



*Fédération  
Aéronautique  
Internationale*

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# COMPETITION RULES

For  
**Indoor Formation Skydiving  
and  
Indoor Vertical Formation Skydiving**

**2018 Edition**

Effective 1<sup>st</sup> March 2018

## **FEDERATION AERONAUTIQUE INTERNATIONALE**

**MSI - Avenue de Rhodanie 54 – CH-1007 Lausanne – Switzerland**

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- 1 FAI Statutes, .....Chapter 1, .....para 1.6
  - 2 FAI Sporting Code, Gen. Section, .....Chapter 4, .....para 4.1.2
  - 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 By-Laws, .....Chapter 1, .....para 1.2.1
  - 6 FAI Statutes, .....Chapter 2, .....para 2.4.2.2.5
  - 7 FAI By-Laws, .....Chapter 1, .....paras 1.2.2 to 1.2.5
  - 8 FAI Statutes, .....Chapter 5, .....paras 5.1.1, 5.2, 5.2.3 and 5.2.3.3
  - 9 FAI Sporting Code, Gen. Section, .....Chapter 4, .....para 4.1.5
  - 10 FAI Sporting Code, Gen. Section, .....Chapter 2, .....para 2.2.
  - 11 FAI Statutes, .....Chapter 5, .....para 5.2.3.3.7
  - 12 FAI Statutes, .....Chapter 6, .....para 6.1.2.1.3

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This document takes effect on 1<sup>st</sup> of March 2018.

The 2016 Edition differs from the 2016 Edition in those paragraphs with a vertical bar in the margin.

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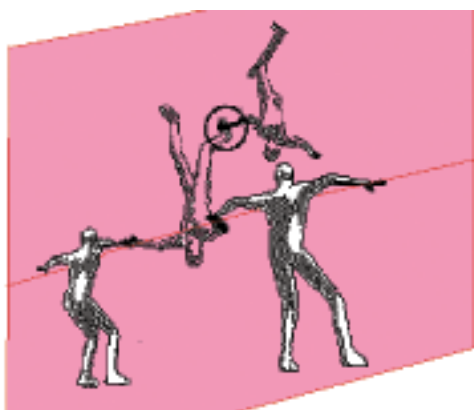
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## 1. FAI Authority

- 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 competitors linked by grips. For VFS with each competitor in the correct orientation.
- 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. Grip line: This is the line linking the torsos of two competitors via their arms or legs and feet and the grip that joins them.
- 2.3.1 For VFS Clarification regarding random M) and O) – There is an imaginary vertical plane passing through the handgrips, with outside competitors having hand grips on one side of the vertical plane and the competitor taking the leg grip on the other side of the vertical plane. No grip line may cross the vertical plane within the formation.



- 2.4. Body: consists of the entire competitor and his or her equipment.
- 2.5. Dive Pool: consists of the Random Formations and Block Sequences depicted in the addenda to these rules.
- 2.6. Subgroup: is an individual competitor or competitors linked by grips required to complete a designated manoeuvre during the inter of a block sequence.
- 2.7. 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 competitors linked by grips.
  2. The geometric centre of an individual competitor's torso.

- 2.8.** Total Separation: is when all competitors show at one point in time that they have released all their grips and no part of their arms have contact with another competitor's body.
- 2.9.** Inter: is an intermediate requirement within a block sequence, which must be performed as depicted in the dive pools.
- 2.10.** Sequence: is a series of random formations and block sequences which are designated to be performed.
- 2.11.** Scoring formation: is a formation which is not an infringement and 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 entry, must be preceded by a correctly completed and clearly presented total separation or inter, as appropriate.
- 2.12.** 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.
- 2.13.** 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.
  3. If both the inter and the second formation in a block sequence are omitted, this will be considered as only one omission.
- 2.14.** Entrance: Teams must enter the tunnel using the designated doorway. The working time will start when both feet of any team member leave the antechamber floor and the team member enters the tunnel. Team members may lean into the air flow with one foot inside the tunnel without the working time starting as long as one foot remains on the floor of the antechamber and any foot inside the tunnel does not use the net for launch.
- For VFS Entrance: Teams must enter the tunnel and staying stand up on the net in center of the airflow. The working time will start when both feet of any team member leave the net.
- 2.15.** Working Time: is the period of time during which teams are scored on a performance which starts when both feet of any team member have left the antechamber floor (tunnel net for VFS) in order to enter the tunnel and terminates a number of seconds later as specified in 3.1.
- 2.16.** Antechamber: the area used by teams as a waiting and staging area for entrance into the wind tunnel. This chamber is separated from the public viewing area and is for the exclusive use of the teams on call.
- 2.17.** NV: No Video – no video image is available for judging purposes.
- 2.18.** Judgement Call: An assessment by the judges of a formation, infringement or omission



that is not unanimous.

