

the collection

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Configure the Orbital conform to your wishes.



ORBITAL THREE IN ONE

VENTILATION

CONVENTIONAL VALVE

CONVENTIONAL

EMERGENCY



One futuristic lighting fixture has it all.

With the aesthetics in mind, every project has the same difficulty: where do we have to install (or hide) the visually unappealing ventilation holes that harm the pureness of the interior. TAL has developed the answer with the Orbital range; well-engineered devices with a refined an elegant look that simply combine the ventilation system with a downlight.

Orbital is the perfect tool for any project and suits a great variety of applications. High-end lighting merged with ventilation, as well as sound, smoke and motion detection. A standard downlight can turn into an extensive toolbox, to which you can simply add your desired features. Its smooth curves blend into the architecture for optimal visual comfort.

The Orbital is available in a standard version (installation via leaf springs) and a trimless version (installation via dedicated frame) that merges flush with the ceiling. The device comes in textured white or textured black powder coated finish.

The basic light comes from the outer circle of any Orbital device and provides a profitable efficacy of 150 lumens per watt, which leads to +1000 lumens. The Orbital can be equipped with leds with a colourtemperature of 2700K & 3000K and also with the halosphere technology (dim to warm).

The innovative Orbital with integrated ventilation turns your home or office into a healthy environment. Choose between the throughflow or flow control system to create movement of purified air, beneficial to your indoor climate and extends the lifespan of the general light. A smooth designed union of lighting with high quality ventilation in aluminum casing leads to a cost effective and durable product. Modern Architecture is limitless. Throughout the process of designing a product – from the basic concept to determining the smallest detail – the ambition should remain the same: eliminate all redundant elements in view of retaining only the essential.

More than 30 years of experience have resulted in the realization of different types of projects including private dwellings set in an urban context, secluded villa's located on a remote hilltop yet also buildings with a more public function such as museums, office buildings, hotels, commercial real estate, etc.

The numerous publications and awards granted to AABE underpin the worldwide appreciation for the Atelier's architectural philosophy.

The Atelier consists of 15 architects and is hence big enough to master multidisciplinary projects, yet small enough to function as a team collaborating to achieve a unique project - time and time again.

AABE

In its Brussels headquarters AABE - founded and led by architect Bruno Erpicum gathers a team of passionate architects who realize multidisciplinary projects across the globe.

ABOUT THE DESIGNER

Bruno Erpicum

"Eliminate all redundant in view of retaining only the essential."

