Α

Abbreviations 1

Absorption area 482, 483

Access 139, 146

Access control system 17, 119 Access principles 139 Accessible building 21 ff. Accessible housing 23

Accessible lift 134

Accident and emergency 291, 299

Acoustic reflector 221 Acoustics 220, 221, 223

Additional technical contract conditions 61

Administration 231 Advertising displays 502 Aeroplane category 423 Air conditioning 242

Air conditioning plant room 531 Air conditioning system 531

Air curtain 115 Air freight 418 Air gap 90

Air handling equipment 531

Air humidity 37

Air recirculation system 530

Air terminal 485 Air-water systems 530 Airborne sound 478

Airborne sound insulation 477, 478

Airport 419

Airport regulations 418

Airside 421 Aisle, theatre 212 Akebia 434

Alignment (photovoltaics) 467

All-purpose room 157 Almemor 288 Alphabet, Greek 1 Altar 285 Altar rail 286 Altar steps 285

Alternative science 36 Anaesthetic devices 302

Anastylose 50

Animal house (zoo) 229 Animal Welfare Law 455

Annual heating energy demand 475
Application documents, building permit 59

Apron (airport) 419, 422 Apron (theatre) 212 Apron conveyor 267 Apron roadway 422 Aquarium 229 Arable farming 447 Arcade 254 Archaeology 51

Architect's contract 57 Archives 237, 252

Archery 348

Archives room 238

Area of additional building regulations (airport) 417

Area pay desk (retail) 257 Area surveillance 119

Armchair 11

Armoured glass 107 Aron Hakodesh 288 Art library 250 Art teaching 192 Artificial ice rink 344

Assisted flat for the elderly 168 Asymmetrical bars (gym) 365 At-grade crossing 381

Athletics 326

Atrium house 143

Audience row (theatre) 212 Audience seating 212

Auditorium 198, 200, 211, 212, 222, 219, 222, 223

Auditorium width 211
Autobahn 378
Aviation Law 371, 418
Aviation Noise Law 418
Award procedure (contract) 61

Awning 500 Azimuth 488, 490

В

Baby grand piano 11

Baby ward 308

Backing-up (drainage) 527 Back-ventilation 473 Background ventilation 529 Badminton 322, 356

Bakery 278
Baking table 190
Balance beam 353
Balcony 155

Ball catching area (bowling) 361

Ball cupboard 357

Ball throwing safety (glass) 109

Ballet 216

Balustrade height 120 Bank building 253

Bank formation (earthworks) 452

Bank support 439 Banquet 176

Bar chart (scheduling) 62

Barn 446

Barn (chickens) 455 Basic module 35 Basement tanking 72 Basic services (contract) 57

Basic SI units 2 Basketball 320, 332 Bath 11, 160 Bathroom 160 ff. Batter angle 67, 428, 442

Batteries 16 Battery tank 535

Beach football tennis 322
Beach handball 322
Beach volleyball 322
Beachminton 322
Beam grillage 91
Bed 11, 158
Bed lift 131, 295
Bed preparation 313
Bedroom 157
Beef cattle pen 458
Belfry 287
Bell 287

Bell diameter 287
Bell diameter 287
Bell parameters 287
Bell self-weight 287
Bell tower 287
Bell weight 287

Benches 67
Bentonite waterproofing 72

Berlin ventilation 539 Bicycle ergometer 358, 359

Bicycle room 165 Bicycle stands 384

Bicycle storage/parking 362, 384

Bidet 11

Bill of quantities 61 Billiards 357 Biogas 465

Biological engineering 439

Biomass 465

Biometric identification 117

Bistro 176, 179 Bitumen tanking 72 Boards (lecture theatre) 201 Block development 138

Block heating and power system 468, 470

Blood samples, taking 290

BMX 347

Boat storage hall 336 Boathouse 339 Bob track 344 Boccia 331

Body current density 48 Body measurements 28 Bonded screed 83

Bookshelves 202, 247, 249 Book transport (system) 248, 250

Book trolley 250
Bored pile system 67
Boulder wall (climbing) 360
Boundary frequency 477
Boundary reference 35
Bowling alley 361
Box (theatre) 211, 223
Box partition (horses) 459
Box room 162, 177
Boxing ring 356

Bramble, wire support 437 Break area 194, 238 Break-in resistance 107

Bramble 434

Breakfast place setting 174

Breakwater 334

Breeding cage (rabbits) 462

Brick formats 75
Bricklaying bond 76
Bridge for dampness 71
BS (British Standards) 548
Buffer cylinder 468
Building biology 36
Building costs 48
Building description 53
Building drawing 6 ff.
Building element cooling 242

Building element cooling 242
Building envelope 464
Building excavation 66
Building excavation batter 67

Building law code 56

Building mass number 63

Building notification procedure 59

Building orientation 241

Building permit (application) 59 Building preferred numbers 34

Building research 53
Building services 522 ff.
Building supervision 59
Built environment 46
Bullet-proof glass 107

Burglar alarm (systems) 17, 118 Buried earthing electrode 486

Bus 406

Bus dimensions 409 Bus stop lay-by 409 Bush layering 440 Butcher's shop 261, 280

С

Cable connection 15 Cable conveyor 287 Cable lift 128

Cable run (playground) 190

Café 178

CAFM (computer-assisted facility management) 49

Camping and weekend site 187 Cancer research centre 206

Canoe 339 Capillary water 71 Car lift 396 Car port 166

Card game machine 375

Care 305 ff. Care area 291, 295 Care home 169

Care of contagious children 308

Care room 169 Care unit 308 Carpenter's shop 275

Carrel 249

Cartesian coordinates 20

Cascade 443

Cash desk 235
Cashpoint 253
Cast glass 108
Cast-iron radiator 533
Catering 186 ff., 314
Cavity walls 75
CCTV surveillance 17
Ceiling chase 8
Ceiling grid 502
Ceiling heating 534
Ceiling lighting 502
Ceiling opening 8
Ceiling uplighter 505
Cell passage (mortuary) 424

Cellar neck 120 Cemetery 424, 425, 426 Cemetery chapel 424, 425 Central checkout 257 Central corridor 145 Central cylinder 137

Central ventilation system 539
Central washing-up area 317
Centralised lock suites 117
Centre for the elderly 178
Centre-hung door 10
Centre-line reference 35
Ceramic floor covering 84
Chamber music hall 219

Chancel 285

Chandelier palmette (plant training) 432 Changing area 363, 364, 367, 368

Changing room 272 Changing room bench 363 Changing station (railway) 403

Chargeable costs 57 Checkout chain 257

Checkout with after-sale belt 257 Checkout with feed belt 257

Chest freezer 151 Chicken coop 452, 455 Chicken keeping 447

Chicken keeping in small groups 455

Child's bed 11

Children's after-school care 188, 189

Children's care 308, 310

Children's daycare centre 188, 189

Children's tennis court 327 Children's ward 310 Chilled beam 530 Chimney 532, 537, 538 Choir dressing room 216 Choir rehearsal room 217