**2.19.** Orientation:

- 2.19.1. "Head Down" orientation requires that the competitor's torso is approximately vertical with the head down, towards the ground.
- 2.19.2. "Head Up" orientation requires that the competitor's torso is approximately vertical with the head up, towards the sky.
- 2.19.3. "Bellyflying" or "Belly to Earth" orientation requires that the competitor's torso is in a horizontal (prone) position, with the front of the torso toward the earth. ("Bellyflying" is not currently used in VFS formations)
- 2.19.4. "Backflying" orientation requires that the competitor's torso is in a horizontal (prone) position, with the back of the torso toward the earth. ("Backflying" is not currently used in VFS formations).

### **3. The Events**

**3.1.** Event Description: 4-Way Indoor Formation Skydiving and Vertical Formation Skydiving  
Event: Working time is 35 seconds.

**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 to determine the final placings:
  - i. one tie break round, if possible (for the first three placings 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 formation scored without infringement by both teams in the last completed round. Starting time must be that used for original evaluation of the performance.

**3.3** Performance Requirements

- 3.3.1 Each round consists of a sequence of formations, depicted in the dive pools of the appropriate addendum, 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. For VFS mirror images are only permitted when set in a vertical plane.
- 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 competitors in that subgroup.
- 3.3.8 Assisting handholds on other bodies in a scoring formation are not permitted.
- 3.3.9 Handholds by the competitor on their own body within a subgroup or a scoring formation are permitted.
- 3.3.10 For VFS no grip line (ref. 2.3) may cross another grip line within a formation.

## 4. General Rules

### 4.1. Composition of Teams

Teams may consist of competitors of either or both sexes, except in the female event where all competitors must be female.

### 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 addenda will be singularly placed in one container. Individual withdrawal from the container, (without replacement) will determine the sequences to be flown in each round. Each round will be drawn so as to consist of five or six scoring formations, whichever number is reached first. A computer generated draw is

also acceptable

- 4.2.3 Use of Dive Pool: Each block or formation will be drawn for the scheduled rounds of each competition. In the event that additional rounds are necessary, due to the tie-breaking "fly-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. Practice jumps or Wind tunnel time

Competitors are not allowed to make a parachute jump of any kind nor use a wind tunnel for practice after the draw has been made.

#### 4.4. Performance Order

- 4.4.1 The performance order for the first competition round of each event will be in the reverse order of the first ten placings in that event at the most recent IPC sanctioned World Indoor Parachuting Championships of the relevant Event. 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 order of performance in reverse order of placing shall be implemented after every break in the competition which occurs after a completed round where practical.

#### 4.5. Video Recording

- 4.5.1. Video evidence is required to judge each performance and to show the team's performance to third parties.
- 4.5.2. A Video Controller will be appointed by the Chief Judge prior to the start of the judges' conference. The Video Controller is responsible for the functionality of the video equipment to ensure it is usable for the competition.
- 4.5.3. For the purpose of these rules, « video equipment » refers to the equipment installed in the wind tunnel by the organizer specifically for the competition. No other video equipment will be used for judging.
- 4.5.4. The video equipment will be placed in the wind tunnel in such a location as to ensure that all members of the team are visible. The location and field of vision must be approved by the Chief Judge and the FAI Controller.
- 4.5.5. The recording (camera), playback, and all auxiliary equipment must be full High Definition input and full High Definition output and must provide viewing for the judges.
- 4.5.6 The Organizer must provide teams with a way of identification linking the team number with the video of the performance.

#### **4.6. Scoring**

- 4.6.1. A team will score one point for each scoring formation performed in the sequence within the allowed Working Time of each round. Teams may continue scoring by continually repeating the sequence.
- 4.6.2. For each omission three points will be deducted from the aggregate points scored in accordance with 4.6.1.
- 4.6.3. 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.
- 4.6.4. The minimum score for any round is zero (0) points.

#### **4.7. Re-performances**

- 4.7.1. Where the video evidence is considered insufficient for judging purposes, a re-performance 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 re-performance will be granted and the team will receive the minimum score for that performance.
- 4.7.2. Contact or other means of interference between team members and between team members and the floor screen or the tunnel walls shall not be grounds for the team to request a re-performance.
- 4.7.3. Problems with a competitor's equipment shall not be grounds for the team to request a re-performance. A team that flies out of the range of the camera (too high) will not be granted a re-performance.

#### **4.8. Training Performances**

- 4.8.1. Each team in each event will be given the option of one official training performance before the draw is made to determine appropriate speed settings.
- 4.8.2. The wind tunnel configuration used for the competition will also be used for the official training performance.

<h2><b>5. Judging</b></h2>
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#### **5.1. Judging Procedure**

The performances will be judged using video evidence.

#### **5.2. Number of Judges**

A minimum of three (3) judges must evaluate each team's performance.

### 5.3. Viewings/Review of the Video Evidence

The Judges will watch the video evidence of each performance (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 performance will be conducted at normal or reduced speed between 50-90 percent of normal speed. At the request of the Event Judge a (3rd) third view of part(s) of the performance 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.

5.3.1. 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 performance in question be reviewed at reduced speed in accordance with 5.3. If the review results in a unanimous decision by the Judges on the part(s) of the performance in question, the score for the performance will be adjusted accordingly. Only one review is permitted for each performance.

