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lassen architects/

BIM7AA TYPE CODE

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INTRODUCTION

MAIN PURPOSE

What is BIM7AA Type Code?

BIM7AA Type Code is a simple encoding method for BIM components based on the consultant's design requirements, experiences, Danish way of building and best practice for all size BIM projects. The structure in BIM7AA Type Code is a modernised version of the familiar and thoroughly tested Sfb system, modified to suit today's requirements for managing a BIM project.

This method structures and generates cohesion between the BIM components, tender list, specification and quantity take-offs (QTO) here by defining the interface between the consultants professions. In doing so, a simple standardisation of the consultant's internal methods of production is obtained, making it adaptable to the specific project in terms of classifications, properties and other relevant parameters to each project.

BIM7AA Type Code is not developed with the intention of being a classification system – but its structure makes it easy to use for classification purposes.

One of the purposes of BIM7AA Type Code is to meet 80-90 percent of the needs for type coding of a given project. The remaining 10-20% is developed to be company-specific and/or project specific. BIM7AA compiles experiences from running projects to update the Type Code.

7 ADDITIONAL FACTS ABOUT THE BIM7AA TYPE CODE:

1. Complies with the Executive Order of CT Order 118 and 119 §4 on requirements for structuring digital building objects
2. Complies with the requirements for management of building models and objects cf. CF Order 118 and 119
3. Practice-oriented
4. Easy to integrate with other classification systems like DBK, CCS, IFC management - classification
5. Is a commercial viable method for building-project consultants
6. Does not require supplementary software
7. Free of charge



TYPE CODE

Building component code

The coding structure will be represented in the building objects, as well as in the software, and will follow the building object as a unique code for the specific building object through all project phases.

Properties

The Type Code determines a structure in which selected properties help to specify a group of building components. This is exemplified by "212 Exterior in situ wall".

In the project, the building component's properties will be added at type level when new building components are created. This can be within the BIM model, an outline specification, a drawing note or a building element database.

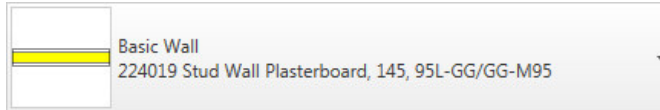
Depending on the project, object type etc. one or more types of information may need to be added additionally. This could be information such as fire rating, contract id or another classification coding in accordance with the client's facility management system. From that point on the Type Code can be used in combination or individually for annotation, filtering, browser sorting, queries etc.

The Type Code contains the following trade disciplines:

Architecture/Structure/Plumbing/HVAC/Electricity/Mechanical installation/Landscaping.



EXAMPLE OF A BUILDING COMPONENT CODE



Breakdown:

224019 Stud Wall, Plasterboard, 145, 95L-GG/GG-M95

The building component code tells us:

- That it is an **building component in Type Code 224 (Interior frame structure walls)**
- That it is a **type number 019 under the type-coding category.**
- That the **type text systematically describe the accosted building component type**

The building element consists of three constituent element:

TYPE CODE: 224

The operational grouping of the building component type – always the first three numbers.

THE TYPE NUMBER: 019

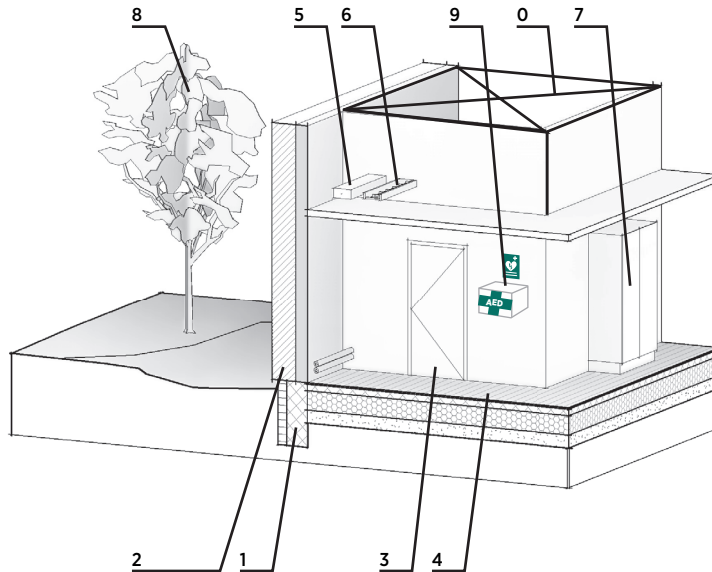
The unique building component type number under the associated building component type group – number of digits depends on the discipline.

