



STAR ALLIANCE TECHNOLOGIES Home and Building Applications



FEATURES:

- POWER LED 3.6 Watt
- Base / Socket: E14
- More than 50,000 hours
- 60 mm ball shape blub
- Low heat, no UV or IR light radiation
- Instand "ON" to 100% brightness
- No mercury or other inorganic
- Homogeneous flood illumination
- 4 Watt version can achieve directional light output equal to 30 Watt halogen lamp
- Consume 80% lees power than halogen lamp
 - Reverse polarity protection
- 1 Year limited warranty look at page no. 7
- Works with 110~240V AC lighting systems

Applications:

- Accent Lighting
- Amusement Park Lighting
- Bath and Vanity Lighting
- Energy Saving Programs
- Replace Standard GLS lamps

STAR ALLIANCE TECHNOLOGIES
Home & Building Applications

| | | | | | | | | | | | |
|-------|-----------|--|-----------|----------|--------------------|-----------|------------|------------|--|--|--|
| CHKD | Schumann | | | | | MATL: | Schroeder | 08.11.2008 | | | |
| | | | | | | FINISH | Müllerbach | | | | |
| DRW: | Müller | | TOLERANCE | Heermann | DATE | | | | | | |
| APPD: | Bruchmann | | | | Sheet No. 1 from 7 | Part No.: | | 1210119 | | | |



STAR ALLIANCE TECHNOLOGIES Home and Building Applications

Product Specifications

| | |
|-------------------------|--|
| Light Source: | 1 x 3.6 Watt |
| Optics: | White diffused glass lens |
| Lens Diameter: | 70 mm ball shape |
| Beam Angle: | 120° (Flood) |
| Rendering Index: | > 60 (for cool white color) > 65 (for natrual white color) > 70 (for warm white color) |
| Total Length: | 138.00 mm |
| Weight: | 52 g ± 2 g |
| Heatsink | Machined pure aluminum with anodize finish |
| Base: | E14 |
| Dimmability: | not dimmable |

Environmental Specifications

| | |
|---------------------------|---|
| Temperature Range: | Ambient: -20°C to 40°C, Surface of Lamp 60°C to 70°C |
| Humidity Range: | 0 to 95% non-condensing humdity |

Electrical Specifications

| | |
|-----------------------------|----------------|
| Voltage Requirement: | 110 or 230V AC |
| Power Consumption: | ≤ 4.0 W |
| Power Factor: | ≥ 0.5 |