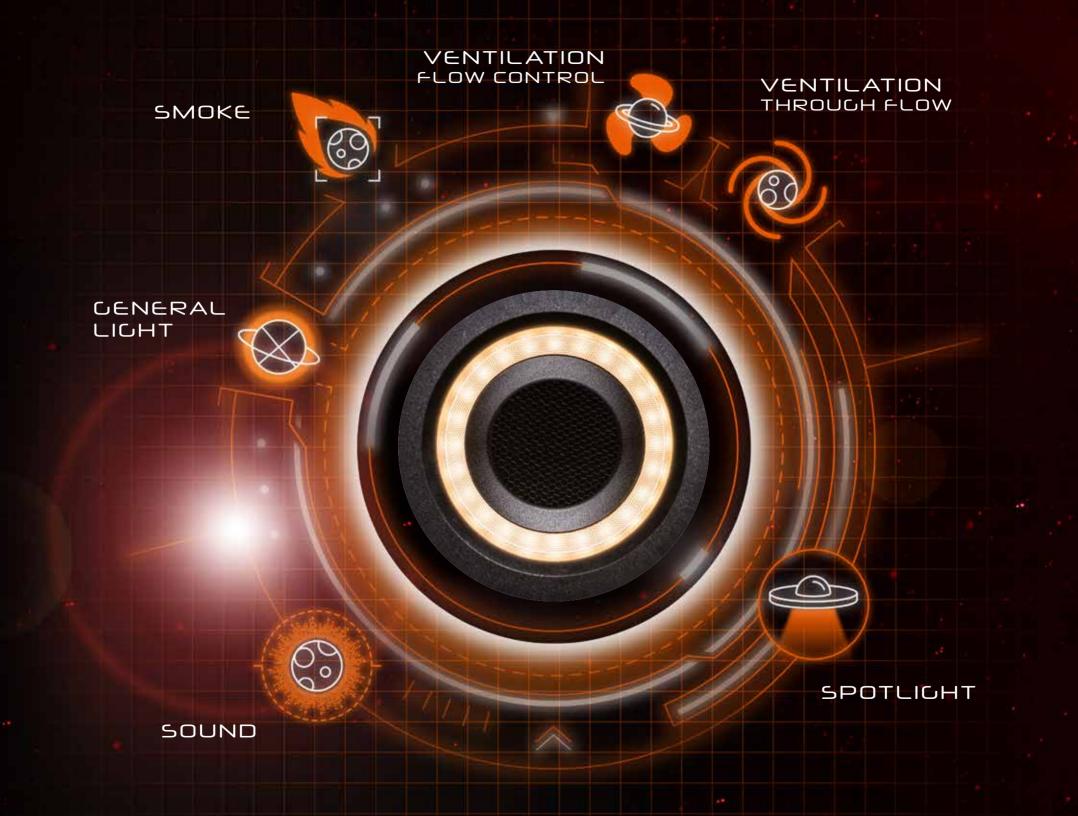


ORBITAL

A ceiling represents the sky of a room. Almost never decorated nor 'littered' with furniture but instead often the only free surface in a room. And yet, very little attention is paid to the design of a ceiling. Lighting, aeration, music, AC, movement detectors, etc. The panoply of techniques required in today's rooms, leads to the fact that 'designing' the ceiling in a uniform color is often the highest achievable goal.

The architects at the Brussels' based studio Bruno Erpicum, have been dreaming for many years about a uniform and standard object that integrates all of the abovementioned techniques and has found the perfect partner in lighting company TAL to realize this objective. The ambition was clear from the start: designing a basic object that hides all of these techniques from the eye.

The Orbital was created: a minimalistic cylinder integrating a wide array of techniques in an ingenious manner. The result: a pristine ceiling whereby merely a few vacant cut-aways cluster the techniques. Ratio? There is more in less.



ORBITAL

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by *Erpicum*



+ FLOW CONTROL 35

+ LOUDSPEAKER 38



+ FLOW CONTROL 43



ORBITAL + LOUDSPEAKER 46



TRIMLESS

+ THROUGH FLOW 37

ORBITAL





ORBITAL

DOWNLIGHT

+ THROUGH FLOW 45

ORBITAL

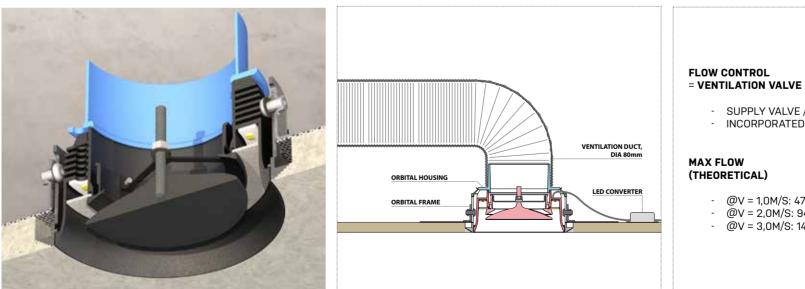
+ SMOKE DETECTOR 47

One futuristic lighting fixture has it all.

ORBITAL FLOW CONTROL

trimless





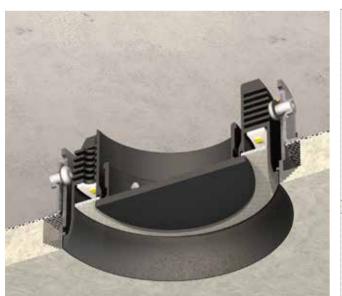
- - SUPPLY VALVE / EXTRACT VALVE
 - INCORPORATED ADJUSTABLE FLOW REGULATOR
 - @V = 1,0M/S: 47M³/S
 - $@V = 2,0M/S: 94M^3/S$
 - @V = 3,0M/S: 141M³/S