### 5.4. Evaluation

The Judges will use an electronic scoring system to record their evaluation of the performance. At the end of working time, freeze-frame will be applied on each viewing, based on the timing taken from the first viewing only. 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.

### 5.5. A majority of Judges must agree in the evaluation in order to;

- credit the scoring formation, or
- assign an infringement, or
- assign an omission, or
- determine an NV situation.

### 5.6. Start of Working Time

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 2.15.

## 6. Rules Specific to the Competition

### 6.1. Title of the Competition: “\_\_\_th FAI World/Continental Indoor Skydiving Championships” or “\_\_\_th World Cup of Indoor Skydiving”.

## **6.2.** Aims of World/Continental Championships and World Cups

- 6.2.1. To determine World/Continental Champions or World Cup Winners of Indoor Formation Skydiving and Indoor Vertical Formation Skydiving in the:
  - 4-Way FS Event,
  - 4-Way FS Female Event
  - 4-Way VFS Event
  - 4-Way FS Junior Event
  - 4-Way VFS Junior Event
- 6.2.2. and
  - To determine the world standings of the competing teams,
  - To establish Indoor Formation Skydiving and Indoor Vertical Formation Skydiving world records,
  - To promote and develop Indoor Formation Skydiving and Indoor Vertical Formation Skydiving,
  - To present a visually attractive image of the competition performances and standings (scores) for competitors, spectators and media,
  - To exchange ideas and strengthen friendly relations between the sport indoor fliers, 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,
  - Team Coaches
- 6.3.2. At a World/Continental Championship:
  - One 4-Way team consisting of up to:
  - Five (5) 4-Way FS Competitors
  - One female 4-Way FS team consisting of up to:
  - Five (5) female 4-Way Competitors
  - Five (5) 4-Way VFS Competitors
  - Five (5) Junior 4-Way FS Competitors
  - Five (5) Junior 4-Way VFS 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 at the time of the bid.
- 6.3.4. No Competitor may compete in both the FS 4-Way Open event and the FS Female 4-Way event but may participate in one FS team and one VFS team.
- 6.3.5. Any Competitor that competes in two different events must be listed separately on the entry form for each event.
- 6.3.6. Junior competitors over the age of 15 or whose 15<sup>th</sup> birthday occurs during the calendar year in which the competition takes place may, if they choose, enter an open category event.

**6.4.** Program of Events:

6.4.1. The World/Continental Championships or World Cup is comprised of:

Indoor Formation Skydiving:

- Up to 10 rounds open.
- Up to 8 rounds junior.

Indoor Vertical Formation Skydiving:

- Up to 10 rounds.

6.4.2. Time must be reserved before the end of competition to allow for the completion of the tie break round.

6.4.3. The competition will be organised during a maximum time frame of 3 competition days. Exceptions may be made where a bid is received for multiple FCE competitions at one time.

6.4.4. Where possible, junior events are to be run at a separate time to open events e.g. morning vs afternoon.

**6.5.** Medals are awarded as follows:

- All team members in the events will be awarded medals if placed First, Second or Third.

## 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

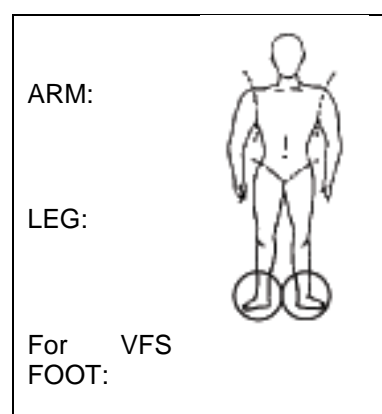


### 7.1.5

Indicates clarification of intent



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



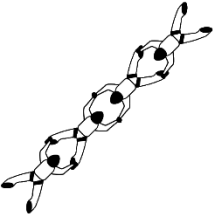

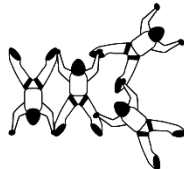
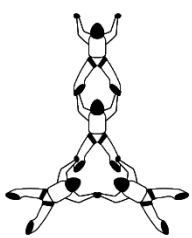
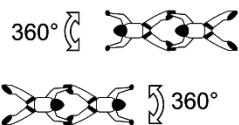
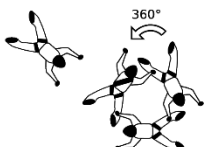
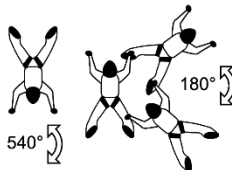
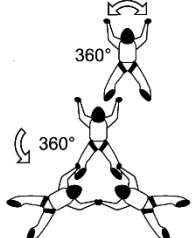
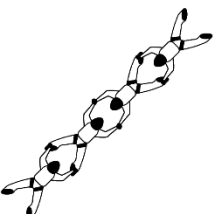
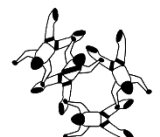
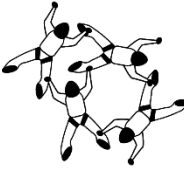
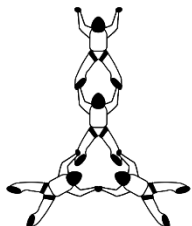
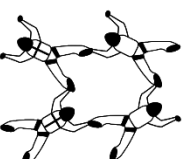
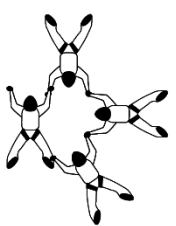
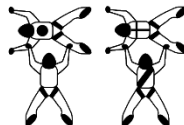
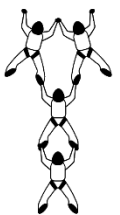
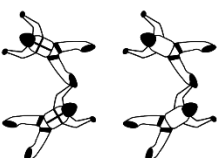
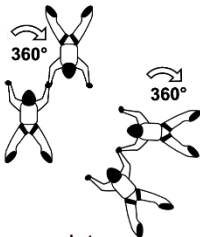
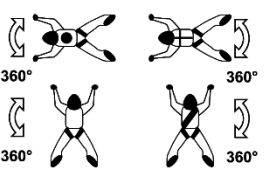
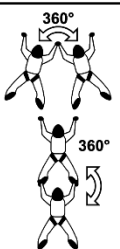