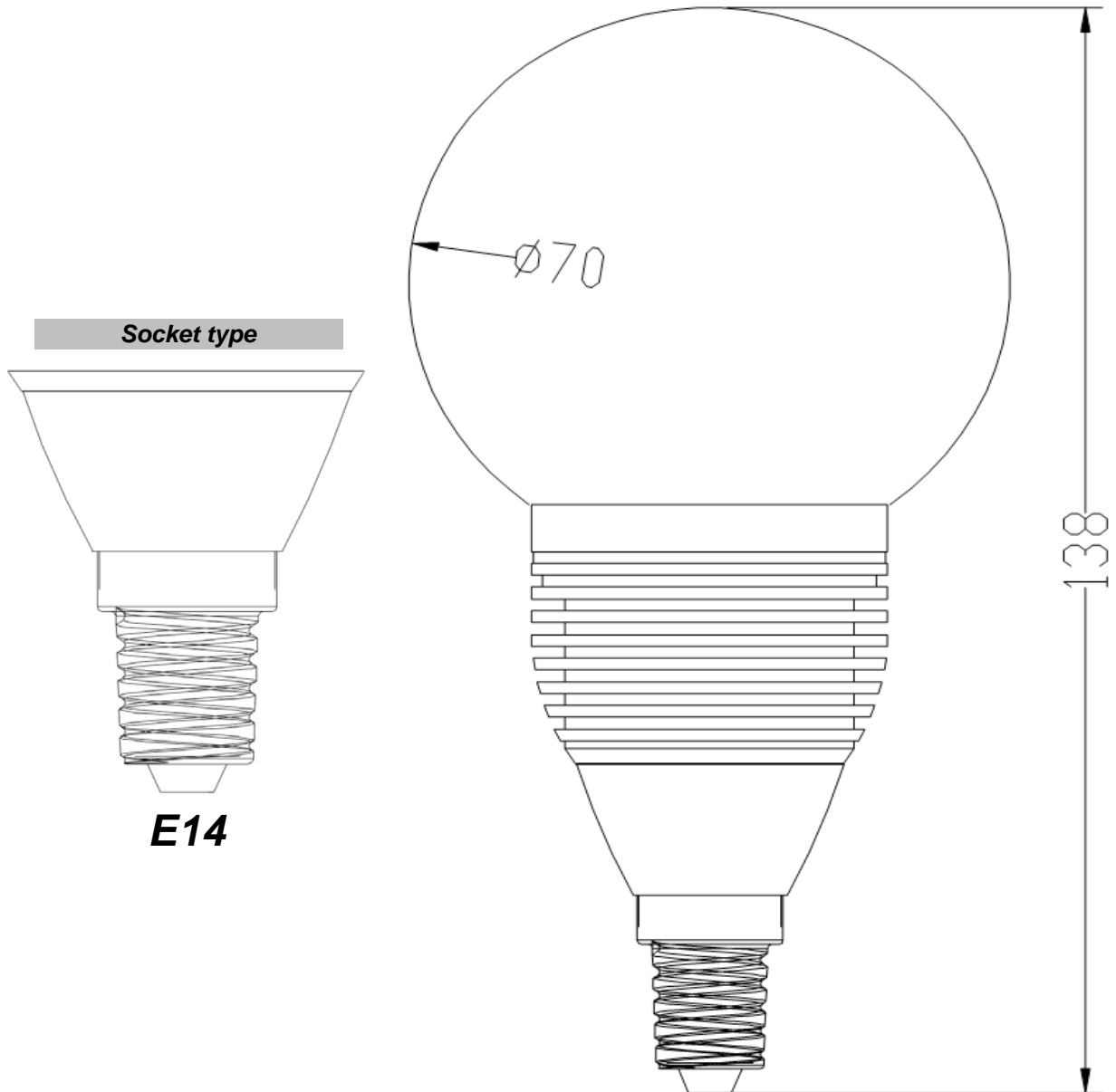
STAR ALLIANCE TECHNOLOGIES
Home & Building Applications

| | | | | | | | | | | | |
|-------|-----------|--|-----------|----------|--------------------|-----------|------------|------------|--|--|---------|
| CHKD | Schumann | | | | | MATL: | Schroeder | 08.11.2008 | | | |
| | | | | | | FINISH | Müllerbach | | | | |
| DRW: | Müller | | TOLERANCE | Heermann | DATE | | | | | | |
| APPD: | Bruchmann | | | | Sheet No. 2 from 7 | Part No.: | | | | | 1210119 |



STAR ALLIANCE TECHNOLOGIES Home and Building Applications

Technical Drawing (mm)



