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## ILUMINAÇÃO NATURAL NA ARQUITETURA

### Breve retrospectiva histórica

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Paulo Scarazzato  
Prof. Dr.  
CAU, IAB, ANTAC, IESNA, CIE, SLL

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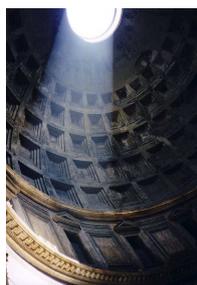
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### Uso da luz do dia

Indissociável da história da arquitetura



Pantheon (Roma, 120-124 DC)



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### Uso da luz do dia

Indissociável da história da arquitetura



Rolex Learning Center (Lausanne, 2010)  
Paulo Scarazzato. Arquivo pessoal

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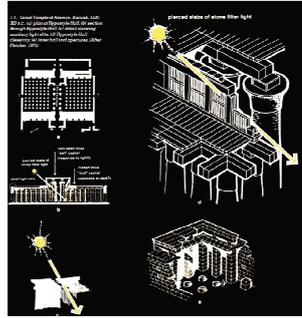
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## Uso da luz do dia

Egito Antigo



Grande Templo de Amon (Karnak, 1530 A.C)

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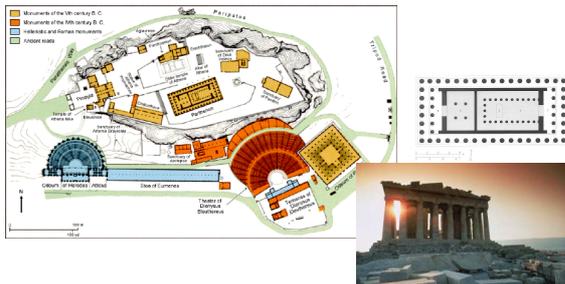
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## Uso da luz do dia

Grécia Antiga



Parthenon( Atenas, 447-432 AC)

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## Uso da luz do dia

Roma Antiga



Pantheon (Roma, 120-127 DC)

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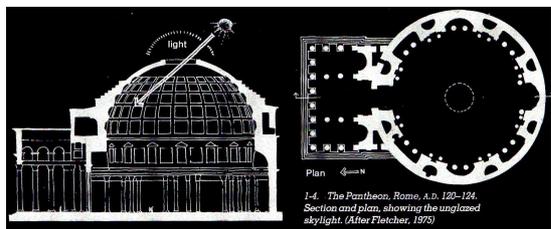
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## Uso da luz do dia

Roma Antiga



Pantheon (Roma, 120-127 DC)

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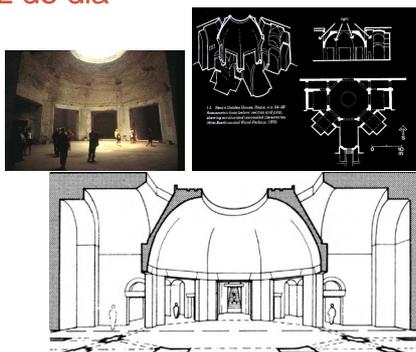
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## Uso da luz do dia

Roma Antiga



Domus Aurea (Roma, 64-68 DC)

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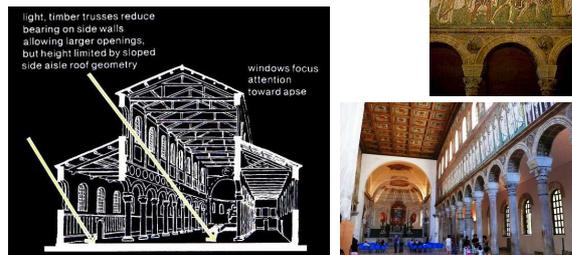
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## Uso da luz do dia

Cristianismo Antigo



Sto. Apolinário(Ravenna, 534-539 DC)

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## Uso da luz do dia

Arquitetura Bizantina



Sta. Sofia (Istanbul, 532 DC)