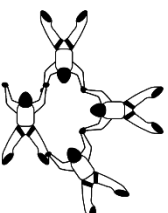
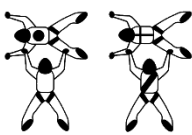
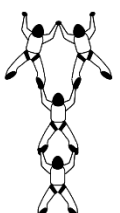


## ADDENDA

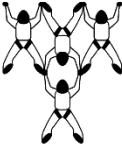

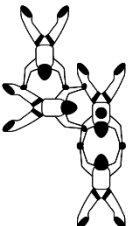
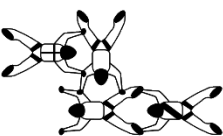
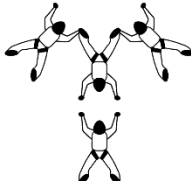
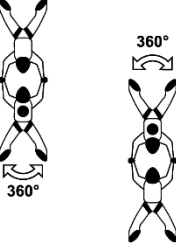
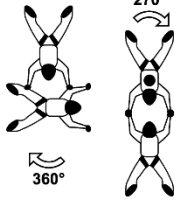
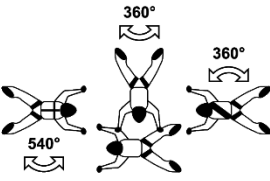
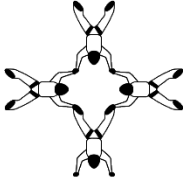

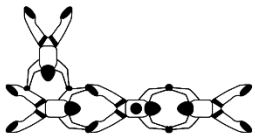
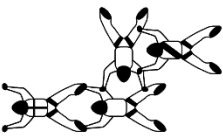
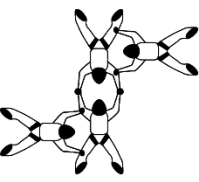
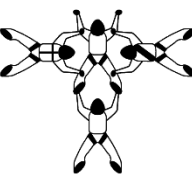
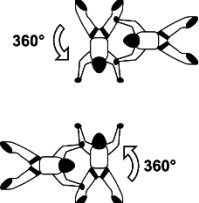
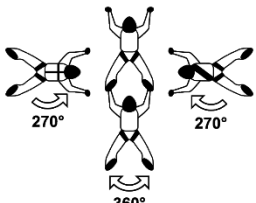

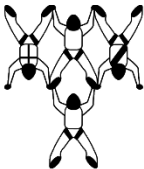
- Addendum A: Current Formation Skydiving 4-Way Block Pool
- Addendum B: Current Formation Skydiving 4-Way Random Pool
- Addendum C: IPC FS Dive Pool Adjusted for Tunnel Sizes
- Addendum D: Current Indoor Vertical Formation Skydiving 4-Way Block Pool
- Addendum E: Current Indoor Vertical Formation Skydiving 4-Way Random Pool

