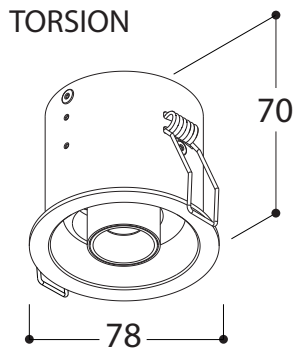
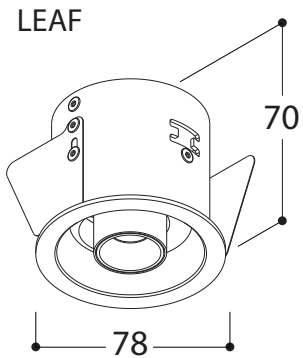


|      |                                  |
|------|----------------------------------|
| name | NOBEL SFEROS EVO                 |
| ref  | ALL REFS SEE TABLE ON VERSO PAGE |

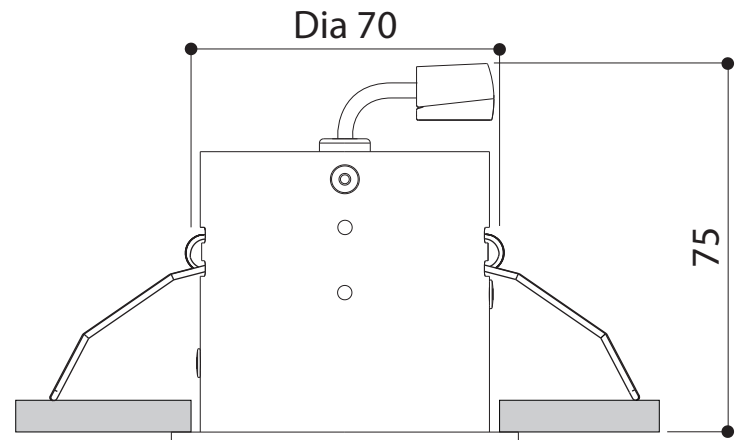


|                                 |                            |               |
|---------------------------------|----------------------------|---------------|
| safe distance to object         | - 0,1m -                   |               |
| lamp / (lum.flux) / (colortemp) | BRIDGELUX (476lm - 495lm)  | 2700K - 3000K |
| fitting                         | None                       |               |
| watt                            | 4,1W (Vf = 11,8V)          |               |
| voltage or current              | 350mA DC                   |               |
| symbol                          |                            |               |
| gear                            | Converter not incorporated |               |
| ip/class                        | IP20                       |               |
| application                     | Ceiling mounted            |               |
| orientability                   | 359° Rotating, 55° Tilting |               |
| dimmability                     | PWM or CCR dimmable        |               |
| weight                          | 0.3                        |               |
| beamangle                       | 15°/36°/50°                |               |
| CRI                             | 90                         |               |
| SDCM                            | 3                          |               |

FOR COMPATIBLE CONVERTERS SEE LEDCONVERTER MATRIX

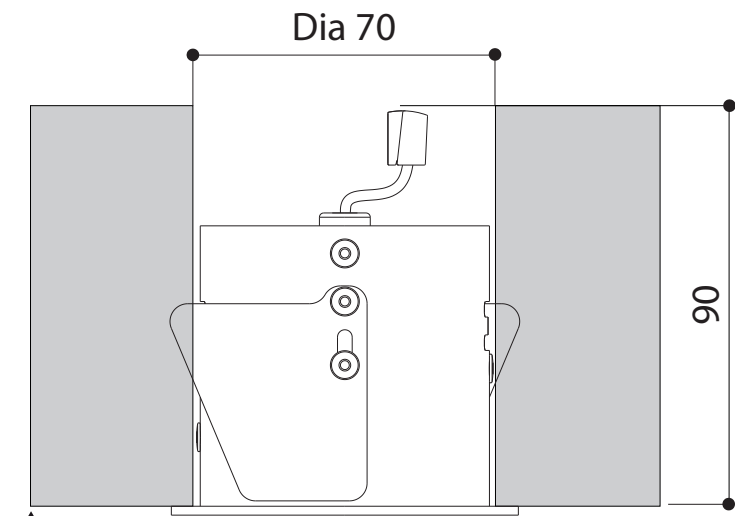
① MAKE HOLE :

Torsion (only for hollow ceilings) :

