 2.4.** Dive Pool: consists of the Random Formations and Block Sequences depicted in the annexes of these rules.
- 2.5.** Subgroup: is the individual jumper, or linked jumpers, required to complete a designated manoeuvre during the inter of a block sequence.
- 2.6.** A subgroup's centerpoint: is one of the following:
1. The defined grip or the geometric centre of the defined grips within a subgroup of linked jumpers.
 2. The geometric centre of an individual's torso.
- 2.7.** Total Separation: is when all competitors show at one point in time they have released all their grips and no part of their arms have contact with another body.
- 2.8.** Inter: is an intermediate requirement within a block sequence which must be performed as depicted in the dive pools.
- 2.9.** Sequence: is a series of random formations and block sequences which are designated to be performed on a jump.
- 2.10.** Scoring formation: is a formation which is correctly completed and clearly presented either as a random formation or within a block sequence as depicted in the dive pool, and which, apart from the first formation after exit, must be preceded by a correctly completed and clearly presented total separation or inter, as appropriate.
- 2.11.** Infringement: is one of the following:
1. An incorrect or incomplete formation which is followed within working time by either
 - a total separation or,
 - an inter, whether correct or not.
 2. A correctly completed formation preceded by an incorrect inter or incorrect total separation.
 3. A formation, inter, or total separation not clearly presented.
- 2.12.** Omission: is one of the following:
1. A formation or inter missing from the drawn sequence.

2. No clear intent to build the correct formation or inter is seen and another formation or inter is presented and there is an advantage to the team resulting from the substitution.
- 2.13.** Working Time: is the period of time during which teams are scored on a jump which starts the first moment any competitor (other than the Videographer) separates from the aircraft, as determined by the Judges, and terminates a number of seconds later as specified in 3.1.
- 2.14.** NV: Formations, inters, or total separations not visible on screen due to meteorological conditions, or factors relating to the Videographer's freefall video equipment that can not be controlled.

3. The Events

- 3.1.** The discipline will be comprised of the following events:
- 3.1.1 4-Way Events: Exit altitude is 3 050 meters / 10 000 feet AGL. Working Time is 35 seconds.
 - 3.1.2 8-Way Event: Exit altitude is 3 960 meters / 13 000 feet AGL. Working Time is 50 seconds.
 - 3.1.3 For meteorological reasons only, and with the consent of the FAI Controller and the Chief Judge, the Meet Director may change the exit altitude and/or working time and continue the competition. In this case the following conditions will apply:
 - 3.1.3.1 The working time will be
 - 20 or 35 seconds for the 4-Way events, and
 - 30 or 50 seconds for the 8-Way event
 The reduced working time must be used if the exit altitude is lowered (ref 3.1.1 and 3.1.2). The next round must commence if the working time is changed.
 - 3.1.3.2 The minimum exit altitude will be
 - 2150 meters / 7000 feet AGL for the 4-Way events,
 - 2750 meters / 9000 feet AGL for the 8-Way event.
 The maximum exit altitude will be 3960 meters / 13000 feet AGL for all events.
- 3.2.** Objective of the Events
- 3.2.1 The objective of the event is for the team to complete as many scoring formations as possible within the working time, while correctly following the sequence for the round.
 - 3.2.2 The accumulated total of all rounds completed is used to determine the placing of teams. Only one completed round is required to declare champions.
 - 3.2.2.1 If two or more teams have equal scores the following order of procedures will be applied:
 - 3.2.2.1.1 For entry into the semi-final and the final rounds:
 - i. the highest score in any completed round,
 - ii. the highest score starting with the last completed round and continuing in reverse order, round by round until the tie is broken,
 - iii. the fastest time (measured to hundredths of a second) to the last common scoring formation in the last completed round.
 - 3.2.2.1.2 For determination of the final placings:
 - i. one tie break round, if possible (for the first three placing's only). The tie break round will be the next drawn round of the competition,
 - ii. the highest score in any completed round,
 - iii. the highest score starting with the last completed round and continuing in reverse order, round by round until the tie is broken,
 - iv. the fastest time (measured to hundredths of a second) to the last common

scoring formation in the last completed round.

3.3 Performance Requirements

- 3.3.1 Each round consists of a sequence of formations depicted in the dive pools of the appropriate annexes, as determined by the draw.
- 3.3.2 It is the responsibility of the team to clearly present the start of working time, correct scoring formations, inters and total separations to the judges.
- 3.3.3 Scoring formations need not be perfectly symmetrical, but they must be performed in a controlled manner. Mirror images of random formations and whole block sequences are permitted.
- 3.3.4 In sequences, total separation is required between block sequences, between random formations, and between block sequences and random formations.
- 3.3.5 Where degrees are shown, (180°, 270°, 360°, 540°), this indicates the approximate degrees and direction of turn required to complete the inter as intended. The degrees shown are approximately that amount of the circumference of the subgroup's centerpoint to be presented to the centerpoint(s) of the other subgroup(s).
For judging purposes, the approximate degrees and direction of turn of subgroups centerpoints will be assessed using only the two dimensional video evidence as presented.
- 3.3.6 Contact is allowed between different subgroups during the inter of a block sequence.
- 3.3.7 Where subgroups are shown, they must remain intact as a subgroup with only the depicted grips on other jumpers in that subgroup.
- 3.3.8 Assisting handholds on other bodies in a scoring formation are not permitted.
- 3.3.9 Handholds by the jumper on their own body within a subgroup or a scoring formation are permitted.