LIGHT ONLY (FLOW CONTROL LOOK) ORBITAL

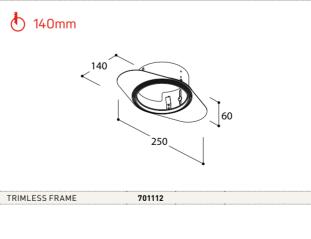
trimless



HALOSPHERE: dim to warm 3000K-1800K

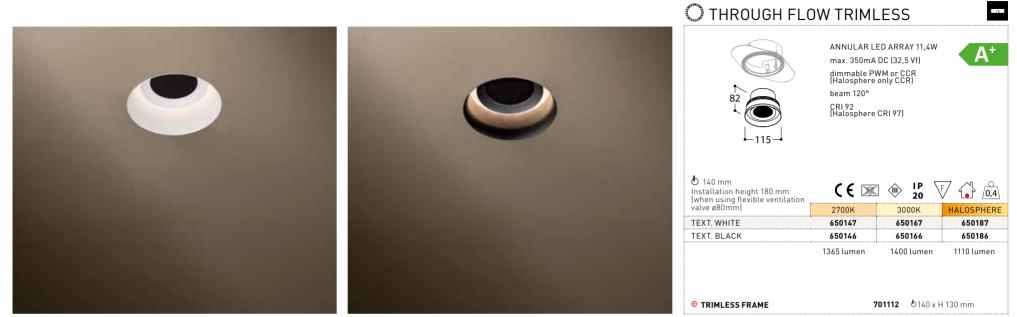


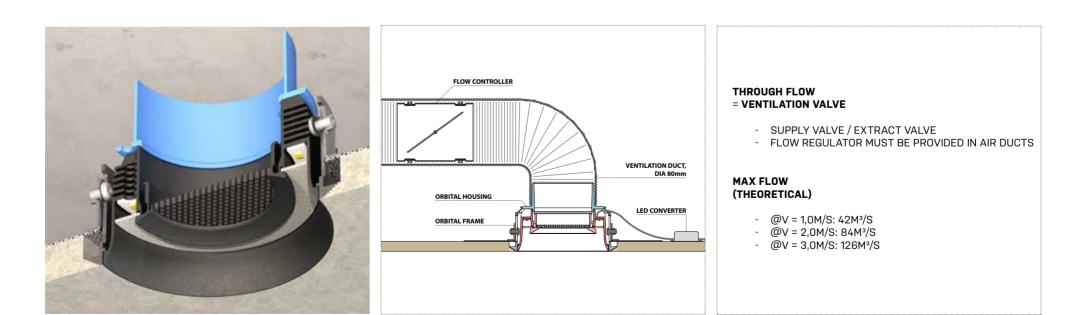
TRIMLESS FRAME



ORBITAL THROUGH FLOW

trimless

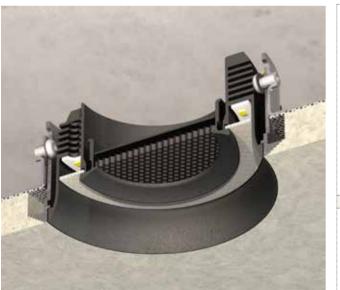




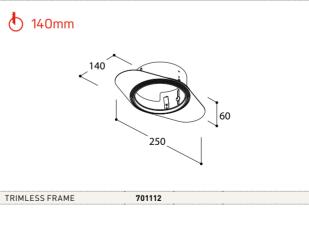
LIGHT ONLY (THROUGH FLOW LOOK) ORBITAL



HALOSPHERE: dim to warm 3000K-1800K



TRIMLESS FRAME

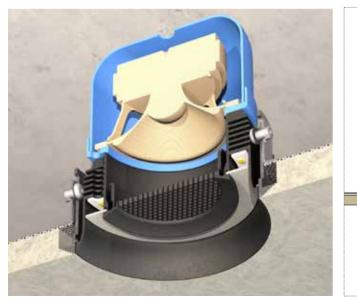


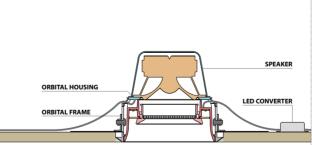
ORBITAL LOUDSPEAKER

trimless