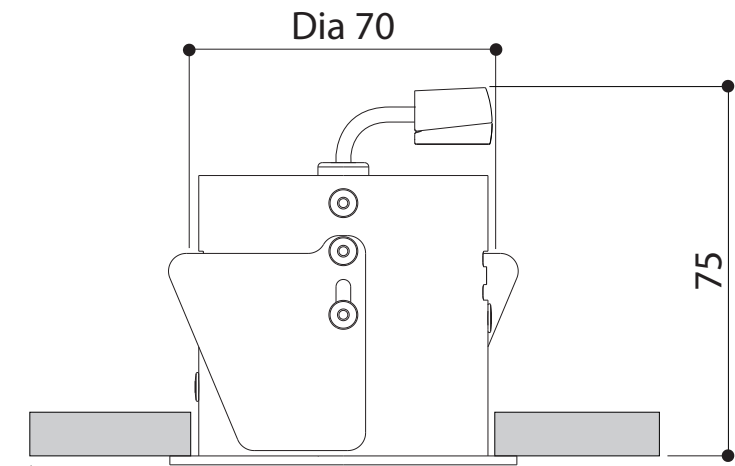


MIN. INSTALLATION DEPTH IN HOLLOW CEILINGS: 75mm  
MIN. CEILING THICKNESS: 1mm  
MAX. CEILING THICKNESS: 25mm

Leaf (for all ceiling types) :