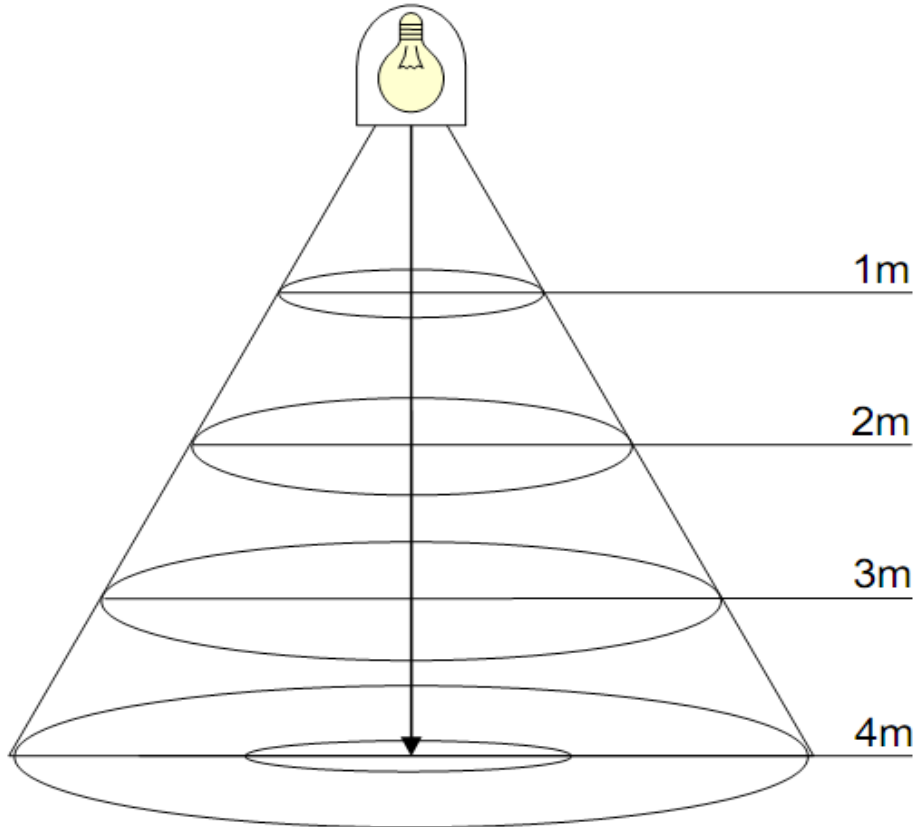
STAR ALLIANCE TECHNOLOGIES
Home & Building Applications

| | | | | | | | | |
|-------|-----------|--|-----------|--------------------|------|-----------|------------|------------|
| CHKD | Schumann | | | | | MATL: | Schroeder | 08.11.2008 |
| | | | | | | FINISH | Müllerbach | |
| DRW: | Müller | | TOLERANCE | Heermann | DATE | | | |
| APPD: | Bruchmann | | | Sheet No. 3 from 7 | | Part No.: | 1210119 | |



STAR ALLIANCE TECHNOLOGIES Home and Building Applications

Illumination Characteristics (T = 25°C)



| Color | W | N | C |
|-------|---|---|---|
|-------|---|---|---|

| | | | | |
|----|-----|-----|------|------|
| 1m | Lux | 12 | 15 | --- |
| | Dia | --- | ---- | ---- |

| | | | | |
|----|-----|-----|------|------|
| 2m | Lux | 9 | 6 | --- |
| | Dia | --- | ---- | ---- |

| | | | | |
|----|-----|-----|------|------|
| 3m | Lux | 5 | 3 | --- |
| | Dia | --- | ---- | ---- |

| | | | | |
|----|-----|-----|------|------|
| 4m | Lux | 3 | 2 | --- |
| | Dia | --- | ---- | ---- |

W = Warm White
N = Natural White
C = Cool White

The center beam lux is measured with digital Lux Meter (Model TES-1334-A)