HALOSPHERE: dim to warm 3000K-1800K

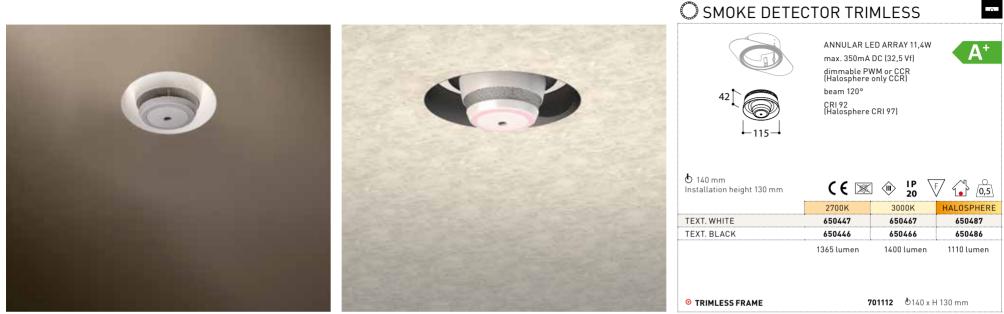




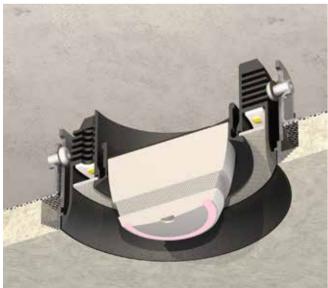
SOUND = 3" FULL RANGE SPEAKER - MAX. POWER = 30W - RATED POWER INPUT = 15W - NOMINAL IMPEDANCE = 80HM - DCR IMPEDANCE = 6,60HM - SENSITIVITY 1W/1M = 88DB - FREQUENCY RESPONSE = 75HZ-20KHZ

trimless

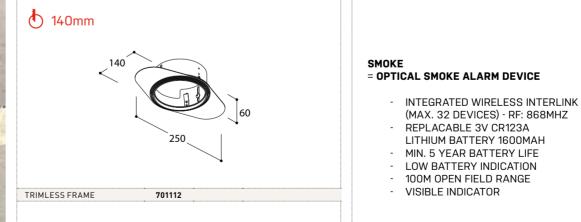
SMOKE DETECTOR ORBITAL



HALOSPHERE: dim to warm 3000K-1800K



TRIMLESS FRAME

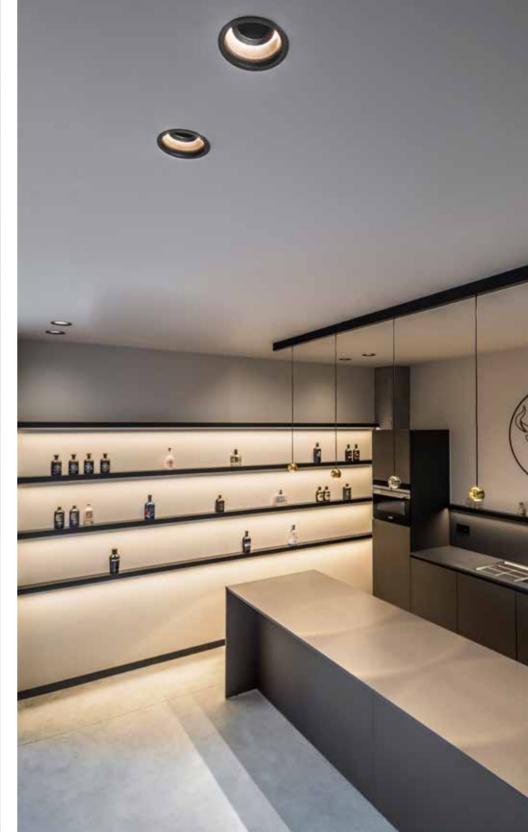






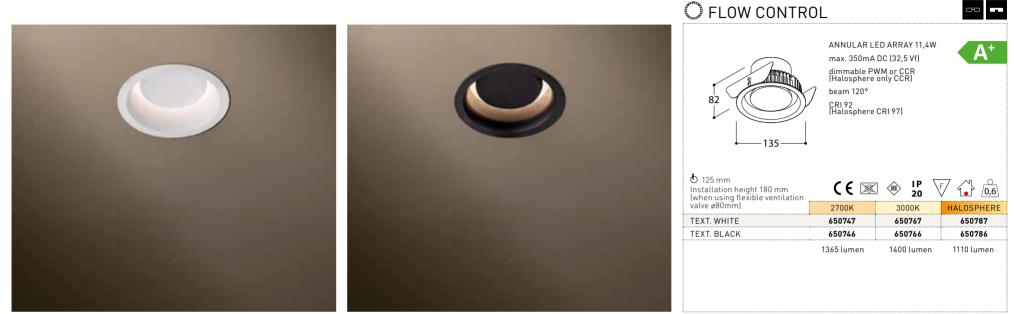
"Eliminate all redundant in view of retaining only the essential."