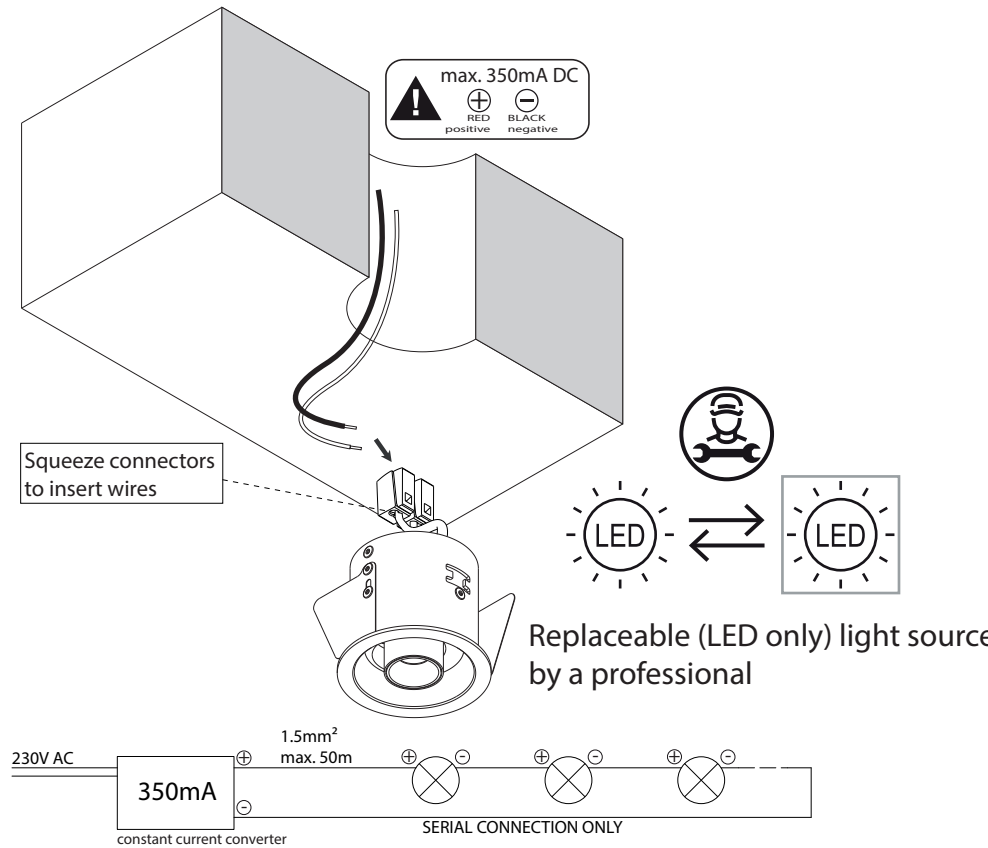


MIN. INSTALLATION DEPTH IN SOLID CEILINGS & LEAF: 90mm

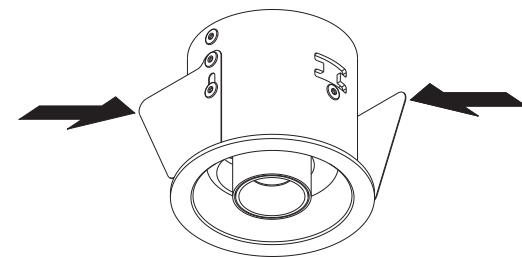


MIN. INSTALLATION DEPTH IN HOLLOW CEILINGS & LEAF: 75mm

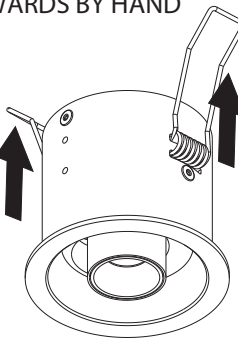
② MAKE CONNECTION WITH 2 TERMINAL BLOCKS



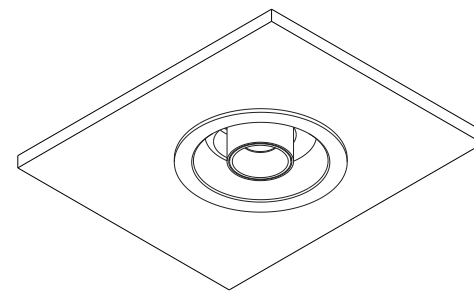
③ PUSH LUMINAIRE GENTLY INTO HOLE BY DEFORMING 2 LEAF SPRINGS INWARDS BY HAND



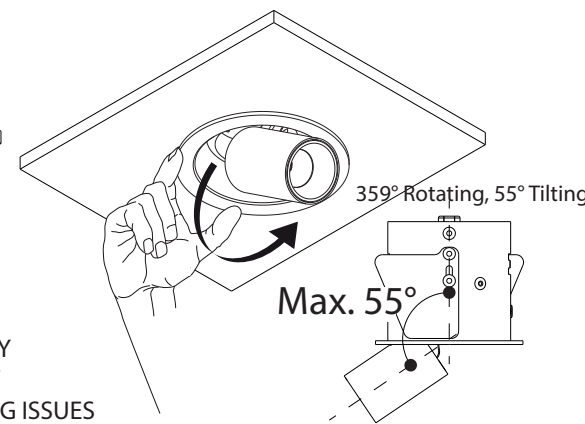
OR DEFORMING 2 TORSION SPRINGS UPWARDS BY HAND



④ SWITCH ON MAINS POWER SUPPLY



⑤ HOLD HOUSING TO ORIENT LEDMODULE



ALWAYS DISCONNECT MAINS POWER SUPPLY FROM CONVERTER BEFORE SWITCHING “ON” LED LUMINAIRES TO PREVENT HOT PLUGGING ISSUES

INSTALLATIE- EN ONDERHOUDSRICHTLIJNEN m.b.t. FABRIEKSGARANTIE.  
1. DE VERBINDINGEN EN HET UITTESTEN VAN DEZE TOESTELLEN DIENEN ALTIJD TE GEBEUREN DOOR EEN ERKENDE ELECTRO-INSTALLATEUR.  
2. DEZE VERLICHTINGSTOESTELLEN MOETEN GEïNSTALLEERD, VERBONDEN EN GETEST WORDEN VOLGENS DE NATIONAAL GELDENDE REGLEMENTEN OP DE ELECTRISCHE INSTALLATIES (BELGIË, A.R.E.I., DUITSLAND: DIN VDE 0100 TEIL 559 A2, ...; DEZE OPSOMMING IS LOUWER INFORMATIEF).  
3. DE TECHNISCHE BUSLUITER MOET GEZIEN WORDEN ALS ONDERDEEL VAN DE ALGEMENE VERKOOPVOORWAARDEN VAN TAL N.V.  
4. DE ELECTRO-INSTALLATEUR IS VERANTWOORDELIJK VOOR HET GEBRUIKEN VAN VOORSCHAKELAPPARATUUR DIE VOLDOET AAN DE GELDENDE CE EN EMC NORMEN.  
5. VERVANG DE LAMP (-EN) ALTIJD MET DE GROOTSTE ZORG, ZE IS (ZIJN) UITERST BREEKBAAR.  
6. OPGEPAST: PLAATS NOOIT DE LAMP MET BLOTE HANDEN, GEBRUIK ALTIJD EEN DOEK!