TYPE TEXT: Stud Wall, Plasterboard, 145, 95L-GG/GG-M95

The exploratory and descriptive text addresses the unique building. Only the Type Code is defined in the BIM7AA Type Code. The type number and type text is defined in the company and / or project strategy.

Please refer to the graphic examples illustrated in this booklet and in the spreadsheet on www.BIM7AA.com

TYPE CODE MAIN CATEGORIES



- 0. Generic building components
- 1. Substructure
- 2. Primary building components
- 3. Secondary building components
- 4. Finish surfaces
- 5. Plumbing- and HVAC control systems
- 6. Electrical and mechanical systems
- 7. Furniture and equipment
- 8. Planting and external ground finishes
- 9. Project equipment



0.

Generic building
elements



GENERIC BUILDING COMPONENTS

CAT. NO. TYPE

00 Generic objects

- 001 Generic object ARCH
- 002 Generic object CON
- 003 Generic object HVAC
- 004 Generic object PLU
- 005 Generic object EL
- 006 Generic object LAND

01 Generic building components

- 011 Generic walls and foundations
- 012 Generic floors and slabs
- 013 Generic roofs
- 014 Generic openings
- 015 Generic columns and beams
- 016 Generic ceilings
- 017 Generic stairs and ramps
- 018 Generic railings and handrails
- 019 Generic curtain walls

02 Existing building components

- 021 Existing walls and foundations
- 022 Existing floors and slabs
- 023 Existing roofs
- 024 Existing openings
- 025 Existing columns and beams
- 026 Existing ceilings
- 027 Existing stairs and ramps
- 028 Existing railings and handrails
- 029 Existing curtain walls



SUBSTRUCTURE

CAT. NO. TYPE

10 Substructure, terrain

- 101 Prepared ground
- 102 Cofferdam incl. stiffening
- 103 Sheet pile walls

12 Foundations

- 121 Strip foundations
- 122 Pad foundations
- 123 Footing foundations
- 124 Block foundations
- 125 Machine foundations
- 126 Pile foundations/circular footing
- 127 Landscape foundations

13 Floor beds

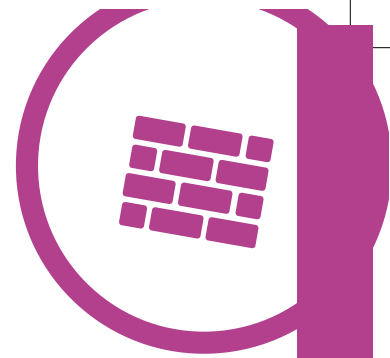
- 131 Ground floor slabs

18 Other substructure components

- 181 Ducts under the terrain
- 182 Quarries and swamps

2.

Primary building
elements



PRIMARY BUILDING COMPONENTS

CAT. NO. TYPE

20 Primary building components, terrain

- 201 Wall fences
- 202 Retaining walls
- 203 Underground service access incl. pipe bridges and tunnels.
- 204 Pedestrian bridges, viaducts etc.
- 205 Stairs and ramps in terrain

21 Exterior walls, primary building components

- 211 Exterior precast walls
- 212 Exterior in situ walls
- 213 Exterior masonry walls
- 214 Exterior frame structured walls
- 215 Exterior frame structured bulkhead walls
- 216 Exterior curtain walls
- 217 Exterior wall Insulation
- 218 Exterior light shafts

22 Interior Walls, primary building components

- 221 Interior precast walls
- 222 Interior in situ walls
- 223 Interior brick walls
- 224 Interior frame structured walls
- 225 Interior frame structured bulkhead walls
- 226 Interior curtain walls

23 Slab, primary building components

- 231 Precast slabs
- 232 In-situ slabs
- 233 Frame structured slabs
- 234 Screeds
- 239 Other slabs

CAT. NO. TYPE

24 Stairs and ramps primary building components

- 241 Precast stairs
- 242 In-situ stairs
- 243 Composite stairs
- 244 Precast ramps
- 245 In-situ ramps
- 246 Composite ramps
- 247 Fixed ladders, ladders and steps

25 Load-bearing beams and columns

- 251 Precast beams
- 252 In-situ beams
- 253 Steel beams
- 254 Other beams
- 255 Precast columns
- 256 In-situ columns
- 257 Steel columns
- 259 Other columns

26 Balconies and exterior hallways, primary building components

- 261 Precast balconies and exterior hallways
- 262 In-situ balconies and exterior hallways
- 263 Composite balconies and exterior hallways

27 Roofs, primary building components

- 271 Rafter roofs
- 272 Roof cassettes
- 273 Warm roofs
- 274 Curtain roofs
- 275 Movable roofs
- 276 Canopies and shelters
- 279 Other roof constructions

28 Other primary building components

3.