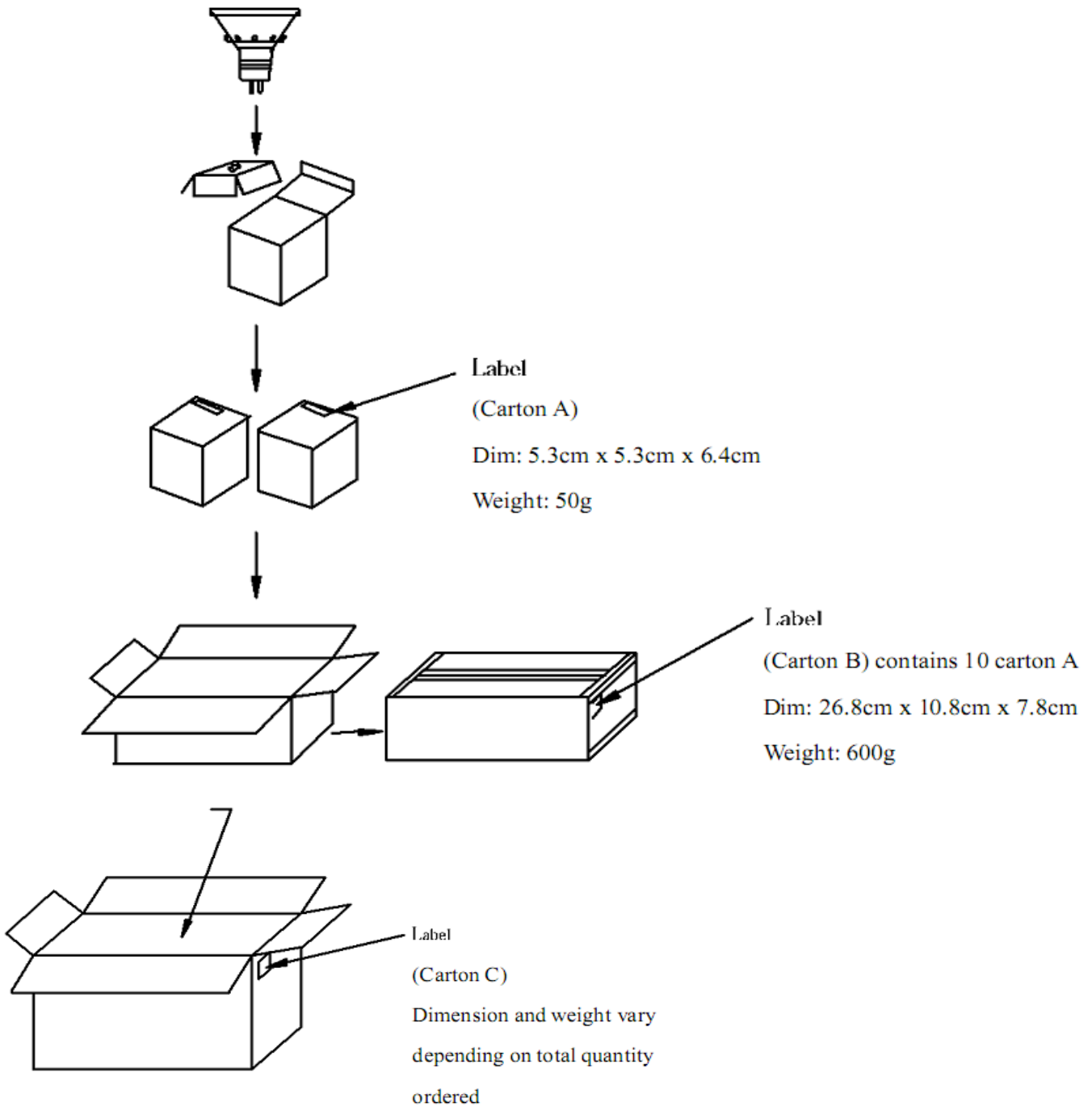
STAR ALLIANCE TECHNOLOGIES
Home & Building Applications

| | | | | | | | |
|-------|-----------|--|-----------|--------------------|-----------|------------|------------|
| CHKD | Schumann | | | | MATL: | Schroeder | 08.11.2008 |
| | | | | | FINISH | Müllerbach | |
| DRW: | Müller | | TOLERANCE | Heermann | DATE | | |
| APPD: | Bruchmann | | | Sheet No. 4 from 7 | Part No.: | | 1210119 |