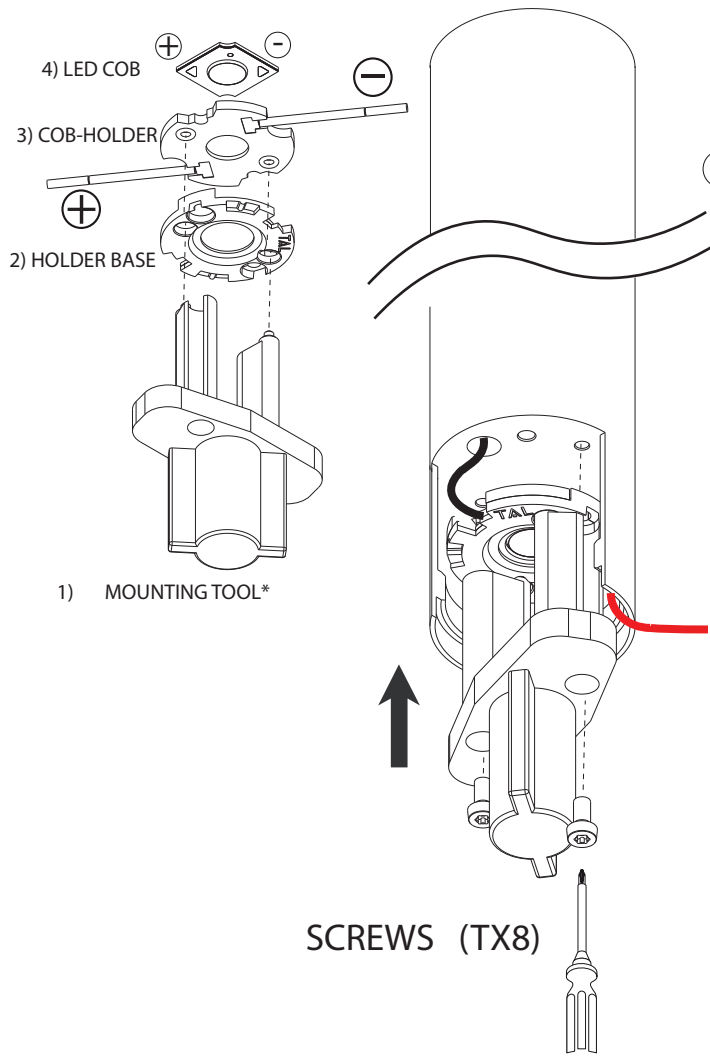
INSTRUCTIONS D'INSTALLATION ET D'ENTRETIEN A RESPECTER VIS-A-VIS DE LA GARANTIE.  
1. LE PLACEMENT, LE RACCORDEMENT ET L'ESSAI DE CET APPAREIL DOIVENT TOUJOURS ÊTRE EFFECTUÉS PAR UN INSTALLATEUR ELECTRICIEN AGRÉÉ.  
2. LES LUMINAIRES DOIVENT ÊTRE INSTALLÉS, BRANCHÉS ET TESTÉS SUIVANT LE RÈGLEMENT NATIONAL SUR LES INSTALLATIONS ELECTRIQUES EN VIGUEUR. (BELGIQUE, A.R.E.I., ALLEMAGNE: DIN VDE 0100 TEIL 559 A2, ...; CETTE ENUMERATION EST INDICATIVE)  
3. CE MANUEL D'INSTALLATION TECHNIQUE REPRÉSENTE UNE PARTIE DES CONDITIONS GÉNÉRALES DE VENTE DE TAL N.V.  
4. L'ELECTRO-INSTALLATEUR EST RESPONSABLE POUR L'USAGE DE BALLASTS, TRANSFO'S,...CONFORMES AUX NORMES CE ET EMC EN VIGUEUR.  
5. REMPLACEZ TOUJOURS L'AMPOULE (LES AMPOULES) AVEC PRUDENCE; ELLE(-S) EST (SONT) TRÈS FRAGILE (-S).  
6. ATTENTION: NE JAMAIS REMPLACER L'AMPOULE AUX MAINS NUES, UTILISEZ TOUJOURS UN CHIFFON!