## ADDENDUM – A

### Current Formation Skydiving 4-Way Block Pool

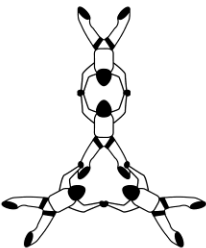
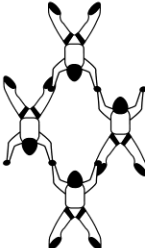
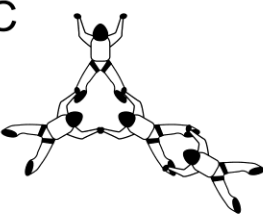
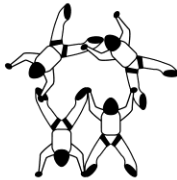
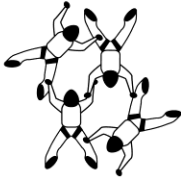
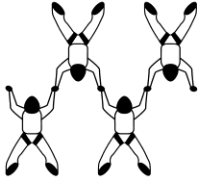
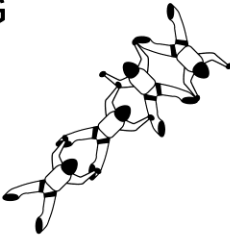
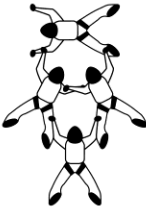
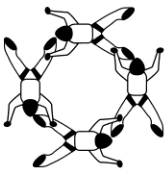
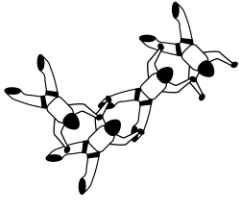
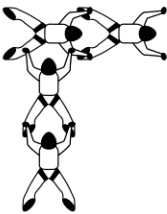
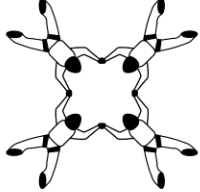
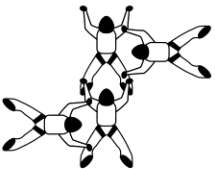
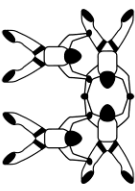
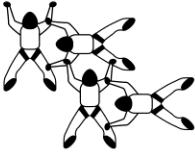
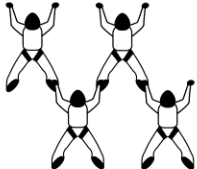
1  Snowflake	2  Sidebody Donut	3  Side Flake Opal	4  Monopod
 Inter	 Inter	 Inter	 Inter
 Snowflake	 Side Flake Donut	 Turf	 Monopod
5  Opal	6  Stardian	7  Sidebuddies	8  Canadian Tee
 Inter	 Inter	 Inter	 Inter
 Opal	 Stardian	 Sidebuddies	 Canadian Tee

<p>9</p> <p>Cat+Accordian</p>	<p>10</p> <p>Diamond</p>	<p>11</p> <p>Photon</p>	<p>12</p> <p>Bundy</p>
<p>Inter</p>	<p>Inter</p>	<p>Inter</p>	<p>Inter</p>
<p>Cat+Accordian</p>	<p>Bunyip</p>	<p>Photon</p>	<p>Bundy</p>
<p>13</p> <p>Offset</p>	<p>14</p> <p>Bipole</p>	<p>15</p> <p>Caterpillar</p>	<p>16</p> <p>Compressed</p>
<p>Inter</p>	<p>Inter</p>	<p>Inter</p>	<p>Inter</p>
<p>Spinner</p>	<p>Bipole</p>	<p>Caterpillar</p>	<p>Box</p>

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

### Current Formation Skydiving 4-Way Random Pool

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

## ADDENDUM – C

### IPC FS Dive Pool Adjusted for Tunnel Sizes

#### 12 Foot Tunnel

Category	Sequence	Random Formations	Blocks
Open	5 to 6	A - Q	3,5,6,7,9,11,14,15,16,17,18,21
Junior	4 to 5	A - Q	6,7,9,11,14,15,18,21