STAR ALLIANCE TECHNOLOGIES Home and Building Applications

Packing Specifications



STAR ALLIANCE TECHNOLOGIES
Home & Building Applications

| | | | | | | | | | | | |
|-------|-----------|--|-----------|--------------------|-----------|--------|------------|------------|--|--|---------|
| CHKD | Schumann | | | | | MATL: | Schroeder | 08.11.2008 | | | |
| | | | | | | FINISH | Müllerbach | | | | |
| DRW: | Müller | | TOLERANCE | Heermann | DATE | | | | | | |
| APPD: | Bruchmann | | | Sheet No. 5 from 7 | Part No.: | | | | | | 1210119 |



STAR ALLIANCE TECHNOLOGIES Home and Building Applications

Ordering Informations

| Serie | Power | Color Code | Beam Shape | Voltage | Base |
|---------|------------|-------------------------------------|-----------------------|------------------------|------|
| 1210119 | 4 | W | F | U | 14 |
| | 4 = 4 Watt | W = Warm N = Natural C = Cool | F = Flood (120°) | U = 110 V E = 230 V | E14 |

Product Informations

| Color | CCT (K / nm) | Operating Voltage (V AC) | LED Power (W) | Typical Luminous Flux (lm) | Beam Angle (°) |
|---------------|-----------------|-------------------------------|--------------------|---------------------------------|---------------------|
| Warm White | 2600~3000 | 110 or 230 | 1 x 3.6 | 180 | 120 ±2 |
| Natural White | 5000~6000 | | | 230 | |
| Cool White | 6000~7000 | | | 280 | |

Typical Electrical Characteristics at T=25°C

| Parameter | Symbol | Min. | Typ. | Max. | Unit |
|----------------------------|-----------------|------|--------|------|-------|
| Input Voltage (110VAC) | V _{AC} | 100 | ---- | 120 | V |
| Input Voltage (230VAC) | V _{AC} | 200 | ---- | 240 | V |
| LED Forward Current | I _f | ---- | 350 | --- | mA |
| Estimated Life Time | | ---- | 50,000 | ---- | Hours |
| Optimized Body Temperature | T | ---- | 55 | 60 | °C |

STAR ALLIANCE TECHNOLOGIES
Home & Building Applications

| | | | | | | | |
|-------|-----------|-----------|--------------------|------|-----------|------------|------------|
| CHKD | Schumann | | | | MATL: | Schroeder | 08.11.2008 |
| | | | | | FINISH | Müllerbach | |
| DRW: | Müller | TOLERANCE | Heermann | DATE | | | |
| APPD: | Bruchmann | | Sheet No. 6 from 7 | | Part No.: | 1210119 | |



STAR ALLIANCE TECHNOLOGIES Home and Building Applications

Warranty Discription

EDCON WARRANTY

Manufacturer warrants to the Purchaser that each Product manufactured and sold by it will be free from defects in material and workmanship in its intended use (normal wear and tear excepted) for the period of one year from date of Purchasers purchase (the invoice date) from Manufacturer. Manufacturers warranty flows only to Purchaser. If any Product covered by this warranty is returned by Purchaser in accordance with Manufacturers Products Return Policy, including without limitation its return authorization provisions, within the applicable warranty period set forth above, and upon examination Manufacturer determines to its satisfaction that such Product was defective in material or workmanship at the time of delivery to the Purchaser. Manufacturer will, at its option, repair or replace the Product or the defective part thereof, or reimburse Purchaser for the purchase price. For purposes of clarity, "repair or replace the Product or the defective part thereof" does not include any reinstallation costs or expenses. If Manufacturer chooses to replace the Product and is not able to do so because it has been discontinued or is not available, Manufacturer may replace it with a comparable product. The Products Return Policy is posted on Manufacturers Internet web site at <http://www.edcon-components.com>. The foregoing notwithstanding, Manufacturer will not be responsible for damage to any Product resulting from misuse, negligence, acts of God or accident or resulting from repairs or alterations made by any person or firm not duly authorized by Manufacturer in writing. Purchaser shall convey with each Product distributed to end users the MANUFACTURERS WARRANTY included by Manufacturer with such Product, and, if Manufacturer determines that the appropriate remedy for a defective product is refund of Purchasers purchase price, Purchaser shall refund to the end user (or arrange for the refund to the end user of) the full purchase price paid by the end user for such defective Product. The Products Return Policy is posted on Manufacturers Internet web site at <http://www.edcon-components.com>. The foregoing notwithstanding, Manufacturer will not be responsible for damage to any Product resulting from misuse, negligence, acts of God or accident or resulting from repairs or alterations made by any person or firm not duly authorized by Manufacturer in writing. Purchaser shall convey with each Product distributed to end users the MANUFACTURERS WARRANTY included by Manufacturer with such Product, and, if Manufacturer determines that the appropriate remedy for a defective product is refund of Purchasers purchase price, Purchaser shall refund to the end user (or arrange for the refund to the end user of) the full purchase price paid by the end user for such defective Product.