4. General Rules

- 4.1. Teams may consist of competitors of either or both sexes, except in the female event where (except for the videographer) all competitors must be female (see 6.3.5)
- 4.2. The Draw
 - 4.2.1 The draw of the sequences will be done publicly and supervised by the Chief Judge. Teams will be given not less than two hours knowledge of the results of the draw before the competition starts.
 - 4.2.2 Event Draws: All the «Block Sequences» (numerically numbered) and the «Random Formations» (alphabetically marked) shown in the appropriate annex will be singularly placed in one container. Individual withdrawal from the container, (without replacement) will determine the sequences to be jumped in each round. Each round will be drawn so as to consist of five or six scoring formations, whichever number is reached first.
 - 4.2.3 Use of Dive Pool: Each block or formation will be drawn only once for the scheduled rounds of each competition. In the event that additional rounds are necessary, due to the tie-breaking jump-off, the dive pool for this round will consist of the blocks and formations which were not drawn for the scheduled rounds. In the event that all of the remaining blocks and formations do not complete the tie breaking round, the draw will continue from an entire original dive pool in that event, excluding any blocks or formations which have already been drawn for that round.
- 4.3. Competitors are not allowed to use a wind tunnel (freefall simulator) after the draw has been made.
- 4.4. Jump Order

- 4.4.1 The jump order for the first competition round of each event will be in the reverse order of the first ten placing's in that event at the most recent IPC sanctioned World Parachuting Championships of Formation Skydiving. All teams not covered by this procedure will jump at the beginning of the round, with their jump order determined by a draw.
- 4.4.2 An updated reverse-order-of-jumping shall be implemented after every break in the competition jumps which occurs after a completed round. The semi-final and final rounds will be in reverse order of placing.

4.5. Video Transmission and Recording

- 4.5.1. Each team shall provide the video evidence required to judge each round. Each freefall Videographer must use the video transmission system if provided by the Organiser.
- 4.5.2. For the purpose of these rules, "freefall video equipment" shall consist of the complete video system(s) used to record the video evidence of the team's freefall performance, including the camera(s), recording media, and battery(ies). All video equipment must deliver a High Definition 1080 type digital signal with a minimum frame rate of 25 frames per second, through a memory card (minimum class 10). The videographer is responsible for ensuring the compatibility of the freefall video equipment with the scoring system.
- 4.5.3. As soon as possible after each jump is completed, the freefall videographer must deliver the freefall video equipment (including the tape(s) used to record that jump) for dubbing at the designated dubbing station. The video evidence must remain available for viewing or download until all scores are posted as final.
- 4.5.4. Only one video recording will be dubbed and judged. Secondary video recordings may only be used in NV situations.
- 4.5.5. The dubbing station will be as close to the landing area as possible.
- 4.5.6. A Video Controller will be appointed by the Chief Judge prior to the start of the Judges' Conference. The Video Controller may inspect a team's freefall video equipment to verify that it meets the performance requirements as determined by him/her. Inspections may be made at any time during the competition which does not interfere with a team's performance, as determined by the Event Judge. If any freefall video equipment does not meet the performance requirements as determined by the Video Controller, this equipment will be deemed to be unusable for the competition.
- 4.5.7. A Video Review Panel will be established prior to the start of the official training jumps, consisting of the Chief Judge, the President of the Jury, and the FAI Controller. Decisions rendered by the Video Review Panel shall be final and shall not be subject to protest or review by the Jury.
- 4.5.8. If the Video Review Panel determines that the freefall video equipment has been deliberately tampered with, the team will receive no points for all competition rounds involved with this tampering.
- 4.5.9. The Organizer must provide the teams with a way of identification of the team showing the team number to be recorded by the Videographer just before exit. The recording should continue with the jump without a stop in recording.

4.6. Exit Procedure

- 4.6.1. There are no limitations on the exit other than those imposed by the Chief Pilot for safety reasons.
- 4.6.2. The exit will be controlled by radio and commands relayed to the team in the aircraft by the pilot or crew. Exit commands will be made using an appropriate signal system.

4.7. Scoring

- 4.7.1. A team will score one point for each scoring formation performed in the sequence within the allotted Working Time of each round. Teams may continue scoring by continually repeating the sequence.
- 4.7.2. For each omission three points will be deducted. If both the inter and the second formation in a block sequence are omitted, this will be considered as only one omission.
- 4.7.3. If an infringement in the scoring formation of a block sequence is carried into the

inter (ref. 2.8.), this will be considered as one infringement only, provided that the intent of the inter requirements for the next formation is clearly presented and no other infringement occurs in the inter.

4.7.4. The minimum score for any round is zero points.

4.8. Rejumps

4.8.1. In a NV situation, the video evidence will be considered insufficient for judging purposes, and the Video Review Panel will assess the conditions and circumstances surrounding that occurrence. In this case a rejump will be given unless the Video Review Panel determines that there has been an intentional abuse of the rules by the team, in which case no rejump will be granted and the team's score for that jump will be zero.

4.8.2. Contact or other means of interference between competitors in a team and/or their Videographer shall not be grounds for the team to request a rejump.

4.8.3. Adverse weather conditions during a jump are no grounds for protest. However, a rejump may be granted due to adverse weather conditions, at the discretion of the Chief Judge.

4.8.4. Problems with a competitor's equipment (excluding freefall video equipment) shall not be grounds for the team to request a rejump.

4.9. Training Jumps

4.9.1. Each team in each event will be given the option of one official training jump before the draw is made.

4.9.2. The aircraft type and configuration, plus the judging and scoring systems to be used in the competition will be used for the official training jump.