#### 14 Foot Tunnel

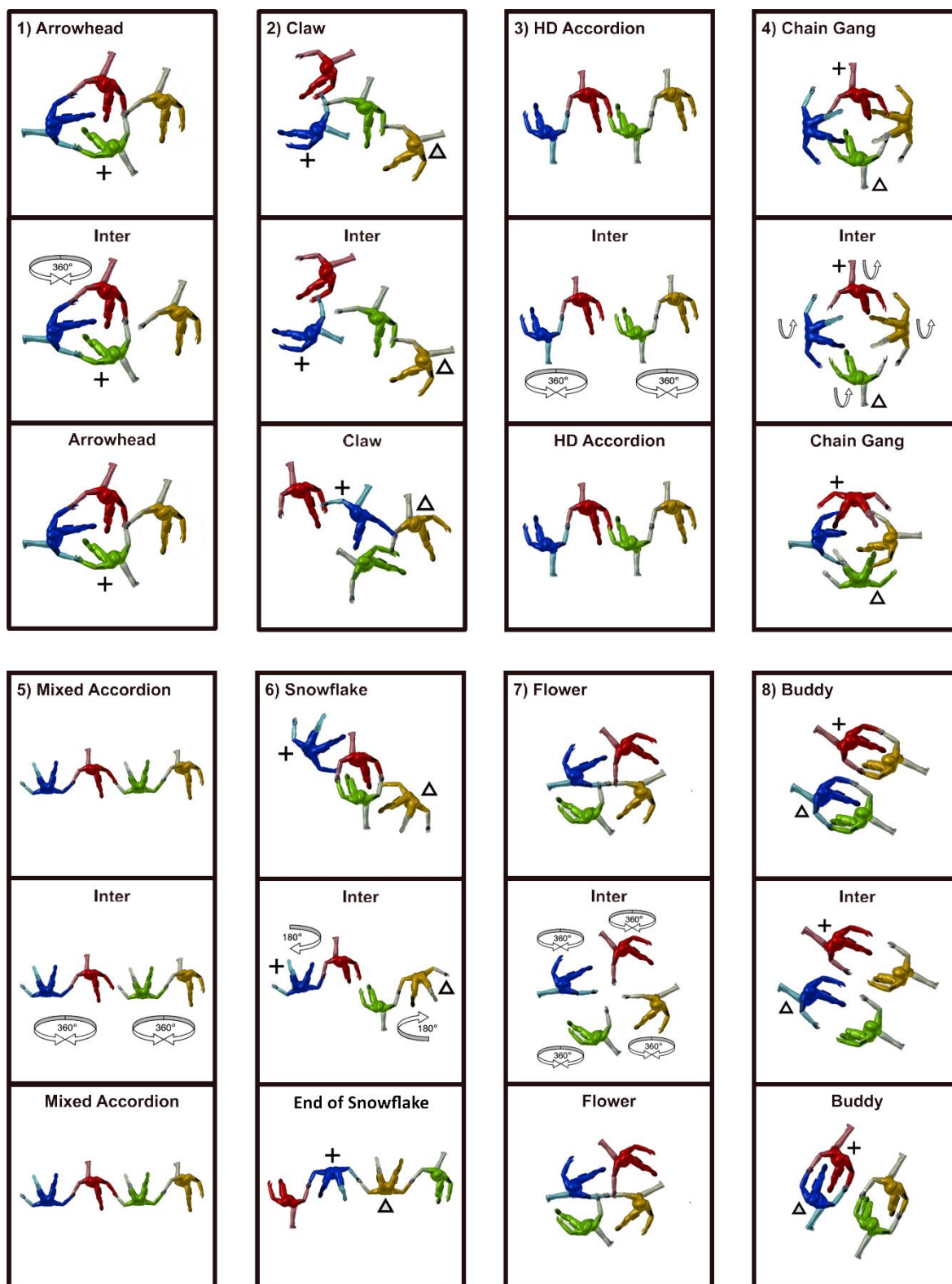
Category	Sequence	Random Formations	Blocks
Open	5 to 6	A - Q	All Blocks except Blocks 1 and 13
Junior	4 to 5	A - Q	2,4,6,7,8,9,11,14,15,18,19,20,21,22

#### 16 Foot Tunnel or bigger

Category	Sequence	Random Formations	Blocks
Open	5 to 6	A - Q	All 22 Blocks
Junior	4 to 5	A - Q	1,2,4,6,7,8,9,11,13,14,15,18,19,20,21,22