THIRD PARTY WARRENTIES

With respect to products sold to the Purchaser by Manufacturer but not manufactured by Manufacturer, MANUFACTURER MAKES NO WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING, WITHOUT LIMITATION; ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, but will make available to the Purchaser, to the extent permitted by law and relevant contracts, the warranties of manufacturer of the relevant product upon the Purchasers timely written request. NON-IMPLIED WARRANTIES

NON-IMPLIED WARRENTIES

THE WARRANTIES GIVEN IN THESE ARE THE ONLY WARRANTIES GIVEN BY THE MANUFACTURER WITH RESPECT TO THE PRODUCTS AND ARE GIVEN IN LIEU OF ALL OTHER WARRANTIES OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, WARRANTIES OF MERCHANTABILITY, OF NON INFRINGEMENT AND OF FITNESS FOR A PARTICULAR PURPOSE. PURCHASERS EXCLUSIVE REMEDIES, AND MANUFACTURERS SOLE LIABILITY, FOR ANY NONCONFORMITY OR DEFECT IN ANY PRODUCT SHALL BE THOSE EXPRESSED HEREIN. LIMITATION OF LIABILITY

LIMITATION OF LIABILITY

An essential purpose of the limited exclusive liabilities and remedies in this Agreement is allocation of risks between Manufacturer and Purchaser, which allocation of risks is reflected in the purchase price for the Products. UNDER NO CIRCUMSTANCES SHALL MANUFACTURERS LIABILITY ARISING OUT OF OR IN CONNECTION WITH THIS AGREEMENT OR MANUFACTURERS PERFORMANCE OR ASSERTED FAILURE TO PERFORM HEREUNDER, IN CONTRACT, TORT (INCLUDING NEGLIGENCE) OR OTHERWISE, EXCEED THE PURCHASE PRICE OF THE PRODUCT TO WHICH SUCH LIABILITY RELATES. IN NO EVENT SHALL MANUFACTURER BE LIABLE FOR SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES, INCLUDING, WITHOUT LIMITATION, DAMAGES RESULTING FROM LOSS OF USE, PROFITS, BUSINESS OR GOODWILL, WHETHER OR NOT MANUFACTURER HAS BEEN ADVISED OF THE POSSIBILITY THEREOF.

STAR ALLIANCE TECHNOLOGIES
Home & Building Applications

| | | | | | | | | |
|-------|-----------|--|-----------|--------------------|------|-----------|------------|------------|
| CHKD | Schumann | | | | | MATL: | Schroeder | 08.11.2008 |
| | | | | | | FINISH | Müllerbach | |
| DRW: | Müller | | TOLERANCE | Heermann | DATE | | | |
| APPD: | Bruchmann | | | Sheet No. 7 from 7 | | Part No.: | | 1210119 |