4.9.3. Teams can perform a sequence of their own choice and receive an evaluation from the judges.

5. Judging

5.1. The official training jump and competition jumps will be judged as the Videographer provides the video evidence. The Chief Judge may modify this procedure with the consent of the FAI Controller.

5.2. The judging will, as far as practical circumstances allow (landings out, rejumps etc), be judged in the reverse order of placing.

5.3. Five Judges must evaluate each team's performance.

5.4. The Judges will watch the video evidence of each jump (1) one time at normal speed to determine points in time. The moment of freeze frame at the end of working time will be determined at the first viewing. If a judgement call occurs, a second viewing of the jump will be conducted at normal or reduced speed between 70-90 percent of normal speed. At the request of the Event Judge a (3rd) third view of part(s) of the jump can be conducted at normal or reduced speed. The speed of the second- and third viewings (normal or reduced) will be determined by the Event Judge. The Chief Judge will decide prior to the start of the Competition the percentage of reduced speed to be used for the different Events. The freeze frame from the first viewing will be applied on each viewing.

5.4.1. If, after the viewings are completed, and within fifteen seconds of the knowledge of the result, the Chief Judge, Event Judge or any Judge on the panel considers that an absolutely incorrect assessment has occurred, the Chief Judge or Event Judge will direct that only that part(s) of the jump in question be reviewed at reduced speed in accordance with 5.4. If the review results in a unanimous decision by the Judges on the part(s) of the performance in question, the score for the jump will be adjusted accordingly. Only one review is permitted for each jump.

- 5.5.** The Judges will use the electronic scoring system to record their evaluation of the performance. The Judges may correct their evaluation record after the jump has been judged. Corrections to the evaluation record can only be made before the Chief Judge signs the score sheet. All individual judge's evaluations will be published.
- 5.6.** A majority of Judges must agree in the evaluation in order to;
- credit the scoring formation, or
 - assign an omission, or
 - determine an NV situation.
- 5.7.** The chronometer will be operated by the Judges or by a person(s) appointed by the Chief Judge, and will be started as determined in 2.13. If Judges cannot determine the start of the working time, the following procedure will be followed. Working time will start as the videographer separates from the aircraft and a penalty equal to 20% (rounded down) of the score for that jump will be deducted from the score for that jump.

6. Rules Specific to the Competition

- 6.1.** Title of the Competition: “___TH FAI World/Continental Parachuting Championships or World Cup of Formation Skydiving (insert location), (insert year)”.
- 6.2.** Aims of World/Continental Parachuting Championships and World Cups
- 6.2.1. To determine World/Continental Champions or World Cup Winners of Formation Skydiving in the:
- 4-Way Event,
 - 8-Way Event,
 - 4-Way Female Event
- 6.2.2. and
- To determine the world standings of the competing teams,
 - To establish Formation Skydiving world records,
 - To promote and develop Formation Skydiving,
 - To present a visually attractive image of the competition jumps and standings (scores) for competitors, spectators and media,
 - To exchange ideas and strengthen friendly relations between the sport parachutists, judges, and support personnel of all nations,
 - To allow participants to share and exchange experience, knowledge and information,
 - To improve judging methods and practices.
- 6.3.** Composition of Delegations:
- 6.3.1. Each delegation may be comprised of:
- One (1) Head of Delegation,
 - One (1) Team Manager,
 - Freefall videographers as in 6.3.4 and
- 6.3.2. At a World/Continental Championship:
- One 4-Way team consisting of up to:
 - Five (5) 4-Way Competitors
 - One female 4-Way team consisting of up to:
 - Five (5) female 4-Way Competitors
 - One 8-Way team consisting of up to:
 - Nine (9) 8-Way Competitors
- 6.3.3. At a World Cup:
- Any number (to a maximum of 4) teams per event (composed as for a World Championship) to be decided by the Organiser and announced in the bulletins.
- 6.3.4. Videographers must be entered for each team as part of the delegation and must be a member of the Delegation's NAC. A Videographer may be replaced at any time

during the competition, (with the agreement of the FAI Controller). The evaluation process for the video evidence will be the same for any Videographer. Videographers may be one of the following:

- A. One person in addition to the team composition in 6.3.2. This competitor is to be considered as a team member for the purposes of awards and medals.
 - B. Any other person (ref 6.3.6). This Videographer is not eligible to receive awards and medals. This Videographer may jump only as a Videographer and is subject to the same regulations as other competitors on the team.
- 6.3.5. No Competitor (including Videographers) may compete in more than two Formation Skydiving events (including Vertical Formation Skydiving). In addition no competitor may compete in both the FS 4-Way Open event and FS Female 4-Way event.
- 6.3.6. Any Competitor that competes in two different events must be listed separately on the entry form for each event.

6.4. Program of Events:

- 6.4.1. The World/Continental Championships or World Cup is comprised of:
- Up to 8 rounds considered as selection rounds, and
 - Final rounds, consisting of one semi final and one final round.
- 6.4.2. Time must be reserved before the end of competition to allow for the completion of the semi-final, final and tie break round.
- 6.4.3. The semi-final round will consist of the teams with the 10 highest placing's after the selection rounds.
- 6.4.4. The final round will consist of the teams with the 6 highest placing's after the semi-final.
- 6.4.5. A selection round left incomplete must be completed as soon as possible, but after the round in progress has been completed.
- 6.4.6. If all the selection rounds are not completed at the starting time of the semi-final, the round in progress will become the semi final or final round as appropriate. Where this is the semi final, the next drawn round will be used for the final round. The following procedures will apply
- i. The round in progress will be completed if ten or less (in the case of semi finals) or six or less (in the case of finals) teams remain to jump. All scores for this round will count.
 - ii. The round in progress will be performed by only the ten (in the case of semi finals) or six (in the case of finals) highest placed teams if more than ten (in the case of semi finals) or six (in the case of finals) teams remain to jump. The scores of any other teams in this round will be discarded.
- 6.4.7. The competition will be organised during a maximum time frame of 5 competition days. Exceptions may be made where a bid is received for multiple FCE competitions at one time.