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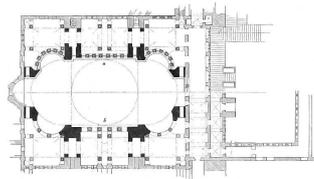
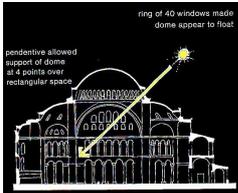
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## Uso da luz do dia

Arquitetura Bizantina



Sta. Sofia (Istanbul, 532 DC)

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## Uso da luz do dia

Arquitetura Bizantina



Sta. Sofia (Istanbul, 532 DC)

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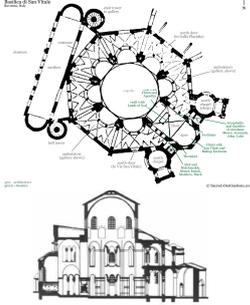
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### Uso da luz do dia

#### Arquitetura Românica



San Vitale (Ravenna, 526-547 )

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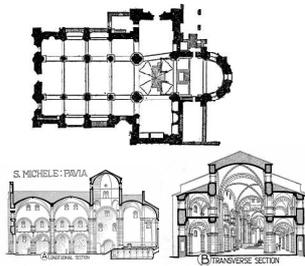
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### Uso da luz do dia

#### Arquitetura Românica



San Michele (Pavia, 1100-1160)

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### Uso da luz do dia

#### Arquitetura Românica



San Zeno (Verona, 1139 )

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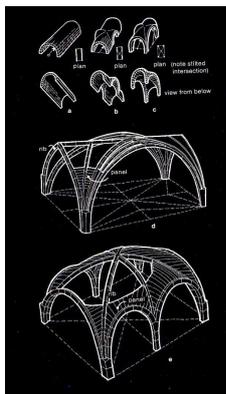
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## Uso da luz do dia

Arquitetura Gótica



Evolução da Abóbada

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## Uso da luz do dia

Arquitetura Gótica



Notre Dame (Paris, 1170)

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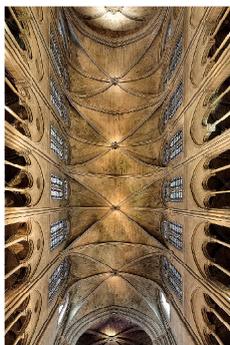
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## Uso da luz do dia

Arquitetura Gótica



Notre Dame (Paris, 1170)

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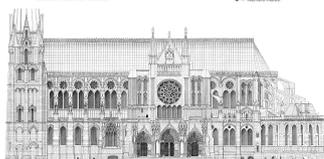
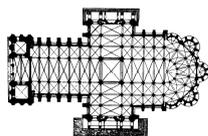
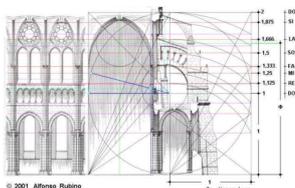
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### Uso da luz do dia

Arquitetura Gótica



Catedral de Chartres(1194)

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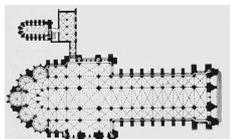
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### Uso da luz do dia

Arquitetura Gótica



Catedral de Reims(1211 )

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### Uso da luz do dia

Arquitetura Renascentista



Palazzo Strozzi, (Florença, 1489)

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### Uso da luz do dia

Arquitetura Renascentista



Santa Maria del Fiore, (Florença, 1436)

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### Uso da luz do dia

Arquitetura Renascentista



Santa Maria del Fiore, (Florença, 1436)

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### Uso da luz do dia

Arquitetura Renascentista



Santa Maria del Fiore, (Florença, 1436)

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### Uso da luz do dia

Arquitetura Renascentista



Basílica de São Pedro, (Roma, 1506-1626)

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### Uso da luz do dia

Arquitetura Barroca



Sant'Ivo alla Sapienza, Roma (Borromini, 1660)