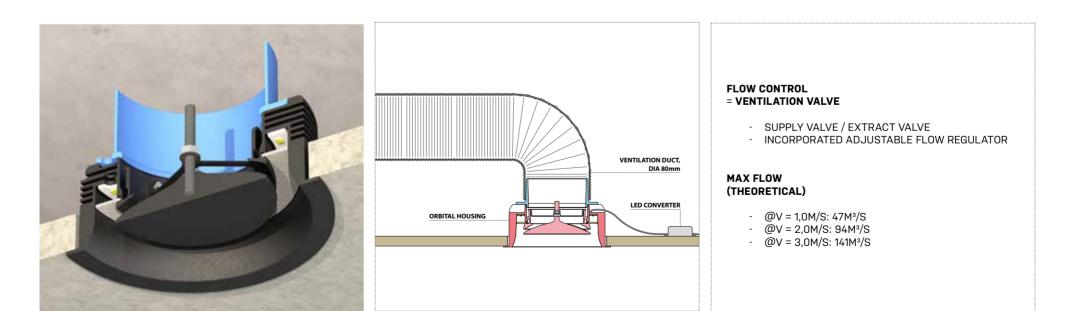




ORBITAL FLOW CONTROL

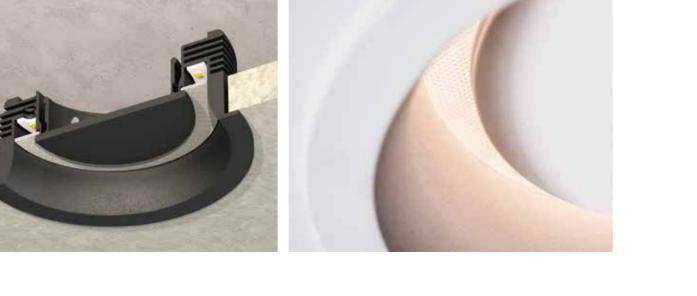
b 125 mm **downlights**





downlights 👌 125 mm LIGHT ONLY (FLOW CONTROL LOOK) ORBITAL ○ FLOW CONTROL LOOK ANNULAR LED ARRAY 11,4W **A**⁺ max. 350mA DC (32,5 Vf) dimmable PWM or CCR (Halosphere only CCR) beam 120° CRI 92 (Halosphere CRI 97) **b** 125 mm (E 📧 🚸 🛯 P 20 F Installation height 60 (45) mm 2700K 3000K HALOSPHERE TEXT. WHITE 650547 650567 650587 TEXT. BLACK 650546 650566 650586 1110 lumen 1365 lumen 1400 lumen

HALOSPHERE: dim to warm 3000K-1800K

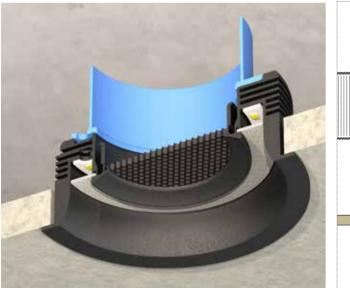


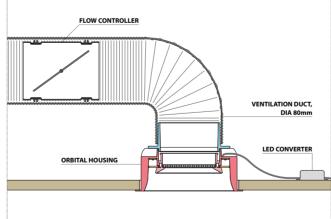
ORBITAL THROUGH FLOW

b 125 mm **downlights**



HALOSPHERE: dim to warm 3000K-1800K





THROUGH FLOW = VENTILATION VALVE

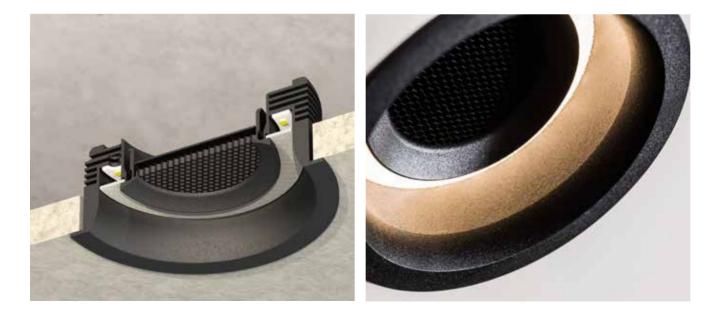
- SUPPLY VALVE / EXTRACT VALVE
- FLOW REGULATOR MUST BE PROVIDED IN AIR DUCTS

MAX FLOW (THEORETICAL)