Seconddary
building elements



SECONDARY BUILDING COMPONENTS

CAT. NO. TYPE

30 Secondary components, terrain

- 301 Fences, foreclosure
- 302 Complementary stairs, ramps in terrain

31 Secondary components to external walls

- 311 Exterior doors
- 312 Exterior windows
- 313 Exterior doors, curtain wall systems
- 314 Exterior window openings, curtain wall systems
- 315 Exterior panels, spandrels and mullion profiles, curtain wall systems
- 316 Exterior ports and revolving doors
- 317 Exterior walls, screening walls
- 319 Other

32 Interior, secondary components

- 321 Interior doors
- 322 Interior windows, hatches and trapdoors
- 323 Interior doors, curtain wall systems
- 324 Interior window openings, curtain wall systems
- 325 Interior windows, spandrels and mullions, curtain wall systems
- 326 Interior doors and revolving doors
- 327 Moveable inside walls
- 328 Internal walls, screening walls
- 329 Other secondary components

33 Slab, complementary

- 331 Floor finishes raised on joists
- 332 Floating floors
- 333 Hatches, grates, mat wells, doormat frames
- 334 In-situ floors
- 335 Raised finishes
- 336 Sound absorbers
- 339 Other complementaries

CAT. NO. TYPE

34 Stairs and ramps, secondary

- 341 Railings, guardrails and handrails, exterior
- 342 Railings, guardrails and handrails, interior
- 343 Gratings, mat wells, doormat frames
- 349 Other stair complementaries

35 Ceiling, complementary

- 351 Interior suspended ceilings
- 352 Exterior suspended ceilings
- 353 Interior surface mounted ceilings
- 354 Exterior surface mounted ceilings
- 355 Interior ceiling skirts
- 356 Exterior ceiling skirts
- 337 Sound absorbers

36 Balconies, secondary

- 361 Handrails, parapets

37 Roof, secondary

- 371 Dormers
- 372 Skylights, smoke hatches and roof access hatches
- 373 Sunscreens for skylights
- 374 Mansafe systems
- 375 Fire parapet walls
- 376 Flashings
- 377 Coverings on finished roofs

38 Other secondary building components

4.

Finish surfaces



FINISH SURFACES

CAT. NO. TYPE

41 Exterior wall finishes

- 411 Painted
- 412 Coverings, cladded
- 413 Coverings, mounted

42 Interior wall finishes

- 421 Painted
- 422 Coverings, cladded
- 423 Coverings, mounted

43 Suspended floors & finishes

- 431 Painted
- 432 Coverings, cladded
- 433 Coverings, mounted

44 Stairs and ramps, finishes

- 441 Painted
- 442 Coverings, cladded
- 443 Coverings, mounted

45 Ceiling, finishes

- 451 Painted
- 452 Coverings, cladded
- 453 Coverings, mounted

46 Balconies, finishes

- 461 Painted
- 462 Coverings, cladded
- 463 Coverings, mounted

47 Roof, finishes

- 471 Painted
- 472 Coverings, cladded

48 Surface building, other

5.

Plumbing- and
HVAC control
systems



PLUMBING - AND HVAC CONTROL SYSTEMS

CAT. NO. TYPE

50 Plumbing installations, terrain

- 501 Wells
- 502 Other accessories

51 Logistics

52 Drainage and sanitation

- 521 Drainage and the like accessories
- 522 Toilet and shower
- 523 Sinks and taps
- 524 Drain connection to equipment
- 525 Other drainage and sanitation

53 Water (cold / hot water, treated water)

- 531 Mechanical equipment

54 Gases (gas, compressed air, vacuum, steam)

- 541 Mechanical equipment

55 Cooling

- 551 Mechanical equipment

56 Heating System

- 561 Heating Devices
- 562 Burner
- 563 Other mechanical equipment

CAT. NO. TYPE

57 HVAC system

- 571 Round and rectangular ducts
- 572 Other channels
- 573 Duct accessories
- 574 Installations cooling / heating coils exchanger
- 575 Fan
- 576 Luminaire
- 577 Valves
- 578 Connections to the equipment
- 579 Roof terminals / bushings

58 Sprinkler

- 581 Accessories
- 582 Mechanical equipment

59 Transverse components, plumbing

- 591 Metal pipes
- 592 Plastic pipe or similar
- 593 Other pipes
- 594 Static pipe fittings
- 595 Dynamic pipe fittings
- 596 Motordriven pipe fittings
- 597 Meters
- 598 Pipes - and pipe insulation

