

12 voids

The transportation difficulties between the site and the city of Barcelona led to the construction of a new industrial complex of the same company in Montcada i Reixach, near Barcelona (1917) which eventually led to the closing of the factory in Casellar de'n Hug.

Despite the historical interest in the previous architecture (Catalan brick vaulted ceilings) and the magnificence of the surrounding landscape, the complex is currently in an advanced state of decline.

Twelve spaces of opportunity have been detected inside the factory complex with a strong inherited potential to nest a postindustrial activity.



bay code	01
precedent function	clinker storage
area (m2)	365
relative enclosed coverage (%)	19
relative site coverage (%)	5
aspect ratio (1)	0.4
volume (m3)	5399
width (m)	23.9
length (m)	12.2
height (min)	14.8
base elevation (m)	6.6
roof elevation (m)	21.4
relative elevation (%)	29
floor material	original terrain
wall surface (m)	1246.16
wall max thickness (m)	1.9
wall min thickness (m)	0.65
wall material	limestone
opening count (n)	24
opening surface (m2)	8.3
opening surface total (m2)	199.2
void/solid ratio (%)	16
access points (n)	2
truss span (m)	12.2
truss count (n)	11
truss max depth (m)	1.6
truss material	cast iron
roof geometry	sloped vaults
roof layering	ceramic triple layer vaulted
roof condition	good



bay code	02
precedent function	refining mills
area (m2)	250
relative enclosed coverage (%)	14
relative site coverage (%)	4
aspect ratio (1)	0.5
volume (m3)	1996
width (m)	21.7
length (m)	11.5
height (min)	8
base elevation (m)	10.6
roof elevation (m)	18.6
relative elevation (%)	46
floor material	original terrain
wall surface (m)	1009
wall max thickness (m)	0.86
wall min thickness (m)	0.44
wall material	limestone
opening count (n)	12
opening surface (m2)	4.8
opening surface total (m2)	49.9
void/solid ratio (%)	5
access points (n)	4
truss span (m)	12.2
truss count (n)	3
truss max depth (m)	2.6
truss material	cast iron
roof geometry	double curved sloped
roof layering	ceramic triple layer vaulted
roof condition	small repair



bay code	03
precedent function	cement silos
area (m2)	514
relative enclosed coverage (%)	27
relative site coverage (%)	7
aspect ratio (1)	1.1
volume (m3)	8023
width (m)	21.7
length (m)	23.7
height (min)	15.6
base elevation (m)	0
roof elevation (m)	15.6
relative elevation (%)	0
floor material	original terrain
wall surface (m)	1416.48
wall max thickness (m)	2.3
wall min thickness (m)	0.86
wall material	limestone
opening count (n)	14
opening surface (m2)	3.7
opening surface total (m2)	51.8
void/solid ratio (%)	4
access points (n)	5
truss span (m)	5.7
truss count (n)	5
truss max depth (m)	0.8
truss material	reinforced concrete
roof geometry	flat
roof layering	ceramic triple layer vaulted
roof condition	good



bay code	04
precedent function	sacking plant
area (m2)	196
relative enclosed coverage (%)	11
relative site coverage (%)	3
aspect ratio (1)	0.4
volume (m3)	1728
width (m)	21.7
length (m)	9.05
height (min)	8.8
base elevation (m)	0
roof elevation (m)	8.8
relative elevation (%)	0
floor material	original terrain
wall surface (m)	541.2
wall max thickness (m)	0.86
wall min thickness (m)	0.6
wall material	limestone
opening count (n)	3
opening surface (m2)	20
opening surface total (m2)	69
void/solid ratio (%)	11
access points (n)	2
truss span (m)	12.2
truss count (n)	5
truss max depth (m)	2.6
truss material	cast iron
roof geometry	sloped vaults
roof layering	ceramic triple layer vaulted
roof condition	good



bay code	05
precedent function	coal storage
area (m2)	174
relative enclosed coverage (%)	9
relative site coverage (%)	2
aspect ratio (1)	1.7
volume (m3)	521
width (m)	10.1
length (m)	17.2
height (min)	3
base elevation (m)	23
roof elevation (m)	26
relative elevation (%)	100
floor material	original terrain
wall surface (m)	163.6
wall max thickness (m)	0.86
wall min thickness (m)	0.6
wall material	limestone
opening count (n)	3
opening surface (m2)	6.1
opening surface total (m2)	18.22
void/solid ratio (%)	11
access points (n)	2
truss span (m)	10.1
truss count (n)	7
truss max depth (m)	1.6
truss material	cast iron
roof geometry	double curved sloped
roof layering	ceramic triple layer vaulted
roof condition	good



bay code	06
precedent function	coal storage
area (m2)	149
relative enclosed coverage (%)	8
relative site coverage (%)	2
aspect ratio (1)	1.5
volume (m3)	447
width (m)	10.1
length (m)	14.75
height (min)	3
base elevation (m)	18.5
roof elevation (m)	21.5
relative elevation (%)	80
floor material	original terrain
wall surface (m)	149.1
wall max thickness (m)	0.86
wall min thickness (m)	0.6
wall material	limestone
opening count (n)	3
opening surface (m2)	8.5
opening surface total (m2)	25.55
void/solid ratio (%)	17
access points (n)	2
truss span (m)	10.1
truss count (n)	6
truss max depth (m)	1.6
truss material	cast iron
roof geometry	double curved sloped
roof layering	ceramic triple layer vaulted
roof condition	good