Choir seating 220 Church building 285 Church seating 286 Cinema 222, 223 Cinema auditorium 224 Cinema seat 223 Circuit diagram 16

Circulating chain conveyor 267

Circulating parker 396

Circus 227 Circus ring 227 Cistern 436 CityLight poster 417 Classroom 191, 195, 202 Classroom area 191, 192

Clay 425

Clean room laboratory 203

Clematis 434 Client 48

Climate in animal housing 451

Climate region 474
Climbing aid 433
Climbing hall 360
Climbing plants 433
Climbing rose 434
Climbing strawberry 434
Clinical medical service 299

Cloakroom 367 Cloakroom seating 354 Closed sales 254

Clothes locker 11, 272, 363 Clothes storage 11, 159 Clubhouse 332, 338 Cluster (classrooms) 195 Coarse gravel 428 Cobigolf 330 Coffin 421

Cold façade 112
Cold kitchen 180
Cold laboratory 204
Cold portioning 181
Cold roof 92
Collar roof 86

Collection of basic information 58 Collection, museum 207, 208

Collector pipe 522 ff.

College 198

Cologne ventilation 539 Colour 41, 507 Colour circle 31

Colour reproduction 495, 498, 499, 506

Columbarium 425

Column-mounted slewing crane 267

Combi office 234, 239 Combi steamer oven 182 Combination pool 368 Combined branch pipe 524

Combined heat and power (CHP) 467 Combined large field (athletics) 324

Combined pool 365

Combined transport (freight) 413 Commentator's cabin 318 Commercial letting area 63 Communal area (school) 194 Communal changing room (pool) 363

Community hospital 312 Compact fluorescent lamps 502

Compact kitchen 150

Compact sauna 372, 373 Compact storeroom 250 Competition stage (sport) 353 Complex layout (museum) 208

Composite rafter 87

Compression cylinder lift 133 Computer assisted drawing 20

Computer display 20 Computer room 191

Computer workplace 191, 236 Concentrated feed (farm) 449 Concert grand piano 11 Concert hall 219, 220, 221 Concrete retaining wall 431

Condensate 472 Condition room 359 Conductor (lightning) 485 Conference area 238

Confessional, confession room 286 Connection value (drainage) 522, 523

Conservation 50, 51 Construction costs 65 Construction product list 512 Construction and fittings grid 206

Construction floor area 75 Consultation room 290 Container (freight) 269, 413 Continued fractions 31, 33 Continuous conveyor 267

Contract award 61
Control of daylight 496
Convector 531, 533, 534
Convector in recess 534
Conversion 50, 54
Conveyor belt 267
Cook and chill 181

Cooling (renewable energy) 469

Cooling ceiling 530 Cooling plant room 316 Cooling room (sauna) 384, 385 Cooperation diagram (hospital) 293 Coordinates, Cartesian 20

Coordinates, Cartesian 2 Coordinates, polar 20 Coordination system 35 Coping (wall) 431 Corbusier, Le 33

Cordon (plant training) 432 Correction factor k (lighting) 508 Correction factor table 508

Corridor 148
Corridor width 148
Cost calculation 65
Cost estimate 65
Cost forecast 65
Costume store 215

Couch 11

Council building (university) 200

Counter 250, 260 Coursed masonry 74 Courtyard garden house 139 Cow cubicle 457 Cow pen 457 Cowshed 458 Crèche 188, 189

Cow 457

Cremation 424 Cremation room 424 Crematorium 424 Crockery return 180

Croquet playing field 321

Cross bond 76 Crossing lights 408 Cubicle 367, 367 Cue holder 357 Cultivator 448 Curling 345 Currant bush 437 Curtain wall 78, 245

Curtain walling with fire protection glass 112

Cut-out 8
Cycle polo 320
Cycle way 382
Cycle way width 384
Cyclocross 347
Cyclopean masonry 74
Cyclorama scaffold 220
Cylinder lock 117

D

Dairy farming, cows 447, 457

Dark room 204 Data exchange 20

Day centre for the elderly 168

Day clinic 311 Daylight 485

Daylight area, minimum 102 Daylight distribution 496, 497 Daylight duration 490

Daylight lighting 488, 496, 497, 498 Daylight quotients 493, 495, 498 Daylight-enhancing lighting 496, 498

Deanery (university) 198
Deck access 140
Decorative bond 76
Decorative well 301

Deep tank (animal waste) 459
Deep water zone (pond) 451
Degree of reflection 498, 507
Degree of sound absorption 482

DEHOGA (German hotel association) 172

Demolition 46 Department store 254

Depot 207

Description of works 61

Design 42, 58

Design value (thermal insulation) 474

Desk ventilation 201

Destination floor control system (lift) 129

Detached house 139, 144

Detached house access 139
Detached housing development 139

Detail drawing 60
Detailed design 60
Development plan 56
Diagonal triangle 31
Dialysis 294
Diaphragm walls 67
Diazo paper 5

Diesel generator set 465 Diffuse reflection 44 Dimension line 7

Dimensional basics and relationships 26

Dimensioning 6, 7

Dimensioning of pipework 523

Dimensions 6, 7

DIN (German Institute for Standardisation) Standards 548

Dining area 154 Dining room 193 Dining table 154, 174 Disc harrow 448

Discharge factor (drainage) 522, 526

Discharge lamps 502

Discharge location (sewage) 536

Discus circle 326

Discus throwing 323, 324 Dishwasher 151, 179 Dispensary 313 Display (area) 207, 208 Disturbance level (cinema) 222

Diving boards 366 Diving facilities 365, 366

Diving pool 362 Doctor's practice 290

Donkey 459

Door 10, 125, 126, 127, 128 Door in one-piece lining 114

Door leaf 114

Door with recessed frame 114 Dormer window 85, 102

Double bed 11

Double bowling alley 361
Double checkout 257
Double church 286
Double cinema 226
Double garage 166
Double grave 425
Double office 235
Double room 172
Double sink 11, 151
Double washbasin 11
Double window 10

Double-decker lift 129

Dovecote 452 Doves 452

Downhole heat exchanger 469

Downlight 505
Drafting machine 19
Drag chain conveyor 267
Dragon boat 339

Drainage 72, 436 Drainage layer 72 Drainage pipe 12 Drainage system 522 Drawing aids 19

Drawing board 19

Drawing by hand 19

Drainpipe 72, 522

Drawing edge reinforcement 5 Drawing for construction 60

Drawing paper 5 Drawing standard 5 Drawing, good practice 19

Dressage 342 Drilling 67

Drinking trough 453, 460

Drinking water refilling system 436

Drive-in cinema 226 Driving simulator 375 Dry fodder 449 Dry storage marina 335

Dry stone wall 431 Duck 452 Dung heap 450 Dung pit 450

Dwelling, accessible 23, 24 Dynamic stop (trams) 407

Ε

Earth filter system 451 Earth pressure 70

Earthing electrodes 485, 486

Earthing tape 486 Earthworks 428 ff. Echo 482

Ecological farming 457
Elastic floor construction 352
Electrical consumer appliances 14