6.5. Medals and Diplomas are awarded as follows:

- All team members in the events will be awarded medals if placed First, Second or Third.
- Diplomas are awarded to all competitors that are placed First to Tenth.

7. Definitions of Symbols

7.1. Coding in the Dive Pool annexes is as follows:

7.1.1

Indicates direction of turn by the subgroup



7.1.2

Indicates turn by the subgroup in either direction



7.1.3

Indicates turns by all subgroups

**7.1.4**

Indicates clarification of intent

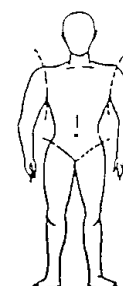
**7.1.5**

Any side-body link-up requires an arm grip and a leg grip on the same person.

**7.2.** Visualisation for grip positions, ref 2.2.

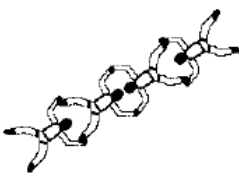
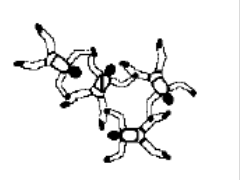
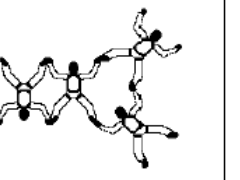
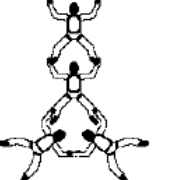
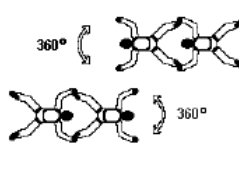
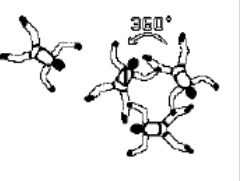
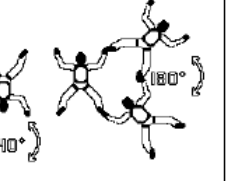
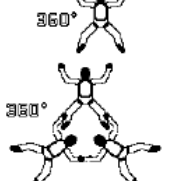
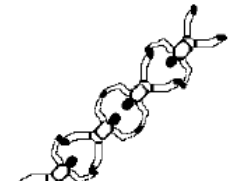
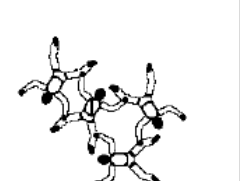
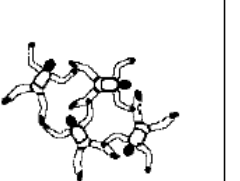
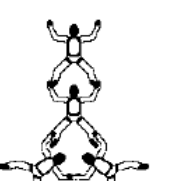
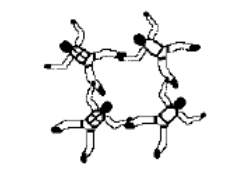
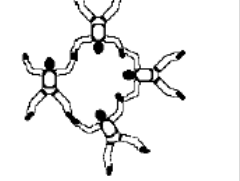
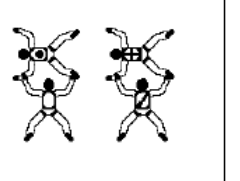
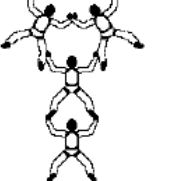
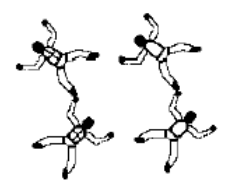
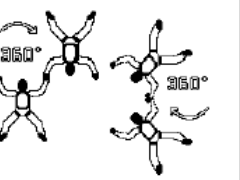
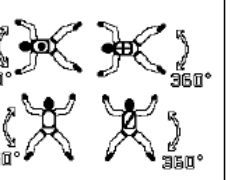
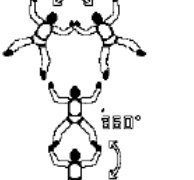
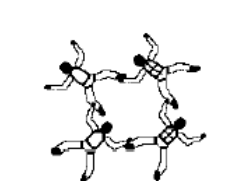
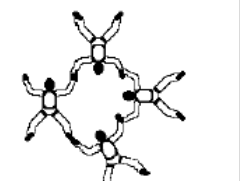
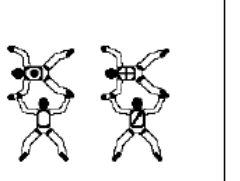
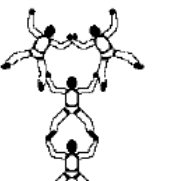
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LEG:

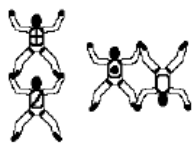
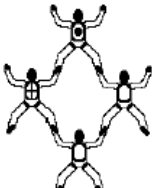
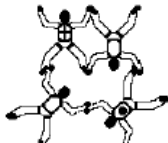
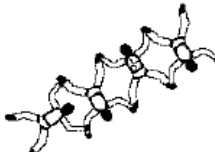