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### Uso da luz do dia

Arquitetura Barroca



Invalides – Jules Hardouin-(Paris, 1706)

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### Uso da luz do dia

Arquitetura Barroca



Catedral de Toledo (Espanha, 1732)

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### Uso da luz do dia

Arquitetura Barroca

Michelangelo apresentando o modelo da Basílica de São Pedro ao Papa Paulo IV

Domenico Cresti Passignano (1558-1638)



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### Uso da luz do dia

Barroco Brasileiro



Igreja de Santo Antonio (Tiradentes, Sec.XVIII)

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### Uso da luz do dia

Barroco Brasileiro



Igreja Nossa Senhora do Carmo (Ouro Preto, Sec.XVIII)

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### Uso da luz do dia

Barroco Brasileiro



Igreja de São Francisco (São João del Rei, Sec.XVIII)

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### Uso da luz do dia

Modernismo



Walter Gropius e Adolf Meyer. Fábrica Fagus, 1913

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## Uso da luz do dia

Modernismo



Bauhaus, Walter Gropius, 1919

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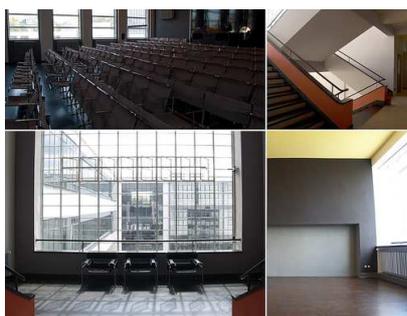
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## Uso da luz do dia

Modernismo



Bauhaus, Walter Gropius, 1919

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## Uso da luz do dia

Modernismo



Frank Lloyd Wright, Museu Guggenheim, Nova Iorque, 1958

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## Uso da luz do dia

Modernismo



Frank Lloyd Wright, Museu Guggenheim, Nova Iorque, 1958

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## Uso da luz do dia

Modernismo



Frank Lloyd Wright, Johnson Wax Building, Wisconsin, 1939

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## Uso da luz do dia

Modernismo



Villa Savoye, Le Corbusier, 1929

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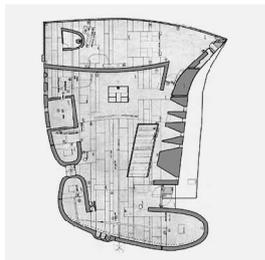
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Uso da luz do dia



Notre Dame du Haut, Le Corbusier, 1954

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Uso da luz do dia



Le Corbusier. Notre Dame du Haut, 1955



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Uso da luz do dia



Alvar Aalto, Casa do arquiteto, Finlândia, 1936



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Uso da luz do dia



Alvar Aalto, estúdio do arquiteto, 1955

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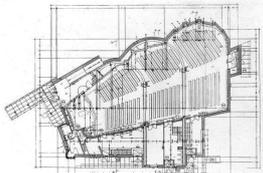
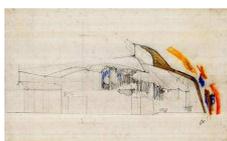
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Uso da luz do dia



Alvar Aalto, Igreja de Vuoksenniska, 1958

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Uso da luz do dia



Alvar Aalto, Biblioteca em Mount Angel, Oregon 1970

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### Uso da luz do dia



Kimbell Art Museum, Louis Kahn, (Texas, 1972)

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### Uso da luz do dia

Modernismo



Exeter Library, New Hampshire, Louis Kahn, 1972

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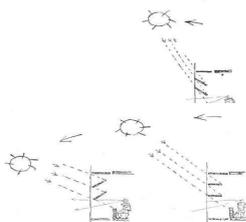
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### Uso da luz do dia

Modernismo



MEC, Rio de Janeiro, 1942

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## Uso da luz do dia

Modernismo



Gregory Warchavchik. Casa Modernista à Rua Santa Cruz, São Paulo, 1928

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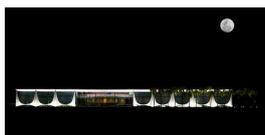
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## Uso da luz do dia