Electrical device 16

Electrical installation 14, 15, 16, 317

Electrocardiogram 290
Electrochromatic units 108
Electrodes (lightning) 485, 486
Electromagnetic field 38
Electronic access control 117
Electronic means of identification 117

Electrosmog 36, 38
Emergency exit 117
Emergency power room 465
Emergency staircase 246

Emergency supply (hospital) 297, 299

Emptying sound 480 End pressure 70 End-bearing pile 70 Endoscopy 299 Energy 46

Energy consumption value 476

Energy pass 476

Energy Saving Regulation (EnEV) 99, 471, 474

Energy supply concept 469 English bond 76 Entrance (flat) 146 Entrance (shop) 256 Entry of sunlight 492 Envelope area factor 475

Environmental Impact Assessment (EIA) 418

Equatorial degree 555 Equinox 490 ff.

Equipment room (pool) 365

Equipment room (sports hall) 351, 352

Ergonomic couch 374 Escalator 126, 259, 407, 415

Escalator width 126

Escape route 97, 139, 241, 246, 255, 511

Escape route width 197

Espalier 432 Espalier wire 432 EU Eco Directive 456, 457

Europallet 269 Evacuation plan 217 Evacuation time 318 Excavation support 67 Exercise pool 374 Exit (retail) 255

Experimental theatre 217

Extension line 7 External deck 140

External works, drawing symbols 8

Extractor hood 151 Extraction system 529 ff.

F

F-glazing 111, 516

Façade ventilation systems 531 Facility management 48, 49 Fall protection (stadium) 319

Falling door 128

Family changing room 363

Family grave 425 Family sauna 373 Farmyard 443 Fascine 440 Fast food outlet 177 Fattening bullock 455

Federal Environmental Agency (FEA) 442

Fee Regulations for Architects and Engineers (HOAI) 57

Fee zone 57

Feed mixing station 454

Feed rack 453 Feeding pen 459 Feeding table 460 Fences 242, 430 Fences, obligations 430 Fencing piste 321

Festspielhaus (Bayreuth opera house) 210

Field barn 449 Field density 38 Field of view 40 Field of vision 40 Filing 237 Fill (soil) 437

Filling and emptying sound 480

Filter trench 533 Final cost statement 65 Final energy demand 475, 476 Final water depth (pool) 367 Finger bar (restaurant) 178 Finger position, correct 19 Finished dimensions 34 Finishing beef cattle 458 Fire alarm system 118 Fire brigade 283 Fire brigade lift 246 Fire compartment 255

Fire door 116

Fire hazard (class) 520 Fire prevention 511

Fire compartment wall 513

Fire propagation speed 519 Fire protection board 514 Fire protection glazing 111, 516 Fire safety, high-rise 246

Fire sliding door 116 Fire station 284

Fire-resistant door set 517

Fireplace 538 Fish counter 261 Fish shop 261 Fistball 320

Fitness room 358, 359

Flat roof 91

Flat roof access 122 Flat shelving system 269 Flat water zone 442, 444 Flipper (pinball game) 375 Floating quay 335 Floating screed 83 Floodlighting 508

Floor construction 352 Floor cupboard 151 Floor downlighter 505 Floor gymnastics hall 352 Floor slab 80, 266 Floor-area ratio 63 Flowing floor plan 143 Flowing work sequence 149 Fluorescent tubes 502 Fly box (skateboarding) 346 Fodder 449

Fodder beet 449 Fodder harvest 449 Fodder provisions 449 Foil pond 439 Folders 4 Folding desk 291 Folding door 115, 256 Folding partition 10 Folding scheme (drawing) 5 Folding seat 201 Global radiation 494, 501 Folding sizes (drawing) 5 Goat 453 Folding stairs 122 Goat keeping 453 Font 285 Goat shed 453 Food serving system 182 Golden section/ratio 30, 32 Foot bath 372, 373 Golf course 331, 332 Foot disinfection point 363 Goods and underfloor lift 134 Football 320, 321, 322 Goods security system 119 Football pitch 318 Goods traffic 413 Football tennis 322 Goods wagon 413 Footpath 382, 435 Goose 452 Forklift truck 281, 562 Gooseberry bush 437 Formal dinner place setting 174 Grab barn 449 Foundations 66, 69 Grade-separated crossing 381 Framework for climbing plants 432 Grand piano 11 Grass cycle polo 31 Free flow 180 Freezer 151 Grave 425 Gravel 428 French curves 19 Gravel cover layer 92 Fresh food supermarket 258 Gravestone 425 Front-loader 448 Fuel cell 470 Great hall (university) 198 Fuel type 11 Greek alphabet 1 Fume hoods 204 Green façade 433 Fun pipe (skateboarding) 346 Greengrocer's shop 261 Greenhouse 441 Functional diagnosis 299 Grid 7 Functional neutrality 135 Grid dimension 240 Funeral room 425 Grid lighting 503 Furnishing (shop) 260 Furniture area (retail) 235 Grid module 240 Grocer's shop 265 Gross built volume 63 G Gross floor area 63 Ground failure 67 G-glazing 111, 516 Ground moisture 71 Gallery access 144 Ground source energy 469 Game dealer 265 Ground transport network 419 Garage 166 Groundwater aquifer 36 Garden pond 442 Groundwater sample 67 Gas heating boiler 18 Groundwater table 67, 68 Gas installation 18 Groundwater well 469 Gas meter 18 Group box (horses) 459 Gas pipe 18 Group office 233, 239 Gas storage water heater 18 Group practice 290 Gas supply 18 Group room (school) 191 Gas supply plant room 316 Group room, children's daycare centre 188, 199 Gastronorm system 179, 181 Grouped room floor plan (flat) 145 Gauge (railway) 408, 410, 411 Grubber 448 GEFMA (German Facility Management Association) 49 Guest house 173 General care 305 Guest room 175 General care ward 307 Gutter 89 General hospital 291 Gymnastic bench 353 General technical contract conditions 61 Gymnastic horse 353 Geothermal collector 469 Gymnastics hall 352 Geothermal heat exchanger 529 Glare 495, 496, 499

Н

Half pipe 346

Halogen light bulb 501

Hammer throwing 323, 324, 326

Hammer circle 326

Glare limitation 507

Glass 104 ff.