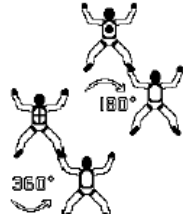
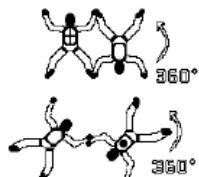
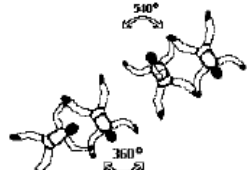
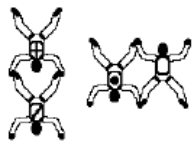
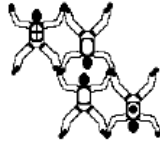
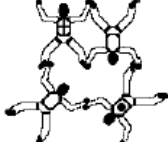
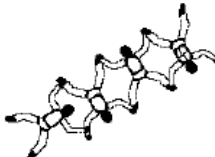
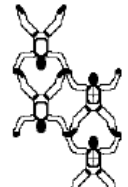
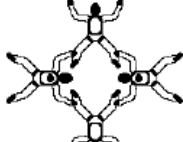
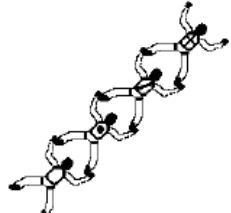

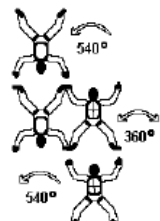
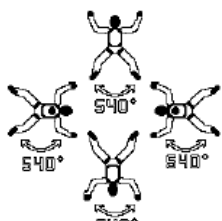
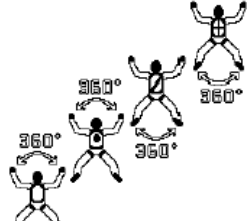
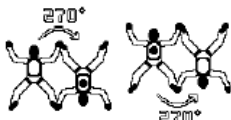
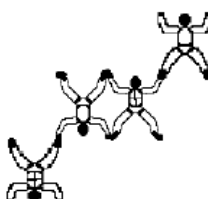
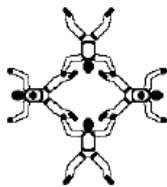
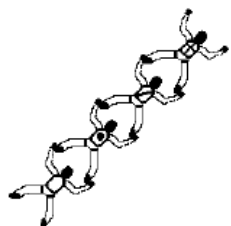
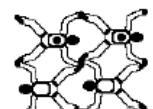
**ADDENDA A AND B**

- Addendum A: Formation Skydiving 4-Way Block Pool 2013
- Addendum B: Formation Skydiving 4-Way Random Pool 2013
- Addendum C: Formation Skydiving 8-Way Block Pool 2013
- Addendum D: Formation Skydiving 8-Way Random Pool 2013

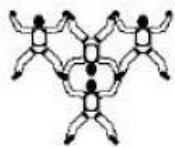

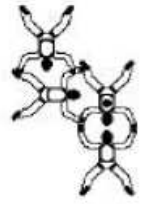
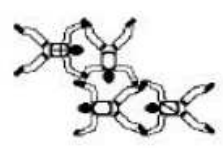
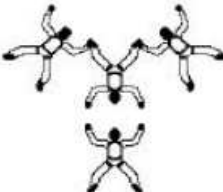
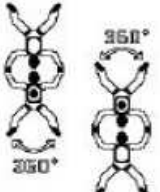
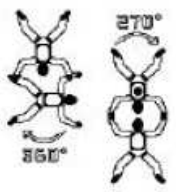
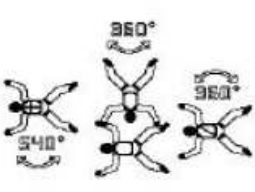
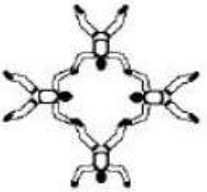

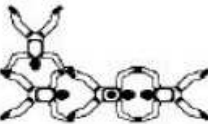
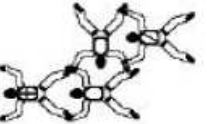
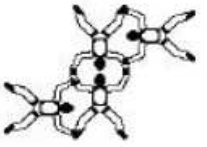
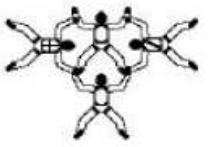
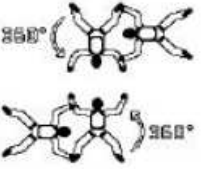
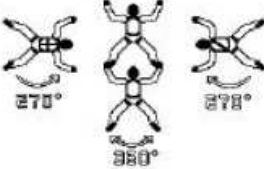

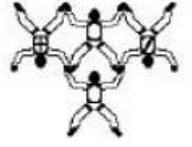
ADDENDUM – A**Formation Skydiving 4-Way Pool 2013****4-Way Open Blocks 1 - 8**

1  Snowflake	2  Sidebody Donut	3  Side Flake Opal	4  Monopod
 (INTER)	 (INTER)	 (INTER)	 (INTER)
 Snowflake	 Side Flake Donut	 Turf	 Monopod
5  Opal	6  Stardian	7  Sidebuddies	8  Canadian Tee
 (INTER)	 (INTER)	 (INTER)	 (INTER)
 Opal	 Stardian	 Sidebuddies	 Canadian Tee

