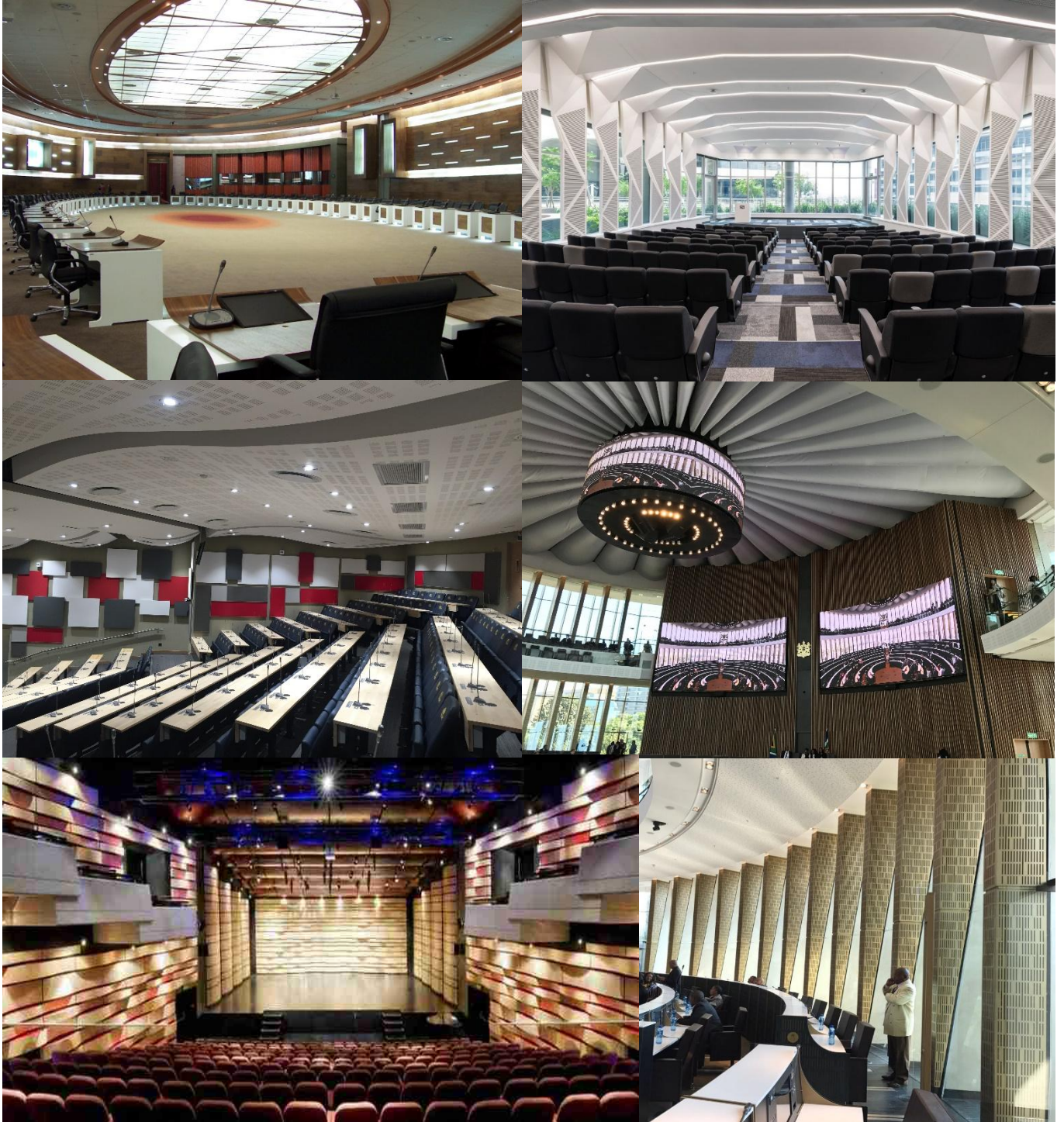


# L I N S P A C E

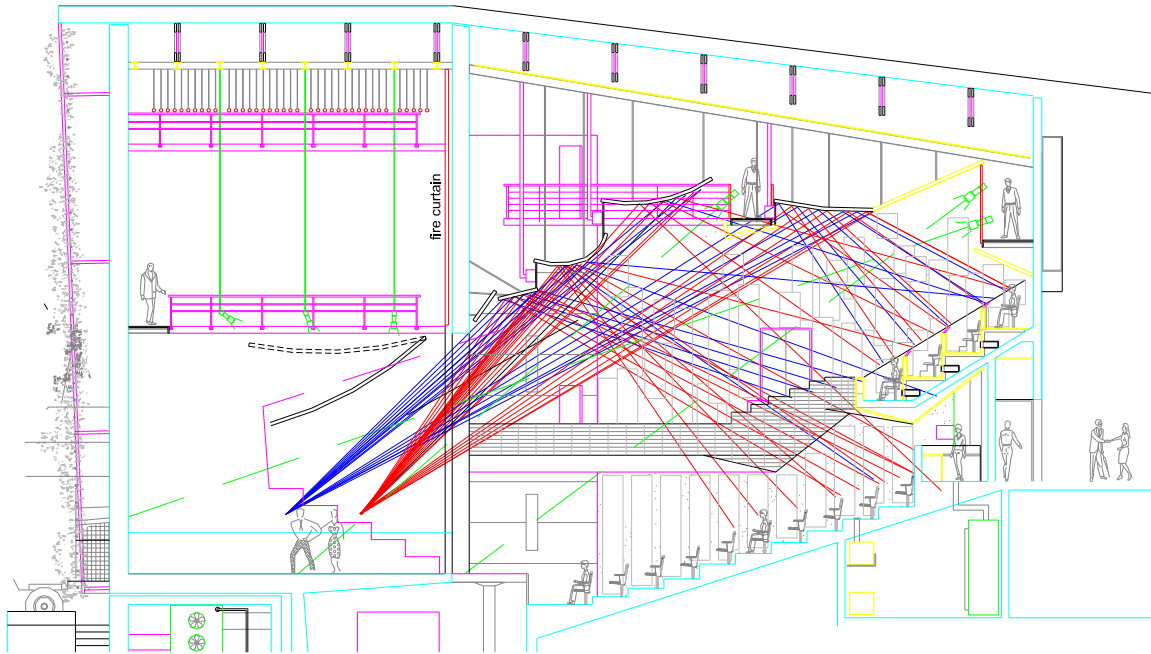
ACOUSTICS • AV • SPACE ENABLING

141 Boundary Lane Sandhurst  
Sandton Gauteng South Africa 2196  
PO Box 411145 Craighall 2024  
Tel +27 (0) 82 455 6141  
Admin eMail: [office@linspace.com](mailto:office@linspace.com)  
Web: [www.linspace.com](http://www.linspace.com)



May 2025

# 1. INTRODUCTION



## 1.1. Credentials of LINSPLACE Engineers

### **LINSPLACE - Previously Known as Pro Acoustic Consulting Engineers (PACE)**

32 years of proven consulting track record with the largest client base in Africa.

### **LINSPLACE engineers have been entrusted with major and iconic projects**

Fully glazed Johannesburg Council Chamber, United Nations Offices Nairobi campus, SASOL, SA Reserve Bank, DSTV, Bowman glass auditorium, Soweto Theatre, Standard Bank, ABSA, Nedbank, FNB, Vodacom, MTN, Facebook JHB, Google (JHB, Accra & Lagos), Microsoft (JHB & Nairobi), Old Mutual Sandton, BMW, etc. etc.

### **LINSPLACE engineers are SPACE ENABLERS**

The principal engineer Ivan Lin has been actively promoting “User Experience Driven Engineering” or “User Experience Driven Architecture” for the last 16 years.

### **LINSPLACE engineers understand space performance issues**

Linspace engineers are active researchers in the relationship between occupant work performance and environmental designs approaches.

### **LINSPLACE enables “Form” to function, beautifully**

We design and make beautiful “Forms” work acoustically: [www.linspace.co.za](http://www.linspace.co.za)

### **LINSPLACE engineers challenge the Norm**

LINSPLACE engineers believe that even if Norm is OK, it does not mean Norm is acceptable. If any improvement in the space performance/cost ratio is possible, the Norm must be challenged.