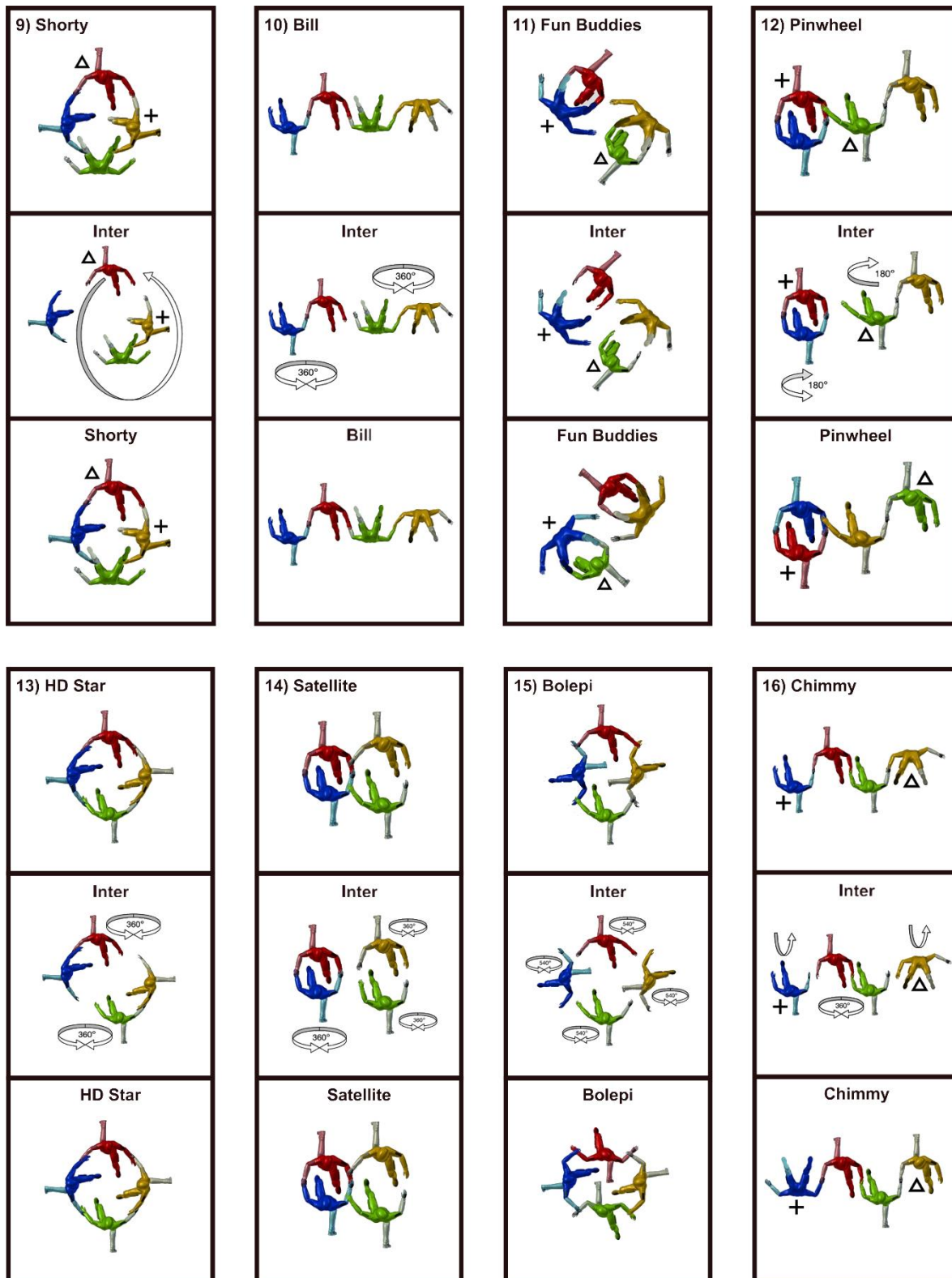
## ADDENDUM – D

### Current Vertical Formation Skydiving 4-Way Block Pool



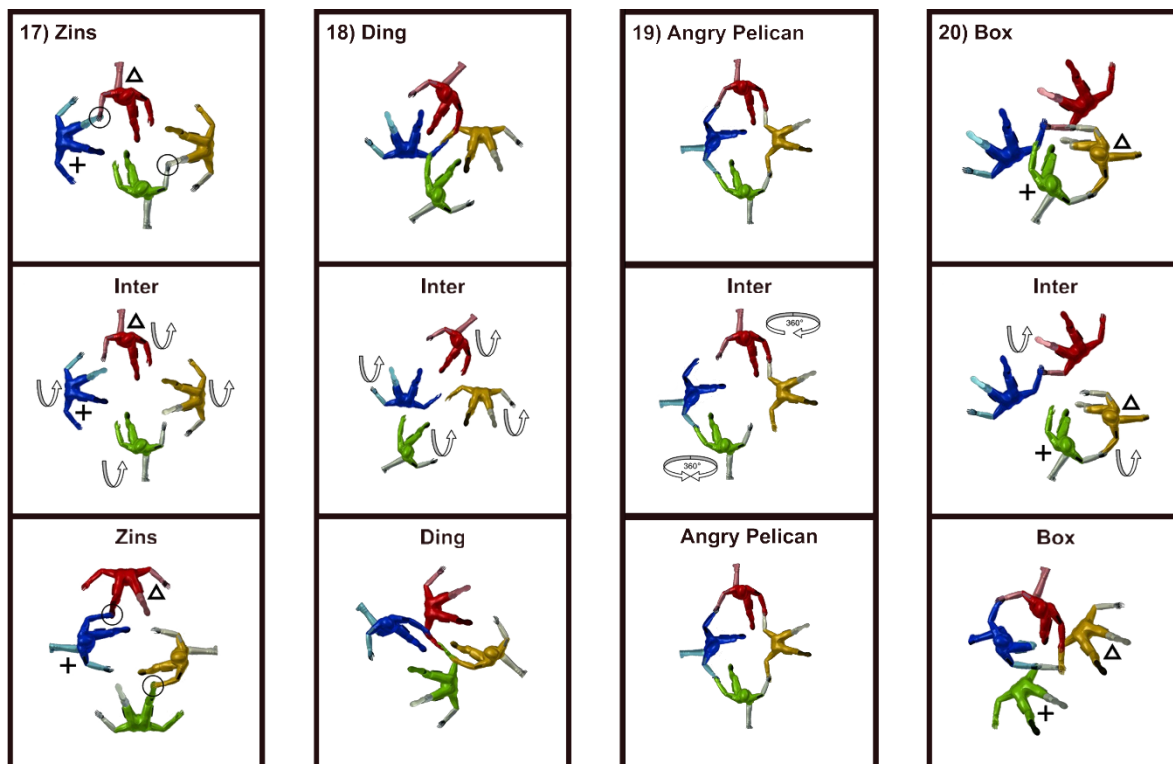
 Images Courtesy of International Bodyflight Association