Glass block 110

Glass properties 104

Glare prevention 496, 498, 499

Glare prevention angle 506

'Hot desk' office 234, 239 Handball 320, 322 House sauna 372 Handling (airport) 421 Handrail height 120 House services 238 House supply connection 18 Handrail profile 122 Hands-off (zoo) 229 Housing area 136 Hands-on (zoo) 229 Housing area regulations 67, 136 Housing subsidy regulations 136 Hanger (roof) 86 Harmonica door 115 Hub and spoke 418 Hurdles 324, 325 Hay 449 Hay storage 449, 460 Hurdles track 325 Hay tower 449 Hydrangea 434 Header course 76 Hydraulic engineering construction 334 Hearse 421 Hydraulic lift 128, 133 Heat exchange 471 Heat gain 475 Heat loss 473, 475 Heat pump 469 ICAO (International Civil Aviation Organisation) 418 Heat rays 494 Ice dancing 345 Heat recovery 526, 527 Ice hockey 344 Heating 469, 532 ff. Ice skating 344, 462 Heating boiler 468 Impact pane 99 Heating oil storage 535 Impact sound 477, 479 Heating room 18 Impact sound insulation 479 Heating surfaces 529, 532, 533, 534 Inch 555 Heating system 532 Indiaca playing area 368 Heavy horse 459 Indian horse (playground) 190 Hen 452 Individual dimensions 34 Hexagon 30 Indoor athletics hall 355 Hexagonal classroom 195 Indoor cycle polo 320 High bar 353 Indoor football 321 High jump 323, 324 Indoor handball 320, 321 High jump pit 325 Indoor hockey 321 High silo 449 Indoor netball 321 High-bay warehouse 269 Indoor public pool 362, 365, 368, 369 High-pressure discharge lamps 499 Indoor swimming pool 362 ff. High-rise building 244 High-rise building regulations 246 Induction 48 Industrial building 265 Hinge strap conveyor 267 Industrial doors 116 Hinged casement 10 Hinged door 256 Industrial trucks 267 Industrial unit building 265 Historic building list 52 Industry 267 ff. HOAI (Fee Regulations for Architects and Engineers) 50, 57 Inn with food 176 Hobby room (school) 195 Installation shaft 208 Hockey 320 Holiday home 185 Installation sound 477 Home for the elderly 168 Insulated glazing 108, 109 Honeysuckle 434 Insulation 9, 78, 90, 92 Hop 434 Intensive care area 391 Horizontal storage (archives) 237 Intensive care room 309 Horizontal structure (hospital) 293 Intensive medicine 309 Horizontoscope 493 Intensive treatment room 309 Horse 341, 459 Internal cladding 90 Horse keeping, singly/in groups 459 Internal deck 140 Horseshoe throwing 321 Internal insulation 92 Hospital 291 ff Intrusion detection 108 Hot kitchen 180 Intrusion detector 119 Hot water cylinder 529 Investigation and treatment room 90 Hotel 171 ff. Island pay desk 257 Hotel lobby 171 ISO A paper formats 31 Hotel restaurant kitchen 178 Isotope laboratory 206

lvy 434

Hotel room 171, 172

J	Layout, factory building 263
	Layout plan, official 66
Javelin area 326	Lead wall 360
Javelin throwing 323, 324	Lectern 285
Joinery 216, 274	Lecture theatre 199
Just-in-time production 268	
out in time production 200	Lecture theatre form 198
	Lecture theatre seating 201
K	Lecture theatre size 199
	LED lamps 502
Kayak 339	Lending counter (library) 250
Kilogram 555	Letting office space 231
Kindergarten 188, 189	Level, levelling (foundations) 66
Kindergarten after-school care 188	Levels (drawings) 6
Kitchen 149 ff., 196	Library 196, 202, 259 ff.
•	Life-cycle assessment 48
Kitchen area 179	Life drawing class 198
Kitchen bar 154	Life expectancy of buildings 50
Kitchen fittings 154	Lifeguard's room 365
Kitchen type 150	Lift 128 ff., 407
Kitchen with dining area 150	Lift car 133
Kitchenette 149, 150	Lift control 129
Kiwariho method 32	
Krainer wall 436	Lift emergency call system 119
	Lift group 246
	Lift machinery room 130 ff.
L	Lift shaft 130
	Lift shaft access 130
Laboratory 203 ff., 291	Lift, glazed 134
Laboratory bench 204, 205	Lifting platform 227
Laboratory equipment 204	Lifting podium 212
Laboratory workplace 203, 204	Light 503
Labyrinth layout (museum) 208	Light band 103
Ladder feed rack 454	Light bulb 501
Laminated glass 104	Light colour 507
Lamp 501 ff.	Light deflection 106
Lamp luminous flux 508	Light density contrast 498
Lamp systems 501	Light direction 507
Lamp type 503	Light distribution 503
Land mile 555	Light dome 103
Land use planning 56	Light fitting materials 507
Land use regulation 56	Light reproduction 507
Land use plan 56	Light shelf 496
Landing 120	Light transmittance 104
Landing strip 419	Light type 503
Landscape design 427	Light wall 110
Landscape protection support plan 418	Lighting 510 ff.
Landside 421	Lighting arrangement 506
Lane (bowling) 361	Lighting calculation 508
	Lighting intensity 507
Language laboratory 191	Lighting Intensity 507 Lighting level 507
Larder 165	
Large restaurant kitchen 180, 181, 182	Lighting symbols 501
Large slab paving 435	Lighting type 505
Large-area spreader 448	Lightning protection 16, 485
Lattice beam 87	Lightning protection zone 487
Laundry 281, 282	Line type 7
Laundry supply (hospital) 315	Line widths 7

Linear accelerator 303 Linear chaining (museum) 208

Linear concept (airport) 419

Linear structures (roof) 94

Linen cupboard 159

Lawn 438

Layer factor 472

Laying coop 452 Laying hen 455

Laying nest 452

Liquid slurry 450

Liquid slurry channel 450 Listed building protection 52

Listener curve 198 Liturgical element 285

Living room/area 160

Load-bearing construction 95

Loading bridge 462 Loading wall 260 Loading yard 461 Loam 428 Lobby (house) 147 Lock suite 117

Loft window 102 Log cabin construction 78

Logatom 482

Loggia 155

Long and triple jump pit 325 Long jump 323, 324 Long spirit level 66

Loop layout (museum) 220

Loudspeaker 223 Loudspeaker posts 226

Low and high pressure ventilation (laboratories) 204

Low-smoke layer 519 Low-temperature heating 469 Low-voltage halogen lamps 502

Luminance 501, 507 Luminance distribution 507 Luminous flux 507

Luxury hotel 173

М

Machinery and equipment hall (farm) 448

Magnetic flux density 38 Main corridor 296 Main stand 318

Maintenance (building) 50

Make-up 216 Make-up artist 216 Make-up room 216 Manger element 458 Marina 338

Massage couch 290, 374

Massage room 372, 374

Mast cable 15
Mat trolley 356
Maternity 294, 303
Mathematical symbols 1
Measuring stick 66
Meat processing plant 279

Mecca 289

Mechatronic cylinder lock 117 Media centre (school) 193 Media desk (lecture theatre) 201