### **LINSPLACE engineers set standards**

LINSPLACE engineers assisted in drafting the following:

Acoustic Standards for Belmond Hotels Group

Acoustic Standards for Lux Hotels and Resorts

Acoustic Standards for Department of Higher Education Student Residences

GBCSA Office Tool V1 IEQ12 Acoustic credits and GBCSA Retail Tool V1 Noise rating tool

GBCSA Office Tool V2 IEQ12 Acoustic Credits

GBCSA Interior Tool Pilot Acoustic Quality credits,

GBCSA Existing Building Performance Pilot Acoustic Quality Credits

**LINSPACE engineers set records (possibly!)**

Possibly world first deployment of large-scale multi-media interface for Parliamentary Delegate System (Cape Town Parliament chamber 2003)

Ivan Lin invented Intelligent Adaptive Multi-zone Sound Masking System (IAMSAS). More than 200,000 sqm of successful deployment to date in SA.

Ivan Lin has been involved in the design of more than 10 parliamentary environments in SA and internationally, possibly the most in the world.

LINSPACE engineers have been entrusted by the largest commercial building industry client base in SA.

### 1.1.1 Acoustics

#### Architectural Acoustics

The engineers of LINSPACE are recognized leaders in the field of Architectural Acoustics in South Africa. Our role in the Architectural Acoustic field is to ensure that a proposed building will be conducive to its intended purpose from an acoustic perspective.

Past projects of LINSPACE engineers include the ABSA Towers, American International School, New Anglo American Rosebank Offices, Barclays Johannesburg, BCX IT Head Office, BMW Head Office, Citibank Sandton, Council of Johannesburg new Chamber, DSTV new head offices, Embassy Towers, Facebook Head offices, FNB Call Centres, Google Johannesburg, Google Ghana, Huawei Head Office, Hotel Verde Zanzibar, Market Theatre, Microsoft South Africa, MTN head offices, Nedcor New Town Development, Old Mutual new Offices Sandton, Palazzo Steyn, SASOL Head Office Sandton, Steyn City, Sol Plaatjie University, Standard Bank Rosebank, Telkom SA new offices, Total Johannesburg, United Nations Office at Nairobi, University of Mpumalanga, University of Pretoria campuses, Vodacom head offices, Werkmans, Sandton, etc.

#### Hospitality Sector:

The Principal Engineer Ivan Lin has been assisting on Hospitality Projects internationally since 1992. In recent years, Ivan has also been engaged directly by development or tenant clients to ensure the design professionals adhering to the prescribed acoustics performance and user experience criteria in commercial, public and hospitality sectors. For the Hospitality Sector, Ivan have been assisting with acoustic design, acoustic brand standard compliance and rationalisation. Hotel brands assisted include Belmond Hotels, Hilton Hotels & Resorts brands, Radisson Hotel brands, Accor Hotel brands, Lux\* Resorts & Hotels, One&Only...etc.

LINSPACE has been selected as a Preferred Acoustic Consultant by a number of hotel brands. Belmond Luxury Hotels, one of the most premium hospitality operators internationally, selected LINSPACE from a panel of international acoustic consultants to author their Development Brand Acoustic Standard in 2025.



## **Green Building Acoustics**

As sustainability, environmental responsibility and employee well-being gains greater relevance and importance in the development of modern buildings, more emphasis is placed on the "green design" of buildings. The Green Star Council of South Africa (GBCSA) was created to establish a common language and standard of measurement for green buildings. This is done through the Green Star rating tools.

An important element of the building design is the indoor environmental quality (IEQ) offered by a building. This relates to air quality, lighting levels and noise levels. It is accepted that internal noise levels have a significant effect on the occupants of a building, affecting their satisfaction, well-being and hence their health and productivity. The GBCSA, through the Green Star Tool aims to "recognize buildings that are designed to maintain internal noise levels at an appropriate level" by awarding up to two Green Star points to such projects.

We have been involved in several Green Star projects, preparing the documentation required to claim the points related to internal building noise levels. Notable examples include the Nedcor Phase 2 building (the first building to be officially certified under the Green Star tool) and the Vodafone Innovation Centre (the first building to achieve a 6 star Green Star rating). Recently, we have been advising on the new Green Building Council Head Office in Johannesburg.