INSTALLATION AND MAINTENANCE INSTRUCTIONS IN VIEW OF THE MANUFACTURER'S GUARANTEE.  
1. THE CONNECTION AND TESTING OF THE DEVICES SHOULD ALWAYS BE PERFORMED BY A RECOGNIZED ELECTRICIAN.  
2. THESE LIGHTING DEVICES NEED TO BE INSTALLED, CONNECTED AND TESTED FOLLOWING THE OFFICIAL NATIONAL INSTRUCTION GUIDE FOR ELECTRICAL INSTALLATIONS (BELGIUM, A.R.E.I., GERMANY: DIN VDE 0100 TEIL 559 A2, ...; THIS ENUMERATION IS JUST AN INDICATION)  
3. THIS TECHNICAL ENCLOSURE NEEDS TO BE ADDED TO THE GENERAL SALES CONDITION OF THE TAL N.V.  
4. THE ELECTRO TECHNICIAN IS RESPONSABLE TO USE BALLASTS, TRANSFORMERS,...WHICH MEET THE VALID CE AND EMC RULES.  
5. ALWAYS REPLACE THE LAMP (-S) WITH UTMOST CAUTIONSNESS, THE LAMP (-S) IS (ARE) VERY FRAGILE.  
6. ATTENTION: NEVER REPLACE THE LAMP WITH BARE HANDS, ALWAYS USE A CLOTH!

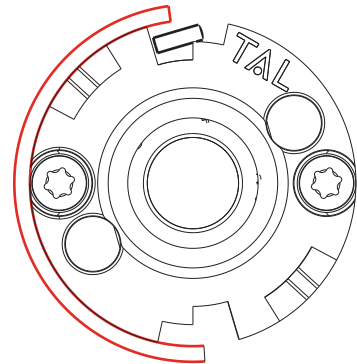
MONTAGE- UN UNTERHALT INSTRUCTIONEN ZU BEACHTEN MIT BEZUG AUF DER GARANTIE.  
1. DIE MONTAGE, DER ANSCHLUSS UND DAS AUSTESTEN DER LEUCHTEN SOLL IMMER VON EINEM ZUSTAENDIGEN ELECTRO-INSTALLATEUR AUSGEFUEHRT WERDEN.  
2. DIESE LEUCHTEN MUESSEN INSTALLIERT, ANGESCHLOSSEN UND GETESTET WERDEN NACH DER ALLGEMEINEN NAZIONALEN REGLEMENTATION UBER DIE ELEKTRISCHE INSTALLATIONEN (BELGIEN, A.R.E.I., DEUTSCHLAND: DIN VDE 0100 TEIL 559 A2, ...; DIESE AUFSTELLUNG GESCHICHT DURCH EXEMPLATIVEN TITEL UND KANN NICHT ALS LIMITATIV ODER EXHAUTIV BETRACHTET WERDEN).  
3. DIESE TECHNISCHE GEBRAUCHSANWEISUNG GEHORT ZU DEN ALLGEMEINEN VERKAUFSBEDINGUNGEN VON TAL N.V.  
4. DER ELEKTRO-INSTALLATEUR IST VERANTWORTLICH FUR DAS VERWENDEN VON CE UND EMC GEPRUEFTE VORSCHALTGERAETE.  
5. DIE LAMPE(-N) SOLL(-EN) IMMER SERH VORSICHTIG ERSAETZT WERDEN.  
6. VORSICHT: MAN DARF NIE DIE LAMPE MIT DEN NACKTEN HAENDEN BERUEHREN, MAN SOLL IMMER EINEN TUCH BENUTZEN!