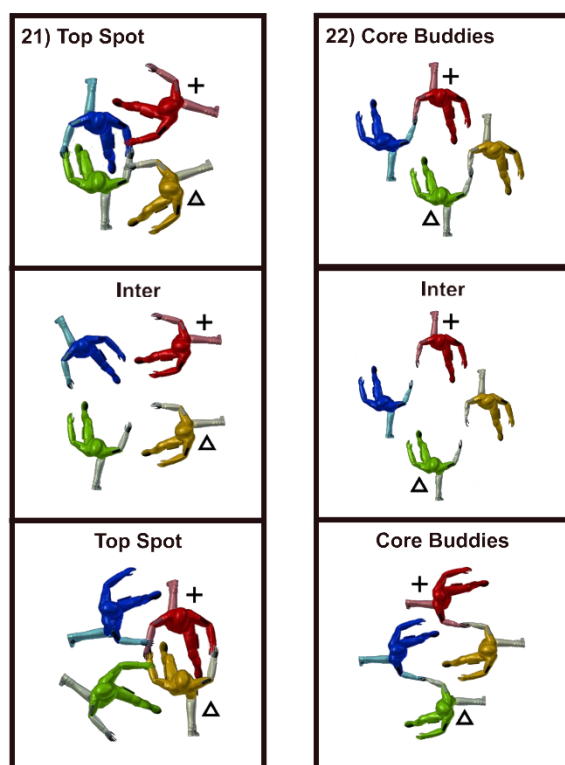


 Images Courtesy of International Bodyflight Association





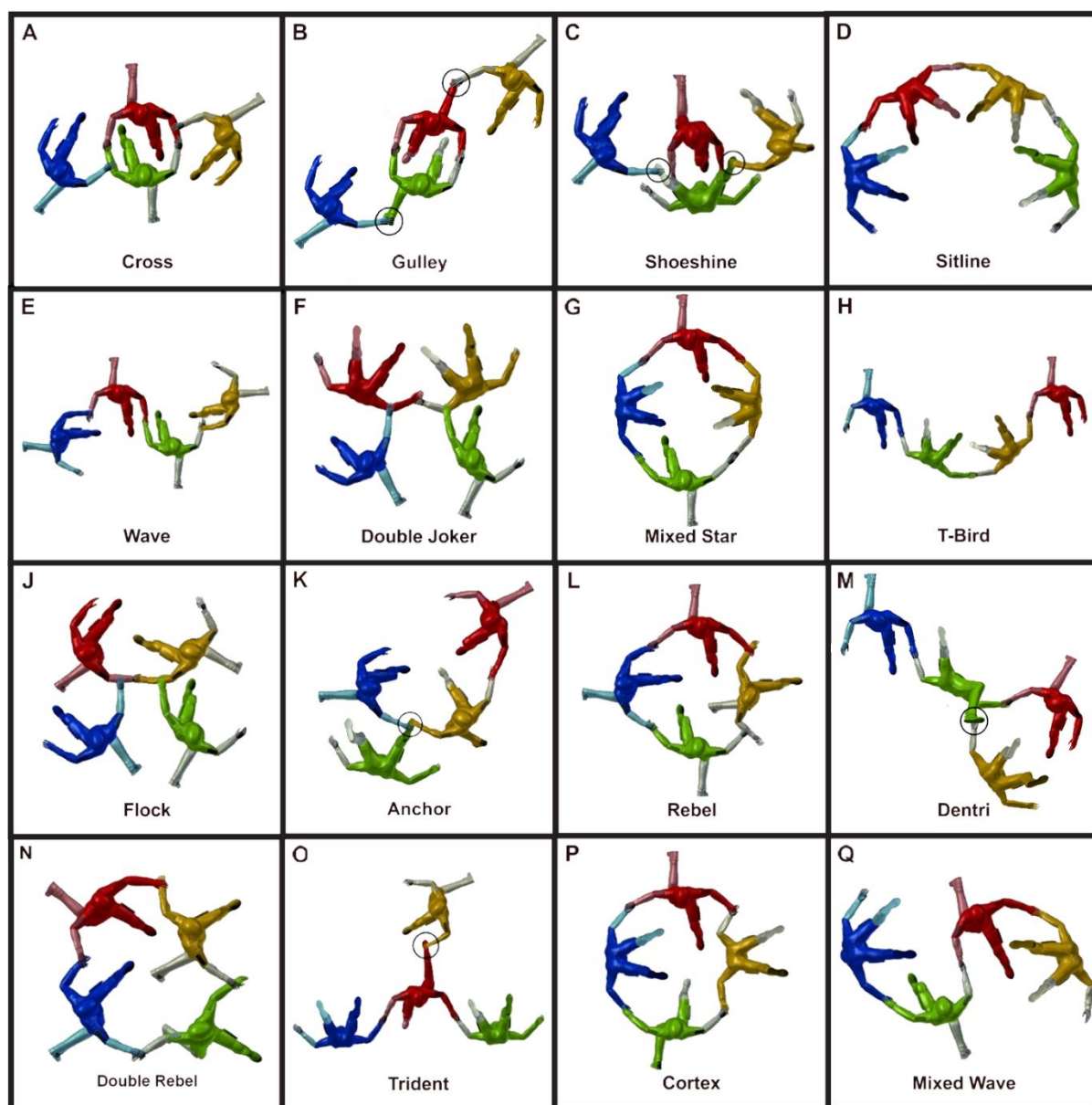
Note: A circle denotes a foot grip (ref. Competition rules 2.2)



 Images Courtesy of International Bodyflight Association

## ADDENDUM – E

### Current Vertical Formation Skydiving 4-Way Random Pool



Note: A circle denotes a foot grip (ref. Competition rules 2.2)



images courtesy of International Bodyflight Association