### **1.1.2 Audio-visual Engineering**

In the past, Audiovisual System Design has been a grey area where clients or engineers would be reliant on contractors for proposals. The absence of specialist engineers to prepare technical specifications and to evaluate submissions would often lead to tender award decisions being made with insufficient technical justification.

LINSPLACE engineers have identified these challenges and have been entrusted by major clients such as Anglo American, the Department of International Relations and Cooperation, United Nations Office Nairobi, Macquarie South Bank Limited, Total South African Head Office, Loftus Stadium, Sasol, Cape Town Unicity, South African Reserve Bank Head Office, South African Parliament Chamber, NCOP Chamber, Mpumalanga Legislature, Tanzanian Parliament, Council of Johannesburg, DSTV, American School International Johannesburg, Development Bank SA, Free State Legislature, and recently the Johannesburg City Council Chamber, to provide technical specifications - handling the design, tendering process, and implementation of their AV presentation systems, videoconferencing systems, and parliamentary congress and simultaneous interpretation systems.

## **2. COMPANY DETAILS**

### **2.1. History**

#### **Pro Acoustic Devices C.C. 1992-**

Pro Acoustic Devices CC (PAD) was established in 1992 with a primary focus of development and research of architectural acoustic conditioning products, mainly for the broadcasting and music industry in South Africa.

#### **Pro Acoustic Consortium (Pty) Ltd 1999-**

During 1999, due to the increasing awareness of work space functional quality in the commercial building sector and growing requests received for consulting services, the principal engineers of PAD realised that a product independent architectural acoustic consulting services was required. PAD was then closed and the pure consulting services Pro Acoustic Consortium was born.

#### **Renaming: Pro Acoustic Consulting Engineers (Pty) Ltd 2011-**

During 2011, the directors felt that the word “Consortium” was not appropriate. Pro Acoustic Consortium was then renamed to Pro Acoustic Consulting Engineers.

#### **Pro Acoustic - Evolved: LINSPLACE (Pty) Ltd 2015 -**

Pro Acoustic restructured into two separate companies. Ivan Lin starts a new consultancy LINSPLACE in March 2015. LINSPLACE is a professional consultancy offering a User Experience Driven Design approach in Acoustics and AV technologies for Architecture and Interior Spaces.

## **2.2. Registration with professional and associated bodies**

- Member of the Green Building Council
- Engineering Council of South Africa (ECSA)
- South African Institute of Electrical Engineers (SAIEE)
- South African Acoustic Institute (SAAI)
- Audio Engineering Society (AES) (International) (individual registration)

## **2.3. Key technical staff**

### **Ivan Lin Pr.Eng. – Principal Engineer**

Nationality:	South African
Qualifications:	BSc (Eng) Elec (Wits), Pr.Eng (ECSA)
Membership:	Engineering Council of South Africa (ECSA) South African Institute of Electrical Engineers (SAIEE) South African Institute of Acoustics, Senior member (SAAI) Audio Engineering Society (International) (AES)
Position:	Director / Acoustic and Electro-Acoustic Engineer
Specialities:	Radio, Television and Music Studios, Auditorium and Theatres, Corporate offices, Conference facilities, Worship Spaces, Hospitality and Leisure Sector Projects, Environmental Acoustics, Electro-Acoustics

### **Ian Gordon**

Nationality:	South African
Qualification:	BSc Eng (Aeronautics) (Wits)
Position:	Project Engineer
Membership:	South African Institute of Acoustics Engineering Council of South Africa (ECSA)

### **Anton van Wyk**

Nationality:	South African
Previous positions:	Omega Digital project division manager Wild&Marr Technical Director
Current Position:	Associated Audio-Visual System Consultant

## 2.4. CONTACT DETAILS

Website: [www.linspace.com](http://www.linspace.com)  
Telephone number: +27 82 445 6141  
Email address: [ivanlin@linspace.com](mailto:ivanlin@linspace.com)  
Postal Address: PO Box 411145  
Craighall 2024  
Johannesburg South Africa  
Street Address: 141 Boundary Lane  
Sandhurst  
Sandton 2196  
Johannesburg South Africa