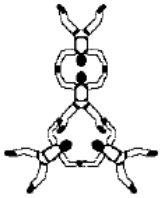
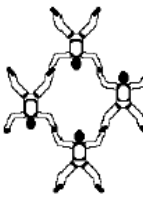
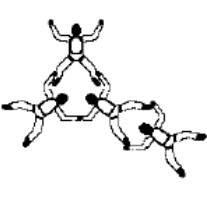
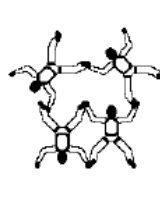
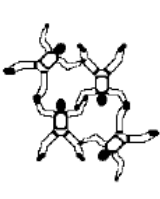
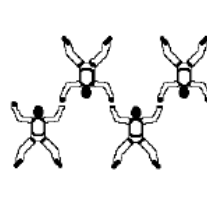
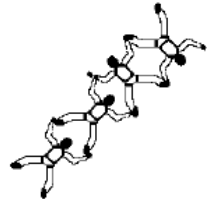
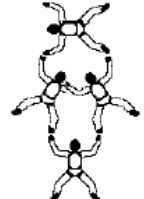
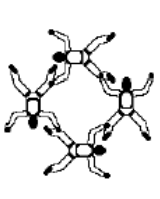
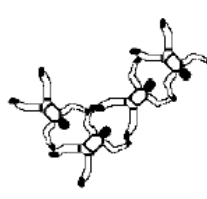
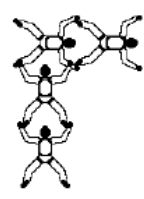
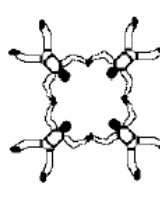
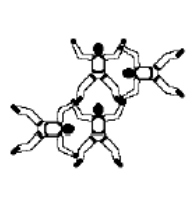
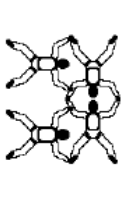
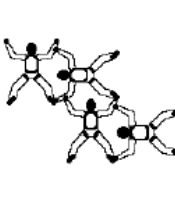
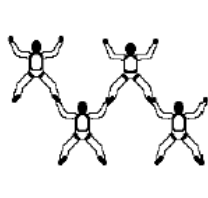
4-Way Open Blocks 9 - 16

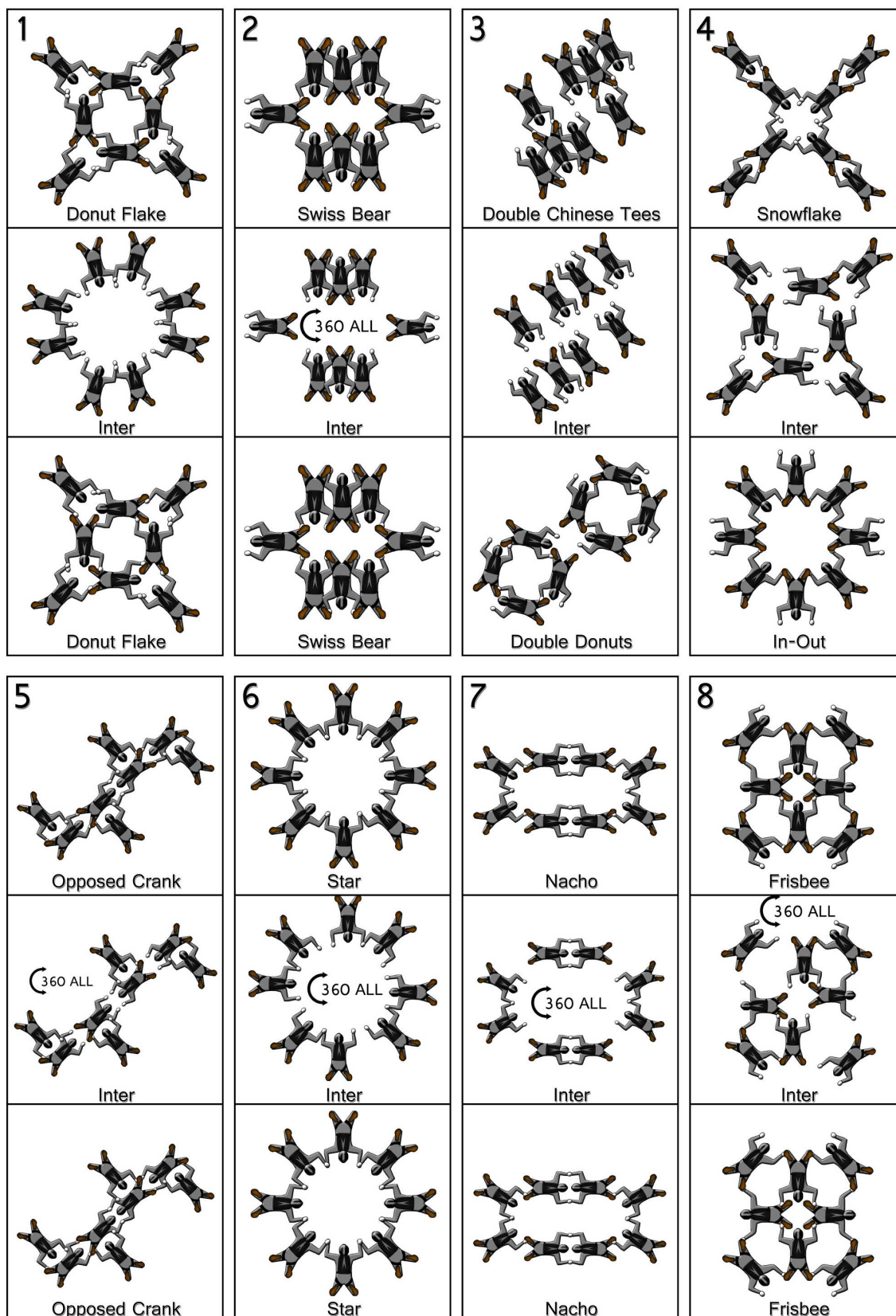
9	10	11	12
			
Cat+Accordian	Diamond	Photon	Bundy
			
(INTER)	(INTER)	(INTER)	(INTER)
			