Meeting room 176 Meeting zone 235

Mercury vapour lamp (high pressure) 502 Mercury vapour lamp (low pressure) 502 Meridian degree 556 MERO spaceframe 31 Mesh conveyor 267

Metal vapour halogen high-pressure lamps 502

Metalwork 276 Metre 26, 555 Micro brewery 258 Middle bond 76 Mikva 288 Mile 55 Minaret 289

Mineral fertiliser 448 Mineral pool 374 Miniature golf 329 Minigolf 330 Mirach wall 288

Mixed filter (drainage) 72

Mixed masonry 74

Mobile shelf unit (archives) 249 Model building regulations (MBO) 56

Model pane 106

Model programme for schools 196 Modernisation (buildings) 50 Modular construction dimension 34

Modular coordination 35

Modulor 27 Monorail hoist 267 Mooring 335, 336 Mooring post 334 Mortuary 421 Mosaic flooring 84 Mosaic paving 445 Mosque 289 Motel 186

Motorhome park 187 Movement area 23, 235 Moving table 267 Moving walkway 127 Multi-car lift 129

Multi-chamber sedimentation tank 536 Multi-chamber septic tank 536 Multi-storey building 140, 142, 266

Multi-storey car park 404 ff. Multiple nodule 35 Multiplex cinema 224, 225 Museum 207, 208 Music teaching 192

Ν

Narrow formats 4

Narrow-gauge railway 409 ff. National technical approval 512 National technical test certificate 512

Natural camping site 187 Natural stone masonry 74 Natural stone slab 84 Natural swimming pool 443 Neighbours' rights 430 Nesting box (poultry) 452

Net built volume 63 Net floor area 63 Netball 320

Newborn baby care 308 Night flights regulations 418

Night safe 253
Nodes (airport) 418
Noise vestibule 199
Nominal dimension 34
Non-aviation area 421
Non-swimmer pool 365, 367
Non-ventilated pitched roof 93

Northlight glazing 265 Nuclear medicine 291

Nursery 188
Nurses' station 207
Nursing mothers 308

0

Object lighting 506

Obligation to obtain building permission 59 Obstruction limitation areas (airport) 420

Octagon 31
Office depth 234
Office form 239
Office structure 232
Office work 231
Office, reversible 233
Oil firing 532

Oil tank 535 One flat per floor 142

One-piece steel door lining 118

Open dewatering 68 Open floor plan 143, 155

Open sales 254

Open shelving (library) 247

Open stage 216
Open-air classroom 195
Open-air enclosure (zoo) 229
Open-air surveillance 118, 119
Open-air swimming pool 371ff.
Open-plan office 233, 239

Opening 8
Opening inward 98
Opening outward 98
Opera 210, 214

Operating theatre 301, 302

Operation 301

Operations control centre 301

Orchestra 220 Orchestra member 216 Orchestra rehearsal room 217

Organ 220 Orientation lighting 501

Original format 4
Ornamental glass 108

Ounce 555

Outpatients 291, 297

Outpatient operations (day surgery) 297

Outpatient medical centre 297 Outline building permission 59

Oven 11, 151

Overall resistance (insulation) 471

Overflow gutter 370 Overground tank 450 Overhead line system 406

Owner-occupied House Allowance Law 136

Р

Pace length 29 Pad foundation 69 Paddling pool 365, 367 Paint scheme 41

Paint spraying workshop 280 Painting room (theatre) 216

Palladio, Andrea 32 Pallet 269

Pallet 209
Pallet rack 269
Pallet truck 267
Pane format 106
Panel radiator 533
Panic door 117
Panorama lift 134
Panorama mask 493
Pantry 162

Paper formats 4
Paper shredder 464
Paper, cutting 19
Parallel bars 353
Parallel runway 419
Parking cylinder 399
Parking platform 398
Parking shelf 399
Parking spaces 393
Parking system 398
Parking tower 399
Parklift 397
Parquet floor 83

Partial water vapour pressure 472

Passenger 407 Passenger lift 130, 131 Passenger traffic 418

Passing width (stairs) 120, 122 Pastoral care (hospital) 312 Path of the sun 489, 490, 492

Pathology 300 Paths 435

Patient bath 306, 307
Patient cupboard 306
Patient lounge 307
Patient room 305, 306
PC room (university) 202
Pedestrian traffic 407
Pellet heating 468
Pentagon 30
Pentagram 30
Pergola 432

Pharmaceutical supply 325

Photo laboratory (school) 192, 204

Photovoltaics 467 Physical units 2 Physiotherapy 303

Piano 11

Picking (warehouse) 268
Picture format (cinema) 222
Picture projection 222
Picture size 222
Pier concept (airport) 422
Piglet production 447
Piled foundations 70

Pint 555 Pipe sound 480 Pipe ventilation 523 Pipe vine 434

Pipelines for fire-fighting water 518

Pipework 9, 522, 526 Pitch of stairs 121 Pitched roof 86 Place setting 154, 174 Planar structure (roof) 91 Planked lane (bowling) 361

Planning 56

Planning diagram 263

Planning drawings regulation 56

Plants 432 Plant support 433 Planting time 437, 442 Plaster room 302 Plastics laboratory 203 Platform (station) 407, 416, 417

Platform trolley 267 Play (theatre) 210 Playhouse 190, 213 Playground equipment 189

Playing area (sports) 320, 322, 323, 324, 326

Plot coverage ratio 63

Plough 448

Plunge pool 372, 373, 374

Plus roof 92
Podium 213
Podium area 199
Point lighting intensity 507
Points (reilway) 412

Points (railway) 412
Polar coordinates 20
Pole vault 323, 324
Pole vault pit 325
Polygon 32
Pommel horse 353

Pony 459 Pool length 367

Pool pallet (warehouse) 269 Pool perimeter 365, 367

Pool table 375

Pool types (sauna) 374 Portioning kitchen 181 Posts (roof) 86

Post room 238

Postoperative patient monitoring 302

Pot washing 180

Potty room 189 Poultry dealer 261 Pound 555

Poured concrete construction 88

Practical laboratory 203 Pram room 165

Prayer hall 288, 299 Pre-cast concrete element 266

Precision stage 53
Prefabricated pool 442
Prefabricated roof truss 87
Prefabricated screed 83
Preferred number 54
Preliminary design 58
Preliminary phase 61

Preliball 320
Preparation room 301
Primary energy 471, 474,
Primary school 196
Primary structure 483
Private Building Law 57

Probing 67

Production, industrial 264
Production forms 264
Production sequence 264
Profiled glass 109
Project development 48
Projection (lecture theatre) 201
Projection building (cinema) 226

Projection cabin 226 Projection of tie beam 87 Projection room 222, 226

Projection wall height (lecture theatre) 201

Projection wall width 201 Projector (cinema) 222 Property management 49 Proportion figure 33 Proportion rule (theatre) 223 Proscenium height 212 Protected contact (zoo) 229