## 2.5. ACOUSTIC PROJECTS (CURRENT AND PASS PROJECTS)

### **Auditoriums and Education Spaces**

ABSA Towers North AGORA  
Aga Khan School Tanzania  
American International School Dakar  
American International School Johannesburg:  
Theatre & Arts Court  
Bank of Botswana  
BAOBAB School Lusaka Zambia  
Botswana School of the Performing Arts  
Bowman & Gilfillan new auditorium  
BUSKAID Music School  
Cell C Auditorium  
Conewall Hill College  
Department of Higher Education Standards  
Dainfern College  
Dimension Data Campus Development  
Discovery Health Building, Sandton  
Drakensburg Boys' Choir Auditorium  
Ekurhuleni West TVET College Auditorium  
Ekurhuleni East TVET College Auditorium  
Eskom Simmerpan  
GIBS Lecture Theatres upgrade  
Green School South Africa  
Heronbridge College, Johannesburg  
International School Uganda  
International School Dakar  
International School Tanzania  
Jafza VVIP Auditorium, Dubai  
JSE Building, Sandton  
KPMG Campus: Phase 1  
Lebone School Hall  
Mapulaneng Hospital auditorium  
Midstream College auditorium  
Mmamethlake Hospital auditorium  
National Research Foundation

### **Parliamentary/Council Chambers**

Cape Town Unicity Council Chamber, Cape Town Civic Centre  
Ehlanzeni Council Chamber  
Free State Legislature Chamber  
Johannesburg New City Council Chamber  
Maluti-a-Phofung Council Chamber  
Mpumalanga Provincial Legislature  
National Council of Provinces (NCOP)  
South African Parliament Chamber  
Tanzanian Parliament  
United Nations Office at Nairobi (UNON) Kenya

### **Office and Health Care Buildings**

102 Rivonia Road (Ernst & Young)  
11 Diagonal Street (ex JSE)  
129 Rivonia Road: MMI and ENS  
ABSA Capital Illovo offices  
ABSA Ridgeside Durban  
ABSA Towers West  
ABSA Project X  
ACSA AWPO building  
ACSA Business Gate  
African Medical Centre of Excellence, Abuja Nigeria  
Allen & Overy Sandton  
Ampath Laboratories, Centurion  
Anglo American New Head Offices 144 Oxford Rosebank  
Anglo American New Oxford Parks- Ikhusasa Offices  
Anglo American 44 Main Street  
Anglo American 55 Marshall Street  
Anglogold  
ATNS (Air Traffic & Navigation Services) Ltd.  
Arthur Andersen offices  
Bank of Botswana  
Bank of Ghana

National Olympic Committee South Africa (NOCSA)  
 Nedbank, Menlyn Maine, Pretoria  
 Nedcor North Sandton  
 Newtown Market Theatres  
 Northwest Provincial Legislature Chamber  
 OHR Somayach Synagogue  
 Pretoria Boy's Auditorium – Phase 1 and 2  
 RAU Art Centre  
 Redhill School: Music Centre  
 Sedibeng College  
 Sol Plaatje University – All Campuses  
 St Alban's College, Music School  
 St David's Chapel  
 St Mary's The Edge Performing Arts Complex  
 St Peter's Primary School, Johannesburg  
 St Vincent's School Hall  
 Steinhoff Properties Auditorium  
 Steyn City: School Hall Phase 2  
 Telesure Auditorium  
 Thabo Mbeki Presidential Library  
 UNISA Florida Library  
 UNISA Samuel Pauw Library  
 University of Mpumalanga  
 University of Cape Town HQ Pearson building  
 University of Pretoria: 2012 Lecture Venues  
 University of Pretoria: Engineering III Faculty  
 University of Pretoria: AE du Toit Extension  
 University of Pretoria: AE du Toit Refurbishment  
 University of Pretoria : Groenkloof Campus  
 University of Pretoria: Javett Arts Centre  
 University of Pretoria: Law Faculty buildings  
 University of Pretoria: Engineering III Department  
 University of Pretoria: Study Centre  
 University of Pretoria: IT Atrium  
 University of Pretoria: Engineering IV  
 University of Witwatersrand: Pro Development Building  
 University of Witwatersrand: John Moffat Hall  
 University of Witwatersrand: Music School Auditorium  
 University of Witwatersrand: Film School Cinema  
 University of Witwatersrand: Health Sciences  
 University of Witwatersrand: Smart Classrooms  
 University of Mpumalanga – all campuses  
 University of Mpumalanga Great Hall