Cat+Accordian	Bunyip	Photon	Bundy
13	14	15	16
			
Offset	Bipole	Caterpillar	Compressed
			
(INTER)	(INTER)	(INTER)	(INTER)
			
Spinner	Bipole	Caterpillar	Box

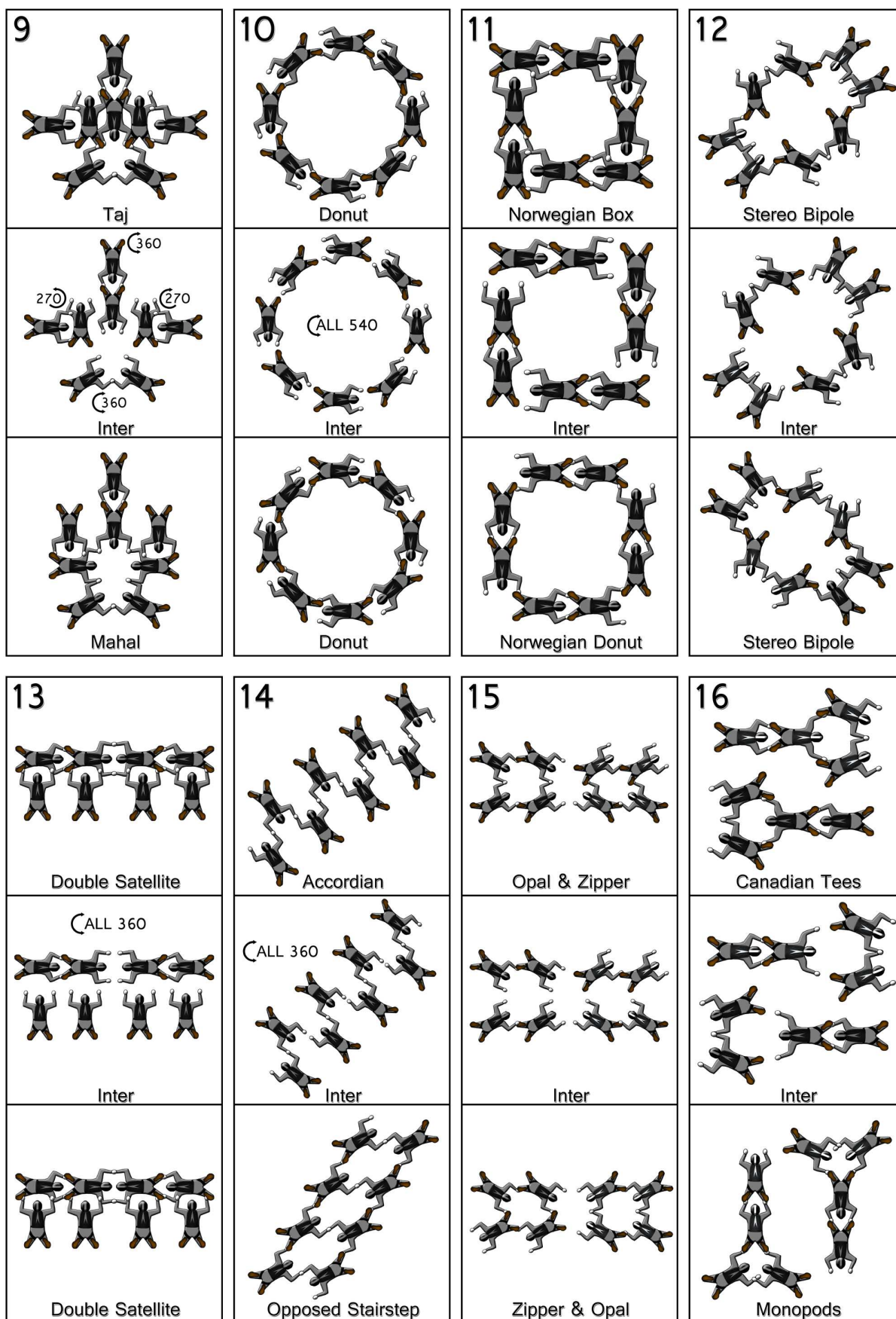
4-Way Open Blocks 17 - 22

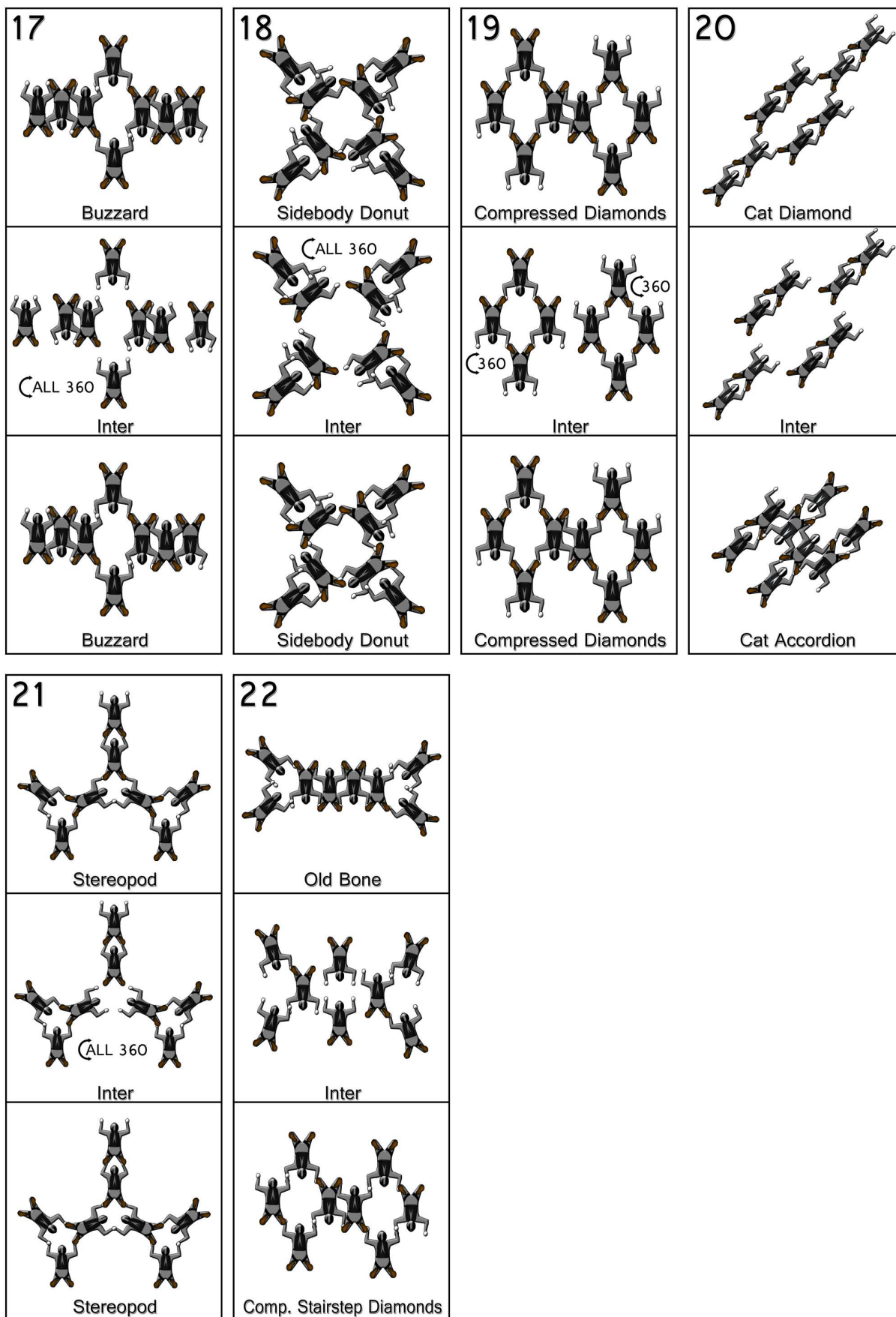
17  Danish Tee	18  Zircon	19  Ritz	20  Piver
 (INTER)	 (INTER)	 (INTER)	 (INTER)
 Murphy	 Zircon	 Icepick	 Viper
21  Zig Zag	22  Tee		
 (INTER)	 (INTER)		
 Marquis	 Chinese Tee		

ADDENDUM – B**Formation Skydiving 4-Way Random Pool 2013**



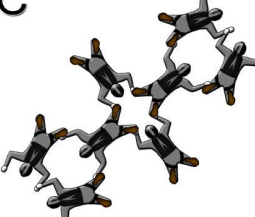

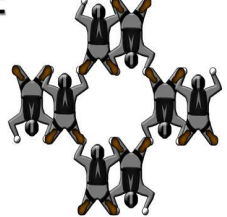
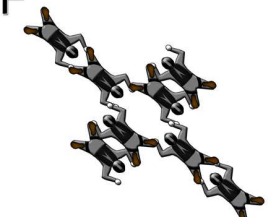



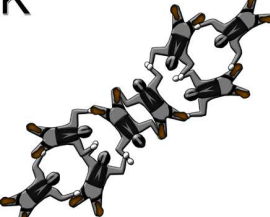
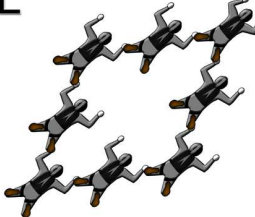


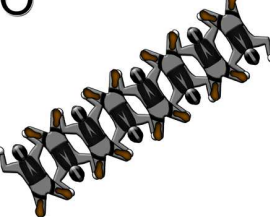