Protection of ancient monuments 51, 52

Protection of existing use 52 Psychiatric care 310, 311 Public Building Law 56 Public library 247, 250 Public rooms (theatre) 217 Public swimming pool 362 ff. Public transport 406

Public transport Pull cylinder 128 Pull-out table 11 Pulpit 285, 289 Pump sump 68

Pumping system (drainage) 522

Punch ball 356 Purlin roof 86 Pythagoras 30

Pythagorean triangle 30

Q

Quay 335

R

Rabbit hutch 453 Racing gig 339 Radar damping 112 Radiation therapy 303 Radiators 532, 533 Radiaesthesia 36

Radiological diagnosis 300

Raft foundation 69 Rafter roof 86, 87 Rail profiles 406 Rail transport 408-412 Rain storage tank 436 Rainwater 522, 523, 526, 527

Rainwater butt 436 Rainwater drainage 526 Rainwater management 436 Rainwater run-off 526 Rainwater storage tank 436 Ramp 121, 123, 194, 393

Ramp arrangement 226 Ramp height, theatre 212 Ramp width, minimum 396 Ramp slope angle 392

Rapid urban transport railway 403

Raspberry 437 Raspberry planting 437 Raster22® 417 Reading place 249 Reading room 247 Reading workplaces 202

Rebuilding 50

Reception 171, 290, 299

Reception building, railway station 415

Reconstruction 50 Recooling plant 316 Recovery room 301 Rectangle 31

Refrigerated display case 20

Refurbishment 50 Regatta course 340 Regional Planning Law 56 Regulated building product 512 Rehearsal room 216, 217 Rehearsal stage 217

Reinforced concrete pre-cast element 88

Relative humidity 472 Relaxation room 372-374 Renewable energy 466 Rented offices 234 Repacking checkout 257 Repair 50, 73, 79, 81 Replacement (of building) 46 Research laboratory 206 Residential density 137 Residential quality 137 Residential surroundings 139

Restaurant 176

Restaurant kitchen 178-180 Restaurant with finger bar 178 Restoration (of building) 50, 51

Retail Regulations 255 Retaining wall 431 Retirement flat 168 Reverberation 219, 221

Reverberation time 222, 223, 482

Revetment 439 Revetment wall 439 RFID chip 117 Riding facility 341 Riding track 341

Right-angled isosceles triangle 31

Ring support frame 353

Riser 122 Roads 376 ff. Road categories 377 Road cross-section 377, 380

Rock slope 439 Rocking horse 190 Rod earthing electrode 486

Roller 445 Roller conveyor 267 Roller door 116 Roller skating rink 345 Rolling shelves 252 Rolling stock 407 Roman numerals 1

Roof 85 ff. Roof boarding 90 Roof construction 90, 94 Roof covering 86, 88 Roof drainage 527 Roof glazing 104 Roof planting 96 Roof stairs 122 Roof truss 86

Roof waterproofing 95 Rooflighting 497

Rooflighting, light quality 497 Room acoustics 220, 482 Room areas (drawings) 6 Room climate 37

Room climate, museum 207

Room division 135 Room features 172 Room numbers 6 Room schedule 57 Room surveillance 122 Room theme 42 Room volume 220 Rotating seats 201

Round tour, loop (museum) 208

Roundabout 381 Routeing 259 Row grave 425 Row width (theatre) 215 Rowing basin 339 Rowing boat 339 Rowing machine 358 Rubbish chute system 463 Rubble masonry 74

Rugby 320 Run-up field 324 Run-up track 323 Running track 323–325 Runway 419

S

Sabine formula 482 Saddle room 341, 460 Sofo 253

Safe 253
Safety space 379
Sales area 255
Sales counter 261
Salomonic temple 288
Salon grand piano 11
Salt-water pool (sauna) 374

Samba stairs 122 Sanctuary 188 Sand 425 Sandpit 190

Sanitary facilities 194, 354, 364, 365, 367

Satellite office 239
Sauna 371 ff.
Sauna cabin 372–374
Sauna oven 372

Saw-tooth loft window 103

Scale 6

Scanned image 40 Scenery store 215 Scenery workshop 216 Schleuderball 321

Schools 191 ff.

School building guidelines 194

School kitchen 193 School library 193 Scientific library 247, 251

Scissor lift 469 Screed 83

Screen (cinema) 222, 223 Screw conveyor 267

Sea mile 555

Seat row 223, 226, 319, 354 Seat step (stadium) 319 Seat width (stadium) 319 Seating 201, 203

Seating arrangement 286

Secondary structure (acoustics) 484

Section, showing on plan 6

Sectional door 116 Sectional radiator 533 Security training 107 Security glazing 107 Security systems 17 See-saw 190

Seepage (rainwater) 71, 436

Seepage water 71 Self-cleaning glass 106 Self-service buffet 178 Self-service cafeteria 177 Self-service restaurant 176, 178

Self-service shop 262 Semi-detached house 139 Seminar rooms 176 Senior doctor 307 Sepaktakraw 322

Separation/compensation layer (roof) 92

Servery 180, 182, 196
Service area 179
Service contract 57
Service counter (library) 262
Service shaft (laboratory) 217
Service support point (catering) 176
Service unit (hospital) 312
ServicePoint (station) 415

Set square 19 Setback area 64 Setting out 66 Settlement 67 Sewer 522

Shadow construction 491, 493 Shadowing 495, 496, 498

Shaft 130 Shaft plan 133 Shaft ventilation 451

Sheep 454

Sheep shed, housing 454 Sheet size (drawing) 5 Sheet steel pile construction 67

Sheet steel pile wall 334 Shelf 260, 269 Shelf spacing 2, 281 Ship's ladder 134 Shoe-removal bench 363 Shooting range 348

Shop 254 ff. Shop window 256

Shoplifting protection system 129

Shopping arcade 255 Shopping centre 254 Shopping trolley 260 Short pen 458

Short-term care department 169

Shot put 323, 324, 326 Shot put bar 326 Show jumping ring 342 Shower 11, 161 Shower room 161, 364 Shuffleboard 321 SI units 2, 3 Side gutter 361

Side-hung door 115, 256

Sideways-opening sectional door 116 Sight line construction 212, 319 Signal and radio device 14 Signalling system 407

Silage 449 Silage heap 449 Sill height 97 Silver lace vine 439 Simplified building approval process 59

Single box, open stable 459

Single boxes 459 Single checkout 257 Single lift 131 Single office 235 Single pen 457

Single practice (doctor) 293

Single room 172

Single room, radiation protected 310 Single ventilation system 529

Single window 10 Single workplace 235 Single-bed room 305, 308

Single-button collective control (lift) 129 Single-case approval (fire protection) 512

Single-leaf walls 75 Single-room offices 233, 239 Single-row office block 241 Single-shaft ventilation 539