#### **Convention Centres**

Botswana Gaborone International Convention Centre  
 International Convention Centre, Swaziland  
 Jafza, Dubai  
 Madinat Jumeirah, Dubai  
 Sandton Convention Centre

Bankserv Africa  
 Barclays Bank South Africa  
 BHP Billiton – 6 Hollard Street  
 B.P. South Africa Head Office  
 Blue IQ Innovation Hub  
 Bowman Gilfillan  
 British High Commission  
 Business Connexion  
 BMW Head Office Midrand  
 BMW Warehouse Extension Midrand  
 Centurion Square  
 Citibank Sandton  
 Covington Offices Johannesburg  
 CSIR offices  
 Debswana BDVC Facility & Technical Facility  
 DELL Head Office Waterfall Midrand  
 Department of Education, South Africa  
 Department of International Relations and Cooperation, New Head Office  
 Department of Rural Development and Land Reform  
 Department of Science and Technology  
 Deutsche Bank Securities, Sandton  
 Dimension Data Campus Development  
 Discovery Health Call Centre KZN  
 Discovery Health Building, Sandton  
 Discovery Health Fun Factory  
 DSTv City new head office  
 DSTV Experience Centre Mpumalanga  
 DSV  
 Edcon Refurbishment  
 Embassy Towers  
 Eris Property Group – Block G  
 Eskom NMC Call Centre  
 Everite Limited  
 Facebook Offices  
 Fairlands Developments: Westbank and FNB Homeloans  
 Finastra  
 FNB Atrium – Port Elizabeth  
 FNB City Fraser Street Upgrade  
 FNB Call Centre – Ferndale  
 FNB Inanda Greens  
 FNB Menlyn Mall  
 FNB Umhlanga  
 FNB Windhoek  
 Global Options Head Office  
 Goldman Sachs Sandton  
 Google Offices, Accra  
 Google Offices, Lagos – as Google inhouse validator  
 Google Offices Johannesburg  
 Gordon Institute of Business  
 Greenhouse, Cape Town  
 Greenstone Multi purpose hall  
 Hannover RE

**Entertainment Venues / Cinemas / Public Spaces**

Country Club Johannesburg Pavillion  
DSTV Cinema  
Barnyard Theatre Pretoria  
British Airways Airport Lounge  
Boardwalk Casino, Conference Centre and Hotel  
Bulwer & New Osizweni Arts Centre  
Emperors Palace Cinemas  
Golden Gate Dino Park  
Germiston Theatre  
Hyde Park Events Venue, Sandton  
International Broadcast Centre for FIFA 2010  
World Cup Soccer  
Jabulani /Soweto Theatre Complex  
Market Theatres  
Northgate MTN Sundome  
Ocean Basket Branches  
Ster Kinekor  
Southdowns Art Theatre  
Southgate Food Court  
United International Pictures (UIP) Preview Cinema

**Hotels, Apartments and Residences**

ACCOR Fairmont Project ICON  
ACCOR Novotel Kinshasa  
ACCOR Novotel Kolwezi DRC  
ACCOR Novotel Lubumbashi DRC  
ACCOR Pullman Airport City Accra Ghana  
Belmond Hotels Group Acoustic Standards  
Boardwalk Casino, Conference Centre and Hotel  
Capital Hotels and Apartments Sandton  
Caesars Casino, convention centre (world trade centre)  
Carnival City Casino, Brakpan  
Elephant Point Hotel  
Embassy Towers Sandton  
Emperor's Casino Arena and Hotel  
Four Seasons Westcliff  
Four Seasons Sound House Naviva Maxico  
Grandwest Casino, Cape Town  
Hilton Canopy ALM Hotel Resort Seychelles  
Hilton Double Tree Asaba, Nigeria  
Hilton Double Tree Addis Ababa, Ethiopia  
Hilton Legend Lagos, Nigeria  
Hilton Double Tree Gaborone  
Hilton Double Tree Mbabane  
Hotel Verde, Zanzibar  
Houghton Apartments and Hotel  
Jafza, Dubai  
Leonardo Legacy, Sandton  
LUX\* Grand Baie Mauritius