Modernismo



Oscar Niemeyer. Palácio da Alvoradas, Brasília, 1958

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## Uso da luz do dia

Arquitetura Contemporânea

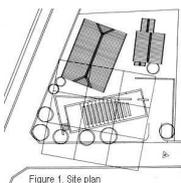


Figure 1. Site plan



*A criação do espaço na arquitetura, é simplesmente a condensação e purificação do poder da luz*

Tadao Ando. Igreja da Luz, Ibaraki, Japão, 1989

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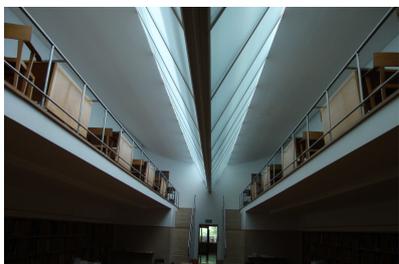
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### Uso da luz do dia

Arquitetura Contemporânea



Álvaro Siza. Biblioteca da FAUUP, 1996

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### Uso da luz do dia

Arquitetura Contemporânea



Álvaro Siza. Biblioteca da FAUUP, 1996

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### Uso da luz do dia

Arquitetura Contemporânea



Álvaro Siza. Biblioteca da FAUUP, 1996

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### Uso da luz do dia

Arquitetura Contemporânea



Norman Foster. Commerzbank - Frankfurt, 1997

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### Uso da luz do dia



Norman Foster. Commerzbank - Frankfurt, 1997

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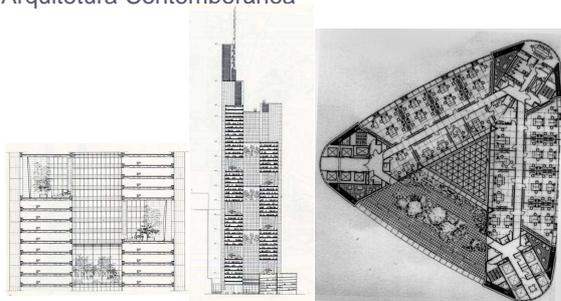
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### Uso da luz do dia

Arquitetura Contemporânea



Norman Foster. Commerzbank - Frankfurt, 1997

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### Uso da luz do dia

Arquitetura Contemporânea



Norman Foster. Commerzbank - Frankfurt, 1997

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### Uso da luz do dia

Arquitetura Contemporânea



John Pawson. Mosteiro N.S. de Novy Dvur, República Checa, 2004

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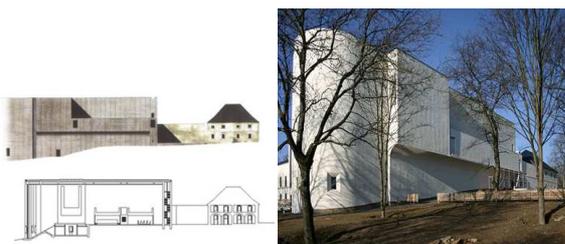
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Arquitetura Contemporânea



John Pawson. Mosteiro N.S. de Novy Dvur, República Checa, 2004

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## Uso da luz do dia

Arquitetura Contemporânea



John Pawson. Mosteiro N.S. de Novy Dvur, República Checa, 2004

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## Uso da luz do dia

Arquitetura Contemporânea



ALVARO SIZA- FUNDAÇÃO IBERÊ CAMARGO, PORTO ALEGRE 2008

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## Uso da luz do dia

Arquitetura Contemporânea



ALVARO SIZA- FUNDAÇÃO IBERÊ CAMARGO, PORTO ALEGRE 2008

Rampas contínuas - percurso dinâmico, **aberturas pontuais** com vista para o Rio Guaíba.