bay code	07
precedent function	cylinder mill
area (m2)	118
relative enclosed coverage (%)	6
relative site coverage (%)	2
aspect ratio (1)	1.2
volume (m3)	355
width (m)	10.1
length (m)	11.72
height (min)	3
base elevation (m)	10.24
roof elevation (m)	13.24
relative elevation (%)	45
floor material	original terrain
wall surface (m)	130.92
wall max thickness (m)	0.86
wall min thickness (m)	0.6
wall material	limestone
opening count (n)	3
opening surface (m2)	3.9
opening surface total (m2)	11.57
void/solid ratio (%)	9
access points (n)	4
truss span (m)	10.1
truss count (n)	5
truss max depth (m)	1.6
truss material	cast iron
roof geometry	double curved sloped
roof layering	ceramic triple layer vaulted
roof condition	good



bay code	08
precedent function	drying rotating cylinder
area (m2)	88
relative enclosed coverage (%)	5
relative site coverage (%)	1
aspect ratio (1)	0.9
volume (m3)	285
width (m)	10.1
length (m)	8.73
height (min)	3
base elevation (m)	9.04
roof elevation (m)	12.04
relative elevation (%)	59
floor material	original terrain
wall surface (m)	112.98
wall max thickness (m)	0.86
wall min thickness (m)	0.6
wall material	limestone
opening count (n)	3
opening surface (m2)	4.2
opening surface total (m2)	12.7
void/solid ratio (%)	11
access points (n)	2
truss span (m)	10.1
truss count (n)	4
truss max depth (m)	1.6
truss material	cast iron
roof geometry	double curved sloped
roof layering	ceramic triple layer vaulted
roof condition	good



bay code	09
precedent function	refining ball mill
area (m2)	94
relative enclosed coverage (%)	5
relative site coverage (%)	1
aspect ratio (1)	0.9
volume (m3)	282
width (m)	10.1
length (m)	9.3
height (min)	3
base elevation (m)	5.42
roof elevation (m)	8.42
relative elevation (%)	24
floor material	original terrain
wall surface (m)	116.4
wall max thickness (m)	0.86
wall min thickness (m)	0.6
wall material	limestone
opening count (n)	0
opening surface (m2)	0
opening surface total (m2)	0
void/solid ratio (%)	0
access points (n)	2
truss span (m)	10.1
truss count (n)	4
truss max depth (m)	1.6
truss material	cast iron
roof geometry	double curved sloped
roof layering	ceramic triple layer vaulted
roof condition	good



bay code	10
precedent function	dc dynamo generator
area (m2)	61
relative enclosed coverage (%)	3
relative site coverage (%)	1
aspect ratio (1)	0.6
volume (m3)	184
width (m)	10.1
length (m)	6.08
height (min)	3
base elevation (m)	5.42
roof elevation (m)	8.42
relative elevation (%)	24
floor material	original terrain
wall surface (m)	97.08
wall max thickness (m)	0.86
wall min thickness (m)	0.6
wall material	limestone
opening count (n)	3
opening surface (m2)	6.1
opening surface total (m2)	18.22
void/solid ratio (%)	19
access points (n)	2
truss span (m)	10.1
truss count (n)	3
truss max depth (m)	1.6
truss material	cast iron
roof geometry	double curved sloped
roof layering	ceramic triple layer vaulted
roof condition	good



bay code	11
precedent function	sacking plant
area (m2)	96
relative enclosed coverage (%)	5
relative site coverage (%)	1
aspect ratio (1)	0.9
volume (m3)	287
width (m)	10.1
length (m)	9.47
height (min)	3
base elevation (m)	0
roof elevation (m)	3
relative elevation (%)	0
floor material	original terrain
wall surface (m)	117.42
wall max thickness (m)	0.86
wall min thickness (m)	0.6
wall material	limestone
opening count (n)	1
opening surface (m2)	6.74
opening surface total (m2)	6.74
void/solid ratio (%)	6
access points (n)	2
truss span (m)	10.1
truss count (n)	4
truss max depth (m)	1.6
truss material	cast iron
roof geometry	double curved sloped
roof layering	ceramic triple layer vaulted
roof condition	good



bay code	12
precedent function	rotating ovens
area (m2)	96
relative enclosed coverage (%)	5
relative site coverage (%)	1
aspect ratio (1)	0.9
volume (m3)	287
width (m)	10.1
length (m)	9.47
height (min)	3
base elevation (m)	0
roof elevation (m)	3
relative elevation (%)	0
floor material	original terrain
wall surface (m)	117.42
wall max thickness (m)	0.86
wall min thickness (m)	0.6
wall material	limestone
opening count (n)	1
opening surface (m2)	6.74
opening surface total (m2)	6.74
void/solid ratio (%)	6
access points (n)	2
truss span (m)	10.1
truss count (n)	4
truss max depth (m)	1.6
truss material	cast iron
roof geometry	double curved sloped
roof layering	ceramic triple layer vaulted
roof condition	good