Sink 11, 151 Skateboarding 346 Sketching 19 Sketching paper 19 Ski jump 343 Skimmer 371, 374

Skin friction (foundations) 70

Skittle alley 361 Slab chase 8

Slab construction 80, 91

Slab groove 8 Slab opening 8 Slat conveyor 267 Slide 190, 267 Slide house 190

Sliding door 10, 115, 116, 128, 256

Slipway 334 Slope 428, 439 Slope design 439 Slope support 428, 439 Slot machine 375 Slurry pit 450

Slurry tank wagon 447 Small animal hutch 449 Small dimension 34 Small field (athletics) 336 Small multi-storey car park 397 Small rubble paving 435

Small sewage treatment plants 536 Smoke and heat extraction systems 519

Smoke apron 519 Smoke extract 103

Smoke extraction systems 519

Smoke layer 519 Snack bar 176, 178, 179 Snail (geometry) 31 Snail (playground) 190 Social interaction area 139 Social services (hospital) 312

Sodium vapour high-pressure lamps 502

Sofa 11

Soft gel base 78 Softball/rounders 321

Softball/rounders throwing area 324

Soil, definition 428
Soil improvement 429
Soil investigation 67
Soil loosening 429
Soil sample 67
Soil stack 522 524 50

Soil stack 522, 524, 526 Soil water production 536

Solar cell 467

Solar control glass 105, 106 Solar position diagram 489 Solid fuel boiler 468

Solid manure production 450 Soloist's dressing room 216

Sound 221, 477

Sound absorption 477, 480 Sound insulation 100, 477 Sound insulation class 100

Sound level 477 Sound louvres 287 Sound pressure 477 Sound reduction 111, 477 Sound reproduction 223, 226

Sound system 222 Source ventilation 252 Spa 373, 373

Space frame 31, 91

Space requirements 28, 174, 175

Space-saving stairs 122
Spacing of lights 506
Spacing of tree planting 376
Special contract conditions 61
Special services (contract) 57
Special wastewater 527
Specialised supermarket 254
Specialised shop 254
Specialist hospital 291
Speciality restaurant 179
Spectator arrangement 355
Spectator facilities 319, 358, 365

Spectator place 358

Speech comprehension 489

Spiral ramp 396
Spiral stairs 120, 123
Spit level 140
Sports hall 328, 350 ff.
Sports hall glazing 109
Sports venue 318
Spotlight 505, 506
Sprayed ice rink 344
Springboard 366
Sprinkler system 520
Sprocket 87
Sprung horse 353
Square 30, 33
Square mile 555

Square planting 433

Storey height 242 Square root 31 Storey slab 80 Squares (garden design) 435 Straight edge 66 Squash 357 Straw storage 460 Stable passage 459 Stream cross-section 442 Stables 459 Street furniture 394 Stacker 287 Street lighting 501 Stacking 139 Stacking box 269 Street space 376 Streetball 320 Stacking goods 557 Stretcher bond 76 Stadium 318 f. Stretcher course 76 Staff area (restaurant kitchen) 180 String line 66 Staffed cloakroom 272 Strip footing 69 Stage 209, 212, 220 Strong room 253 Staged filter (drainage) 72 Structural dimension 34 Stair flight length 120 Structural glazing façade 116 Stair width 318 Structural sound transmission 479 Stair with ramp 123 Structural window opening 97 Staircase 120 Structure-borne sound 477, 481 Stairs 10, 120 ff., 407, 415 Strutted purlin roof 86 Stairs, clearance gauge 121 Student building 200 Stairs, legally essential 120 Student hall of residence 167 Stairs, minimum dimensions 120 Stunt riding space 341 Stairs with landing 121 Subsidiary rooms (industry) 272 Stand 354 Subsoil 428 Stand roofing 319 Suite (hotel) 172 Standard cross-section 380 Summer solstice 488, 490-492 Standard formats 4 Sun height curve 490 Standard structure gauge 411 Sun input factor 474 Standard tractor 448 Sun position 488 ff. Standardised drawing 5 Sun protection 498-500 Standing place 319 Sunshine 493 Standing slot machines 375 Sunshine duration 488, 494 Standing water 71 Supermarket 262 Star-shaped earthing electrode 486 Supervision of construction 62 Start-up centres 234 Superyacht 338 Starting block 365 Superyacht marina 338 State building regulations (LBO) 56 Supply area (hospital) 313 State library 247 Supply system (laboratories) 205 Statement printer 253 Support for climbing plants 432 ff. Station 404, 423 ff. Support of construction 62 Station passage 415 Surface air film 472 Steel belt conveyor 267 Surface heating 533 Steel radiator 533 Surface resistance 468 Steel tube radiator 533 Surgery 291, 301, 305 Steeplechase 323, 325 Surveillance equipment 121 Step detail 123 Surveillance system 122 Step profile 122 Surveying existing building 53 Stepped house 139 Sustainability 46, 47 Stepped ramp 123 Sustainable architecture 46 Stepped sink 11 Sustainable building 46 Stereo optical sound system 223 Swimmers' pool 365, 367 Sterile goods room 301 Swimming lane 367 Sterile goods supply 313 Swings 202 Sterilisation 291 Synagogue 288 Sterngolf 330 Système International d'Unités (SI) 2, 3 Still image 40 Stomach muscle board 358, 359

T

T-square 19 Tabernacle 285

Stone block step 432

Stored goods 557

Stop (train/bus/tram) 404, 405 Storage 215, 268, 315 Table 11, 154

Table arrangement 175, 191, 192

Table size 176
Table tennis 357
Tailor's shop 280

Take-off and landing charge 418

TAMbeach 322

Tapered lane (bowling) 361

Tea room 178
Teaching room 192
Technical drawing 5
Technical function area 63
Telecommunications 317
Telescopic door 115
Telescopic lifting door 116
Television shop 280
Temperature 555

Temperature correction factor 475

Temperature curve 471
Temporary exhibition 207

Tender 61 Tennikoit 321 Tennis 322, 327 Tennis court 327 Tennis hall 328 Tennis wall 327 Tent 187

Tent method 433 Terminal (airport) 419

Terrace, terraced house 139, 141

Theatre 32, 209 ff.
Theatre building 209, 210
Theatre design 209
Theatre space 213
Thermal bridge 473, 474
Thermal bridge supplement 475
Thermal conductivity 471

Thermal insulation 78, 90, 99, 92, 472 Thermal insulation double glazing 109

Thermal mass 475
Thermal pool 374
Thermal resistance 471
Thermal transmittance 471, 475
Three-purpose theatre 210
Three-row office block 241
Three-section sports hall 352
Three-wheeled trolley 267
Through-flow cooker 182
Through-flow roaster 182

Throwing circle 326 Throwing field 324 Ticket office 226 Ticket machine 415

Tilting window 102

Timber framed construction 78

Timber measures 554 Tipping angle 446 Title block 5 Toboggan run 344 Toilets, see WCs Tolerances, structural openings 99