EXCHANGE ACTIONS TO REPLACE LED-COB

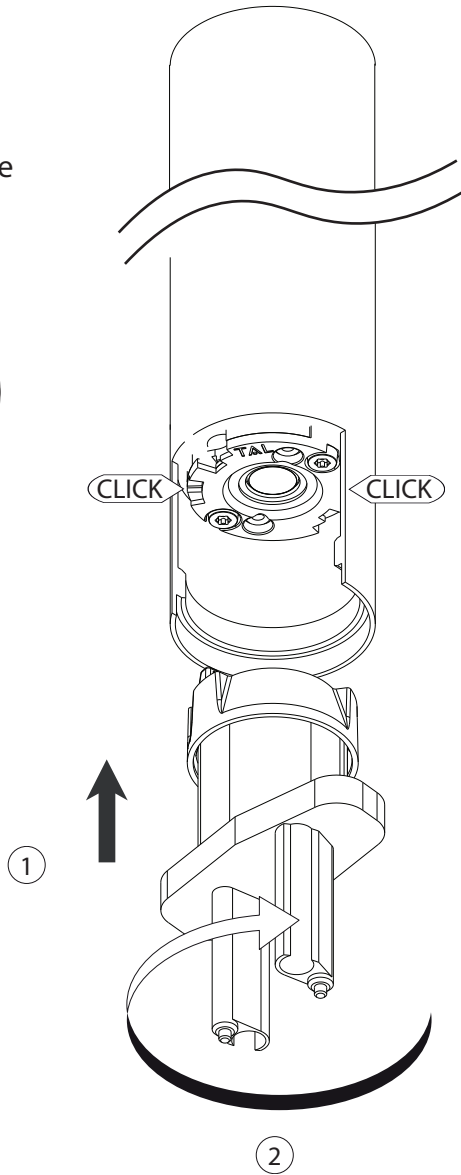
A Mounting led-parts into the lampfitting



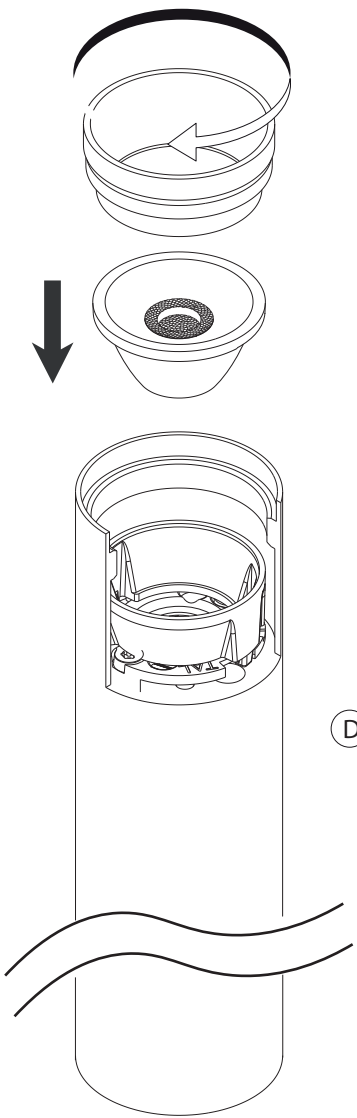
B Placing cables against base



C Mounting lensholder



D Placing Lens and turn the focusing in the fitting



TORSION

|         |             |       |                                 |
|---------|-------------|-------|---------------------------------|
| 698103N | TORSION 15° | 2700K | BRUSHED GOLD ANO                |
| 698104N | TORSION 15° | 2700K | BRUSHED TITANIUM ANO            |
| 698105N | TORSION 15° | 2700K | BRUSHED BRONZE ANO              |
| 698126N | TORSION 15° | 2700K | TEXTURED BLACK                  |
| 698147N | TORSION 15° | 2700K | TEXTURED WHITE                  |
| 698113N | TORSION 15° | 3000K | BRUSHED GOLD ANO                |
| 698114N | TORSION 15° | 3000K | BRUSHED TITANIUM ANO            |
| 698115N | TORSION 15° | 3000K | BRUSHED BRONZE ANO              |
| 698116N | TORSION 15° | 3000K | TEXTURED BLACK                  |
| 698137N | TORSION 15° | 3000K | TEXTURED WHITE                  |
| 698192N | TORSION 15° | 2700K | TEXTURED WHITE + GOLD           |
| 698194N | TORSION 15° | 2700K | TEXTURED WHITE + TEXTURED BLACK |
| 698195N | TORSION 15° | 2700K | TEXTURED BLACK + TEXTURED WHITE |
| 698196N | TORSION 15° | 2700K | BLACK + GOLD                    |
| 698182N | TORSION 15° | 3000K | TEXTURED WHITE + GOLD           |
| 698184N | TORSION 15° | 3000K | TEXTURED WHITE + TEXTURED BLACK |
| 698185N | TORSION 15° | 3000K | TEXTURED BLACK + TEXTURED WHITE |
| 698186N | TORSION 15° | 3000K | BLACK + GOLD                    |