Helios Towers - Tanzania  
Helios Towers - Congo Brazzaville  
Helios Towers – DRC  
Hollard Phase II  
Huawei Head Offices  
Illovo Phase 3  
In2Food Offices  
Johannesburg City Council  
JSE Building, Sandton  
KPMG Campus: Phase 1  
KPP  
Lakeside Growthpoint  
Law-on-Keyes  
Liberty Life Head Office  
Lesotho Central Bank  
Macquarie Bank, 1 Sandton Drive SA office  
Mastercard Foundation Ethiopia  
Mastercard Foundation Ghana  
Mastercard Foundation Kenya  
Mastercard Foundation Nigeria  
Mastercard Foundation Rwanda  
Mastercard Foundation Senegal  
Mastercard Foundation Toronto Canada  
Mastercard Foundation Uganda  
Marsh Head Office  
Menlyn Maine Development  
Midstream College  
Midstream Medical College  
Microsoft Johannesburg  
Microsoft Nairobi  
Midrand Vodaworld Auditorium  
Momentum Metropolitan Holdings New Head offices  
MTN Boardroom  
MTN Phase II and Campus Development  
MTN Regional Offices  
MTN Swaziland  
National Council of Provinces (NCOP)  
National Research Auditorium  
Nedbank Lakeview  
Nedbank Phase II  
Nedbank Newtown  
Nedcor North Sandton  
Old Mutual Emerging Markets  
Pan African Parliament  
Peregrine, Katherine Street Towers  
Polifin Auditorium  
Rani Towers Mozambique  
Rand Water Auditorium  
Redefine Offices Sandton  
Rio Tinto Head Office, Johannesburg  
Rosebank Towers – Virgin Active  
SAB Central Office  
SABS Call Centre



Navivia Sound House, Maxico  
 One & Only Cape Town  
 Palazzo Steyn  
 Private Entertainment Facility for Undisclosed  
 High-End Client  
 Private Game Farm for Saudi Royalties  
 Radisson Blue Umhlanga – advisory  
 Radisson Blue Banjul Gambia  
 Radisson One Place Accra Ghana  
 Radisson Red Rosebank  
 Secunda Graceland Casino Complex  
 Steyn City, Johannesburg  
 Sibaya Casino Hotel  
 The Triple Cape Town  
 Tswalu Private Resort for Oppenheimer Family  
 Witbank Casino Hotel

### **Museums**

Anglo Platinum Innovation Centre  
 Freedom Park Phase II  
 Hector Peterson Museum, Soweto  
 National Film, Video and Sound Archives of South  
 Africa, Pretoria

### **Studio Projects**

33 Baker Street, Std Bank Video Studio  
 Atlas Studios Johannesburg  
 Cape Town Film Studios  
 Cube Recording Studios  
 East Coast Radio Studios  
 EMI Powerhouse Studio  
 Frank Studios  
 Gordon Institute of Business Science Video Studio  
 Homestudio Music Studios  
 M'du Records  
 Malawi Broadcasting Corporation - Blantyre  
 M-Net Television Studios, various studios  
 Multichoice AFM Suites and Dubbing Studios  
 National Electronic Media Institute of South Africa  
 Newzroom Afrika Studios  
 Radio Safari  
 RAU Television Studio  
 SABC:  
 Durban studios  
     Music Control Room  
 Johannesburg studios  
     Radio 5 Studios  
     M4 music studios  
     Radio OB Vehicle  
     M4 Music Studio Control Room  
     Henry Video Production and SSL Final Mix  
     Drama Studio  
     M2 music studios

Sappi Boardroom  
 Sasol Head Office  
 Sasol Oil Randburg  
 Smollan Unilever Durban  
 Softline head office, Woodmead  
 South African Institute of Architects (SAIA) Offices  
 South African Blood Bank (SANB) Offices  
 South African Reserve Bank (SARB) Head Office  
 Refurbishment/Upgrade 2020  
 Stauch Vorster Architects Offices  
 Standard Chartered Bank  
 Standard Bank, Morningside College  
 Standard Bank of SA Ltd., Executive meeting room,  
 Johannesburg  
 Standard Bank Rosebank Executive meeting facilities  
 Saint Gobain New Head Offices  
 SAP New Offices AV design  
 South 32 Melrose Acoustic Assessment  
 Standard Bank of SA Ltd. Kingsmead  
 Standard Bank of SA Ltd., Rosebank  
 Statistics South Africa  
 T-Systems Head Office, Midrand  
 Telesure Building  
 Tiger Brands Head Office  
 Upbeat Properties 101 – Total  
 Head Office: Refurbishment  
 Unilever Durban office  
 United Nations Office at Nairobi  
 Vereeniging Town Council  
 Vodacom Florida, Bronberg and Midrand  
 WAICA Re Ghana  
 Wilde-at-Heart: Wonderland and Greenhouse  
 World Bank  
 Zurich Reinsurance, JHB CBD