Top rope wall 360 Topography 42 Topsoil 428, 438, 445 Topsoil protection 428 Total theatre 210

Toughened safety glass 104

Town house 139

Track and chain conveyor 267 Track and field 323, 324 Track bed (railway) 406, 408 ff. Track radius (railway) 408 Traction sheave lift 128

Traffic and escape route (schools) 194

Traffic area 63, 194 Traffic calming 385 Traffic space 379 Tram 406

Tractor 190, 448

Tram stop island 407 Translocation 50

Transmission heat loss 475
Transmitted heat demand 471

Transparent paper 5

Transparent thermal insulation 106
Transport capacity 126, 131, 267
Transport, goods (industry) 267
Transport technology (industry) 267
Transporter concept (freight) 422
Transverse wave (sound insulation) 477

Travel Centre 415 Travel speed 133 Travellift 338

Travelling overhead crane 267

Tray trolley 182
Tread 120
Tread surface 122
Treatment room 307
Tree staking 438
Trial pit 67
Triangle 30, 31, 33

Triangular planting 433, 437 Triangular roof structure 87

Triple jump 323
Trumpet vine 434
Trussed construction 91
Tuning-up room 216

Turf 440

Turning circle 392, 401 Turning head 392 Turning place 392, 409 Turnstile (retail) 256

Two-button collective control (lift) 129 Two-room housing (goats) 453

Two-row office block 241 Two-sided living 140 Two-wheeled barrow 279

Type area 6 Type of boat 345 Typology 54

U

Underfloor convector 543 Underfloor heating 543 Underfloor lift 146 Underground railway 415

Underlay 102

Underwater concrete invert 80 Underwater plants 451 Underwater pump 80 Units, conversion 25 Units, symbols 4 University 210 ff. University clinic 303

University facilities 210

University library 263

Unpressurised drainage 531, 532, 535 Unregulated building product 521

Up-and-over door 128

Up-and-over folding door 128

UPS system 474 Upside-down roof 104 Upward-folding door 128 Urban railway 415

Urn 433

Urn grave 434 Usable area 75

Usable width 187

Use (of building) 58

Utility room 175

Utility yard 326, 327

Valve sound 489

Vapour barrier 102, 481, 482

Vapour pressure compensation layer 104, 482

Vaulted northlight roof 277 Vaulting layout 365 VdS CEA guidelines 529 Vegetation 446

Vehicle access 404

Vehicle repair workshop 289

Vehicle way 444 Vehicles 399, 400 Vent pipe 531

Ventilated pitched roof 102 Ventilation 532, 537, 538, 539 Ventilation cross-section 537

Ventilation device 540 Ventilation duct 547 Ventilation heat loss 484 Ventilation on demand 538 Ventilation shaft 546, 547, 548

Ventilation space 102

Ventilation system 532, 533, 537, 539 Verrier-palmette (plant training) 441

Vertical access 154 Vertical bars 202 Vertical joint 88

Vertical section of shaft 145

Vertical storage 249

Vertical structure (hospital) 305

Vestry 298

Vibrating harrow 457

Vine 443, 341

VIP area 331

Visitor numbers 330

Visual indicator 18

Visual protection 108

Volleyball 332, 334

Volume 23, 486

W

Wagon shed 457 Waiter passage 192 Waiter station 188 Waiting room 302 Waiting zone 269, 270 Waking-up room 314 Wall light 514 Wall lighting 515 Wall opening 126

Wall shelf 272 Wall washer 514

Wall-mounted swivel 279

Walls 439, 440, 449

Ward doctor 319

Ward entrance lobby 307

Warehousing, warehouse system 280

Warm façade 124 Warm roof 104 Washbasin 13 Washing kitchen 191 Wash room 384, 385 Waste chute 13

Waste collection room 473 Waste crusher 473

Waste disposal unit 13 Waste press 473 Wastewater 531

Wastewater drain connection 531, 533, 534

Wastewater lifting system 534, 536

Water area 377, 379 Water care 383 Water level 78 Water obstacle 335 Water plant 451, 453 Water pressure 84 Water supply 14 15 Water under pressure 83 Water vapour diffusion 481 Water without pressure 83

Water-spray extinguishing system 530

Waterball goal 378 Waterball playing area 378 Waterbound paving 444

Waterproof concrete basement 84

Waterproofing 83

Wave breaker 331 Wave pool 377, 379, 380

WCs 13, 172, 173, 187, 206, 228, 250, 282, 411

Weather protection system 426

Weekend cabin 197 Weighing table 218 Weight 23, 24

Weighted sound reduction 486

Wellness 385, 386 Wet rubbish 473 Wheelchair 33

Wheelchair parking place 33, 34, 35

Whole glass doors 120 Wide base type 304

Wide screen projection system 236

Wigwam method 442 Winding plant 441 Winding stair tread 135 Window arrangement 108 Window daylight 504, 507 Window module 252 Window size 109 Window type 111

Windows in recessed jambs 12

Windows, wrap-around frames 12

Wine cellar 176 Wire cage 462 Wire glass 117, 120 Wire mesh 442 Wisteria 443 Withers height 468 Wood chip heating 477 Wood gasification 477 Wood paving 95 Wooden bowling ball 373

Work phase 69 Working area 247 Working room 79 Workplace layout 247 Workplace Regulations 276 Workroom, clean/dirty 319 Works contract 69

Workshop building 228

Workshops 286

Х

X-ray department 303 X-ray machine 302

Υ

Yard 24 Yoke 299 Young cattle 466 Youth hostel 196

Z

Zentner 24 Zoll 24 Zoo 240

Due to an error in indexing, the page numbers on index pages 592 and 593 are incorrect.

For a corrected index please go to www.wiley.com/go/neufert/architectsdata

 $\frac{1}{a^I}$

Neufert Architects' Data

Fourth Edition

Neufert's Architects' Data is an essential reference for the initial design and planning of a building project. It provides, in one concise volume, the core information needed to form the framework for the more detailed design and planning of any building project. Organised largely by building type, it covers the full range of preliminary considerations, and with over 6200 diagrams it provides a mass of data on spatial requirements.

Most illustrations are dimensioned and each building type includes plans, sections, site layouts and design details. An extensive bibliography and a detailed set of metric/ imperial conversion tables are included. Since it was first published in Germany in 1936, Ernst Neufert's handbook has been progressively revised and updated through 39 editions and many translations. This fourth English language edition is translated from the 39th German edition, and represents a major new edition for an international, English speaking readership.

Reviews of the Previous Edition:

'Neufert's Architects' Data was the first book I bought when I started my studies in architecture. It was invaluable for me then and it is still a useful aid in my designs.'

Cesar Pelli

'With this thorough rewrite Neufert has produced yet again an invaluable reference book.'

The Architects' Journal

Cover design by Sandra Heath



ISBN 978-1-4051-9253-8