|         |             |       |                                 |
|---------|-------------|-------|---------------------------------|
| 698103M | TORSION 36° | 2700K | BRUSHED GOLD ANO                |
| 698104M | TORSION 36° | 2700K | BRUSHED TITANIUM ANO            |
| 698105M | TORSION 36° | 2700K | BRUSHED BRONZE ANO              |
| 698126M | TORSION 36° | 2700K | TEXTURED BLACK                  |
| 698147M | TORSION 36° | 2700K | TEXTURED WHITE                  |
| 698113M | TORSION 36° | 3000K | BRUSHED GOLD ANO                |
| 698114M | TORSION 36° | 3000K | BRUSHED TITANIUM ANO            |
| 698115M | TORSION 36° | 3000K | BRUSHED BRONZE ANO              |
| 698116M | TORSION 36° | 3000K | TEXTURED BLACK                  |
| 698137M | TORSION 36° | 3000K | TEXTURED WHITE                  |
| 698192M | TORSION 36° | 2700K | TEXTURED WHITE + GOLD           |
| 698194M | TORSION 36° | 2700K | TEXTURED WHITE + TEXTURED BLACK |
| 698195M | TORSION 36° | 2700K | TEXTURED BLACK + TEXTURED WHITE |
| 698196M | TORSION 36° | 2700K | BLACK + GOLD                    |
| 698182M | TORSION 36° | 3000K | TEXTURED WHITE + GOLD           |
| 698184M | TORSION 36° | 3000K | TEXTURED WHITE + TEXTURED BLACK |
| 698185M | TORSION 36° | 3000K | TEXTURED BLACK + TEXTURED WHITE |
| 698186M | TORSION 36° | 3000K | BLACK + GOLD                    |

|         |             |       |                                 |
|---------|-------------|-------|---------------------------------|
| 698103W | TORSION 50° | 2700K | BRUSHED GOLD ANO                |
| 698104W | TORSION 50° | 2700K | BRUSHED TITANIUM ANO            |
| 698105W | TORSION 50° | 2700K | BRUSHED BRONZE ANO              |
| 698126W | TORSION 50° | 2700K | TEXTURED BLACK                  |
| 698147W | TORSION 50° | 2700K | TEXTURED WHITE                  |
| 698113W | TORSION 50° | 3000K | BRUSHED GOLD ANO                |
| 698114W | TORSION 50° | 3000K | BRUSHED TITANIUM ANO            |
| 698115W | TORSION 50° | 3000K | BRUSHED BRONZE ANO              |
| 698116W | TORSION 50° | 3000K | TEXTURED BLACK                  |
| 698137W | TORSION 50° | 3000K | TEXTURED WHITE                  |
| 698192W | TORSION 50° | 2700K | TEXTURED WHITE + GOLD           |
| 698194W | TORSION 50° | 2700K | TEXTURED WHITE + TEXTURED BLACK |
| 698195W | TORSION 50° | 2700K | TEXTURED BLACK + TEXTURED WHITE |
| 698196W | TORSION 50° | 2700K | BLACK + GOLD                    |
| 698182W | TORSION 50° | 3000K | TEXTURED WHITE + GOLD           |
| 698184W | TORSION 50° | 3000K | TEXTURED WHITE + TEXTURED BLACK |
| 698185W | TORSION 50° | 3000K | TEXTURED BLACK + TEXTURED WHITE |
| 698186W | TORSION 50° | 3000K | BLACK + GOLD                    |