**A iluminação exigiu estudos cuidadosos:** o átrio é o principal receptor e condutor de luz natural. A claraboia no terraço permite a percepção das salas e a visão global do interior

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### Uso da luz do dia

Arquitetura Contemporânea



ALVARO SIZA- FUNDAÇÃO IBERÊ CAMARGO, PORTO ALEGRE 2008

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### Uso da luz do dia

Arquitetura Contemporânea



SIDONIO PORTO- Fábrika em Cajamar, SP - 2001

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### Uso da luz do dia

Arquitetura Contemporânea



SIDONIO PORTO- Fábrika em Cajamar, SP - 2001

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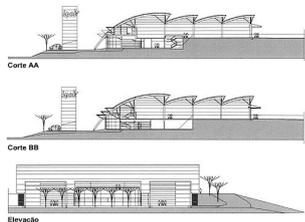
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## Uso da luz do dia

Arquitetura Contemporânea



SIDONIO PORTO- Fábrica em Cajamar, SP - 2001

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## Uso da luz do dia

Arquitetura Contemporânea



SIDONIO PORTO- Sede Administrativa da Petrobrás em Vitória, ES

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## Uso da luz do dia

Arquitetura Contemporânea



SIDONIO PORTO- Sede Administrativa da Petrobrás em Vitória, ES

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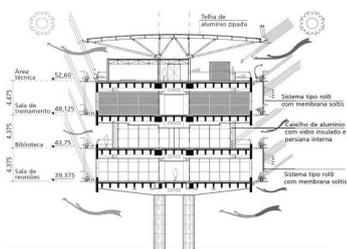
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## Uso da luz do dia

Arquitetura Contemporânea



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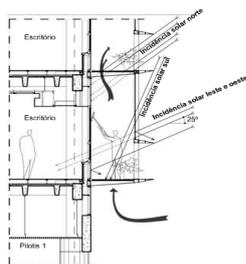
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## Uso da luz do dia

Arquitetura Contemporânea



SIDONIO PORTO- Sede Administrativa da Petrobrás em Vitória, ES

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## Uso da luz do dia

Arquitetura Contemporânea



Rolex Learning Center. Lausanne, Suíça, 2010  
Projeto: SANAA

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## Uso da luz do dia

Arquitetura Contemporânea



Rolex Learning Center, Lausanne, Suíça  
Foto: Paulo Scarazzato, arquivo pessoal

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## Uso da luz do dia

Arquitetura Contemporânea



Rolex Learning Center, Lausanne, Suíça  
Foto: Paulo Scarazzato, arquivo pessoal

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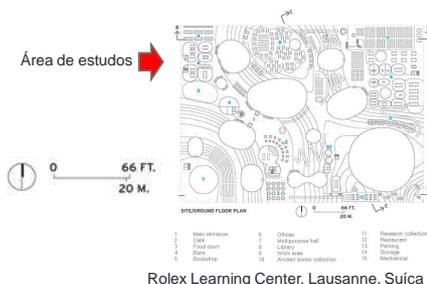
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## Uso da luz do dia

Arquitetura Contemporânea



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## Uso da luz do dia

Arquitetura Contemporânea



Rolex Learning Center, Lausanne, Suíça  
Foto: Paulo Scarazzato, arquivo pessoal

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## Uso da luz do dia

Arquitetura Contemporânea



Rolex Learning Center, Lausanne, Suíça  
Foto: Paulo Scarazzato, arquivo pessoal

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## Uso da luz do dia

Arquitetura Contemporânea



SEBRAE BRASÍLIA  
Grupo SP e Luciano Margotto

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## Uso da luz do dia

Arquitetura Contemporânea



SEBRAEBRASÍLIA  
Grupo SP e Luciano Margotto

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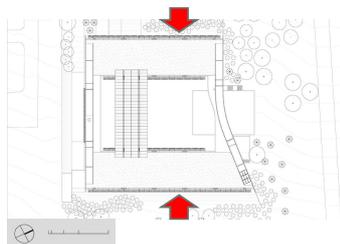
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## Uso da luz do dia

Arquitetura Contemporânea



SEBRAE BRASÍLIA  
Grupo SP e Luciano Margotto

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