<p>A</p>  <p>Unipod</p>	<p>B</p>  <p>Stairstep Diamond</p>	<p>C</p>  <p>Murphy Flake</p>	<p>D</p>  <p>Yuan</p>
<p>E</p>  <p>Meeker</p>	<p>F</p>  <p>Open Accordion</p>	<p>G</p>  <p>Cataccord</p>	<p>H</p>  <p>Bow</p>
<p>J</p>  <p>Donut</p>	<p>K</p>  <p>Hook</p>	<p>L</p>  <p>Adder</p>	<p>M</p>  <p>Star</p>
<p>N</p>  <p>Crank</p>	<p>O</p>  <p>Satellite</p>	<p>P</p>  <p>Sidebody</p>	<p>Q</p>  <p>Phalanx</p>

ADDENDUM – C**Formation Skydiving 8-Way Block Pool 2013**





ADDENDUM – D**Formation Skydiving 8-Way Random Pool 2013**

A  Caterpillar	B  Stairstep	C  Hour Glass	D  Hope Diamond
E  Rubik	F  Diamond Flake	G  Arrowhead	H  Iriquois
J  Springbok	K  Crossbow	L  Open Facing Diamond	M  Double Spiders
N  Zipper Flake	O  Compressed Accordion	P  Venus	Q  Compass