LEAF

|         |          |       |                                 |
|---------|----------|-------|---------------------------------|
| 698103N | LEAF 15° | 2700K | BRUSHED GOLD ANO                |
| 698104N | LEAF 15° | 2700K | BRUSHED TITANIUM ANO            |
| 698105N | LEAF 15° | 2700K | BRUSHED BRONZE ANO              |
| 698126N | LEAF 15° | 2700K | TEXTURED BLACK                  |
| 698147N | LEAF 15° | 2700K | TEXTURED WHITE                  |
| 698113N | LEAF 15° | 3000K | BRUSHED GOLD ANO                |
| 698114N | LEAF 15° | 3000K | BRUSHED TITANIUM ANO            |
| 698115N | LEAF 15° | 3000K | BRUSHED BRONZE ANO              |
| 698116N | LEAF 15° | 3000K | TEXTURED BLACK                  |
| 698137N | LEAF 15° | 3000K | TEXTURED WHITE                  |
| 698192N | LEAF 15° | 2700K | TEXTURED WHITE + GOLD           |
| 698194N | LEAF 15° | 2700K | TEXTURED WHITE + TEXTURED BLACK |
| 698195N | LEAF 15° | 2700K | TEXTURED BLACK + TEXTURED WHITE |
| 698196N | LEAF 15° | 2700K | BLACK + GOLD                    |
| 698182N | LEAF 15° | 3000K | TEXTURED WHITE + GOLD           |
| 698184N | LEAF 15° | 3000K | TEXTURED WHITE + TEXTURED BLACK |
| 698185N | LEAF 15° | 3000K | TEXTURED BLACK + TEXTURED WHITE |
| 698186N | LEAF 15° | 3000K | BLACK + GOLD                    |

|         |          |       |                                 |
|---------|----------|-------|---------------------------------|
| 698103M | LEAF 36° | 2700K | BRUSHED GOLD ANO                |
| 698104M | LEAF 36° | 2700K | BRUSHED TITANIUM ANO            |
| 698105M | LEAF 36° | 2700K | BRUSHED BRONZE ANO              |
| 698126M | LEAF 36° | 2700K | TEXTURED BLACK                  |
| 698147M | LEAF 36° | 2700K | TEXTURED WHITE                  |
| 698113M | LEAF 36° | 3000K | BRUSHED GOLD ANO                |
| 698114M | LEAF 36° | 3000K | BRUSHED TITANIUM ANO            |
| 698115M | LEAF 36° | 3000K | BRUSHED BRONZE ANO              |
| 698116M | LEAF 36° | 3000K | TEXTURED BLACK                  |
| 698137M | LEAF 36° | 3000K | TEXTURED WHITE                  |
| 698192M | LEAF 36° | 2700K | TEXTURED WHITE + GOLD           |
| 698194M | LEAF 36° | 2700K | TEXTURED WHITE + TEXTURED BLACK |
| 698195M | LEAF 36° | 2700K | TEXTURED BLACK + TEXTURED WHITE |
| 698196M | LEAF 36° | 2700K | BLACK + GOLD                    |
| 698182M | LEAF 36° | 3000K | TEXTURED WHITE + GOLD           |
| 698184M | LEAF 36° | 3000K | TEXTURED WHITE + TEXTURED BLACK |
| 698185M | LEAF 36° | 3000K | TEXTURED BLACK + TEXTURED WHITE |
| 698186M | LEAF 36° | 3000K | BLACK + GOLD                    |

|         |          |       |                                 |
|---------|----------|-------|---------------------------------|
| 698103W | LEAF 50° | 2700K | BRUSHED GOLD ANO                |
| 698104W | LEAF 50° | 2700K | BRUSHED TITANIUM ANO            |
| 698105W | LEAF 50° | 2700K | BRUSHED BRONZE ANO              |
| 698126W | LEAF 50° | 2700K | TEXTURED BLACK                  |
| 698147W | LEAF 50° | 2700K | TEXTURED WHITE                  |
| 698113W | LEAF 50° | 3000K | BRUSHED GOLD ANO                |
| 698114W | LEAF 50° | 3000K | BRUSHED TITANIUM ANO            |
| 698115W | LEAF 50° | 3000K | BRUSHED BRONZE ANO              |
| 698116W | LEAF 50° | 3000K | TEXTURED BLACK                  |
| 698137W | LEAF 50° | 3000K | TEXTURED WHITE                  |
| 698192W | LEAF 50° | 2700K | TEXTURED WHITE + GOLD           |
| 698194W | LEAF 50° | 2700K | TEXTURED WHITE + TEXTURED BLACK |
| 698195W | LEAF 50° | 2700K | TEXTURED BLACK + TEXTURED WHITE |
| 698196W | LEAF 50° | 2700K | BLACK + GOLD                    |
| 698182W | LEAF 50° | 3000K | TEXTURED WHITE + GOLD           |
| 698184W | LEAF 50° | 3000K | TEXTURED WHITE + TEXTURED BLACK |
| 698185W | LEAF 50° | 3000K | TEXTURED BLACK + TEXTURED WHITE |
| 698186W | LEAF 50° | 3000K | BLACK + GOLD                    |