- @V = 1,0M/S: 42M³/S
- @V = 2,0M/S: 84M³/S
- @V = 3,0M/S: 126M³/S

downlights 👌 125 mm LIGHT ONLY (THROUGH FLOW LOOK) ORBITAL **O** THROUGH FLOW LOOK ANNULAR LED ARRAY 11,4W **A**⁺ max. 350mA DC (32,5 Vf) dimmable PWM or CCR (Halosphere only CCR) beam 120° CRI 92 (Halosphere CRI 97) 134 **b** 125 mm (E 📧 🕸 🔢 F Installation height 60 (45) mm 2700K 3000K HALOSPHERE TEXT. WHITE 650544 650564 650584 TEXT. BLACK 650542 650562 650582 1110 lumen 1365 lumen 1400 lumen

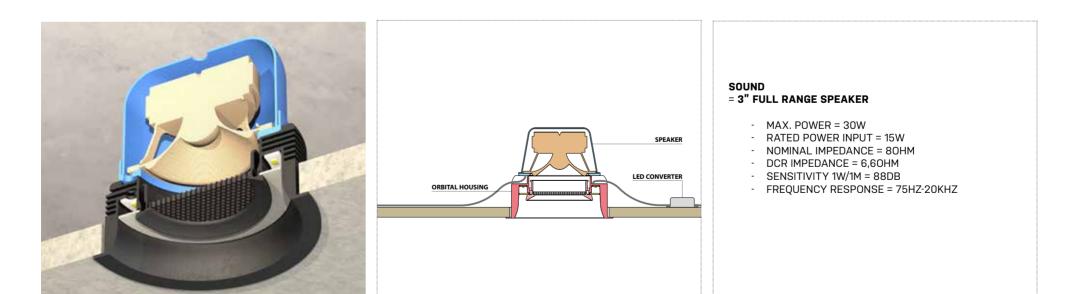
HALOSPHERE: dim to warm 3000K-1800K



ORBITAL LOUDSPEAKER

b 125 mm **downlights**





downlights 👌 125 mm

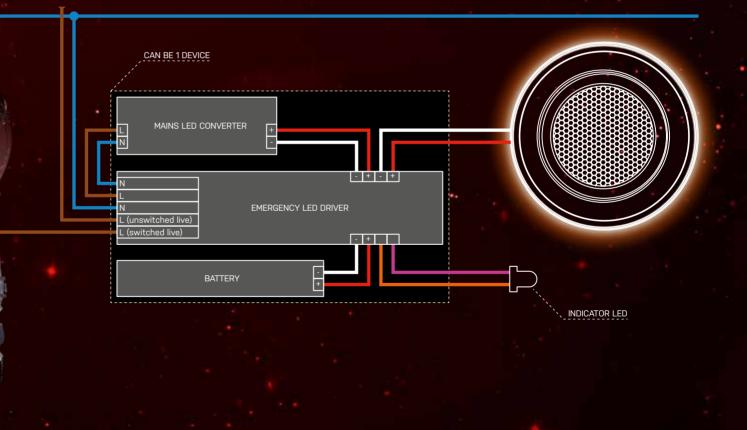
SMOKE DETECTOR ORBITAL





WIRING DIAGRAM ORBITAL + EMERGENCY

TAL



BASIC VALVES ORBITAL



TAL ARCHITECTURAL LIGHTING & ELEK TRENDS PRODUCTIONS

Orbital is the result of a collaboration between 2 different companies, each being a specialist in its domain. TAL as specialist in architectural lighting has taken care of the lighting concept, ETP as specialist in mechanical ventilation has taken care of the ventilation part. Orbital is the symbiosis of lighting and ventilation.







www.tal.be/orbital - www.elektrends.be/orbital

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