### **Airport Terminals**

King Shaka Airport, Durban  
 O R Tambo International Airport, Johannesburg  
 O R Tambo ACSA AWPO building  
 O R Tambo ACSA Business Gate  
 Zanzibar T1, T2-2 terminals

### **Places of Worship**

Apostolic Faith Mission, Botswana  
 Bet David, Johannesburg  
 CSI Johannesburg North  
 CSI Kyalami Castle  
 CRC Johannesburg  
 Bethesda Church, Pretoria  
 Christian Family Church, Boksburg  
 Church on the Hill, Nelspruit  
 Delta Church, Moreleta Park  
 God First: City Green

Bloemfontein  
 Music Recording Studio and Control Room  
 Cape Town: Music Recording Studio and Control Room  
 Port Elizabeth studios  
 Scorpio Music  
 Shine Studios  
 SASANI Studios new Stage 1 and 4  
 SASANI Hyde Park Studios  
 Sc-Bono Tv Studio  
 SONY Studios Johannesburg  
 Stark Studios  
 Swaziland Broadcasting Studios  
 Swaziland Broadcasting Corporation  
 Downtown Studios  
 Classic FM SA Radio Studios  
 Primedia 702 and Highveld Studios Johannesburg  
 Radio Algoa On Air Studios  
 The Refinery Video/Audio Studios  
 VIACOM Studios Johannesburg  
 YFM Rosebank Studio complex  
 Universal Music Studios (EMI)

#### **Data Centres / Noise Mitigation Design**

Absa Towers West, Johannesburg  
 Africa Data Centres – Cape Town  
 Anglo Platinum, Rustenburg  
 Dimension Data NTT Samrand JOH1 Data Centre  
 Dimension Data Bloemfontein Data Centre  
 Discovery Fun Factory HVAC, Sandton  
 FNB Menlyn Corner, Pretoria  
 Futuretech JOH1B  
 Green Park Towers HVAC, Morningside  
 Interxion Data Centre Accra Ghana  
 IS Data Centre, Randburg  
 JSE Data Room, Sandton  
 Life Flora  
 Life Wilgehuwel  
 Mediclinic Midstream Generators noise mitigation  
 Sandton City rooftop Development  
 Sci-Bono Laboratory and Lecture Venue, Johannesburg  
 Teraco Data Centres Johannesburg and Cape Town  
 Vantage Data Centres Cape Town  
 WITS Hall 29 Generator Room  
 Zondereinde Power Plant

Gracepoint Church  
 Eastside Community Church, Pretoria  
 Great Park Synagogue  
 NG Studentgemeente  
 NG Communitas  
 Real Life Church  
 Rivers Church, Morningside  
 Rosebank Union Church  
 St Dunstan's Church  
 Tsu-Chi Buddhist Temple Bedfordview Johannesburg  
 Universal Church Kingdom of God, Parkstation

#### **Green Star Surveys and Assessments**

ABSA Towers West, Johannesburg  
 BCX Head Office  
 Centurion Square  
 DSTV Randburg  
 FNB Contact Centre  
 Green Building Council Head office Cape Town  
 Green Building Council Rosebank  
 Hyundai Head Office  
 Illovo Phase 3  
 KMPG Campus, Johannesburg  
 Nedcor Phase 2 building, Sandton  
 SASOL Corporate offices  
 Upbeat Properties 101 - Total  
 Villa Mall, Pretoria  
 Vodafone SSIC

#### **Stadiums**

Loftus Versfeld Stadium Acoustics and Audio/visual Systems upgrade to meet FIFA 2010 requirements.  
 FNB Stadium Acoustic analysis