Subdivision of Type Codes for plumbing- and HVAC control systems page 34-37

Subdivision of Type Codes for plumbing and HVAC systems
Type Codes for plumbing and heating / HVAC systems on page 33

501 Wells

- 5011 Well*
- 5012 Drainage well*
- 5013 Rainwater gully*
- 5014 Pump well*
- 5015 Flushing well*
- 5016 Dry well*
- 5017 Grit chamber*

502 Other accessories

- 5021 Fascine*
- 5022 Højvandslukke*
- 5023 Separator (Oil, fat, gas and so on)*
- 5024 Fire hydrant*
- 5025 Tanks for oil / gas*

521 Drain and similar accessories

- 5211 Floor drain*
- 5212 Special drain*
- 5213 Drip cup*
- 5214 Vacuum valve*
- 5215 Roof drain*
- 5216 Cleaning hatch*

522 Toilet and shower

- 5221 Toilet*
- 5222 Bathtub*
- 5223 Bidet*
- 5224 Shower*
- 5225 Urinal*

523 Sinks and taps

- 5231 Basin*
- 5232 Kitchen sink*
- 5233 Cleaning wash*
- 5234 Steel sink*
- 5235 Bucket sink*
- 5236 Hose union tap*

524 Drain connection to equipment

- 5241 Drinking water cooler*
- 5242 Ice machine*
- 5243 Coffee maker*
- 5244 Cooling desk*
- 5245 Dishwasher*
- 5246 Oven*
- 5247 Washing machine*

525 Other drainage and sanitation

- 5251 Fire hose cabinet*
- 5252 Safety shower*

531 Mechanical equipment

- 5311 Water heater (power-driven)*
- 5312 Korrolyseanlæg*
- 5313 Production BBK*
- 5314 Production RO*
- 5315 Paraffin cleaner*
- 5316 Booster Sets*
- 5317 Water treatment plant*

Subdivision of Type Codes for plumbing and HVAC systems
Type Codes for plumbing and heating / HVAC systems on page 33

- 541 Mechanical equipment
 - 5411 *Special gas manifold*
 - 5412 *Pneumatic compressor*
 - 5413 *Monitoring Unit*
 - 5414 *Emergency shut-off boxes*
 - 5415 *Emergency Supply Unit*
- 551 Mechanical equipment
 - 5511 *Cooling Central*
 - 5512 *Cooling Mixing loop*
 - 5513 *Cool room*
 - 5514 *Cooling surface*
 - 5515 *Fan coil*
 - 5516 *Chilled beam*
- 561 Heating Devices
 - 5611 *Heating surface*
 - 5612 *Radiator*
 - 5613 *Floor heating*
 - 5614 *Radiant heating panel*
 - 5615 *Convactor heater*
 - 5616 *Air heating unit*
 - 5617 *Caloriefer*
 - 5618 *Hot-water tank*
- 562 Furnaces
 - 5621 *Gas furnace*
 - 5622 *Oil furnace*
- 563 Other mechanical equipment
 - 5631 *Heat exchanger*
 - 5632 *Mixing loop*
 - 5633 *Expansion tank*
- 571 Circular and rectangular ducts
 - 5711 *SR, circular duct, attachment*
 - 5712 *SR, circular duct, T-attachment*
 - 5713 *SR, circular duct, small radius*
 - 5714 *Rectangular duct, small radius, attachment*
 - 5715 *Rectangular duct, Radius curve, attachment*
 - 5716 *Rectangular duct, Small radius, T-attachment*
 - 5717 *Rectangular duct, radius curve T-attachment*
- 572 Other ducts
 - 5721 *Oval duct*
 - 5722 *Flexible duct, rectangular*
 - 5723 *Flexible duct circular*
- 573 Duct accessories
 - 5731 *Muffler*
 - 5732 *Fire louvre*
 - 5733 *Fire and smoke louvre*
 - 5734 *Pressure control louvre*
 - 5735 *Smoke louvre*
 - 5736 *Louvre on/off*
 - 5737 *Volumen flow regulator*
 - 5738 *Zone louvre/VAV-louvre*
 - 5739 *Filter*

Subdivision of Type Codes for plumbing and HVAC systems
Type Codes for plumbing and heating / HVAC systems on page 33

574 Installation, cooling/heating coil exchanger

5741 Ventilation unit

5742 Heating surface

5743 Cooling surface

5744 Liquid connected exchanger

5745 Heat recovery

5746 Heat exchanger

5747 Humidifier

5748 Dehumidifier

575 Ventilator

5751 Ventilator

5752 Axial ventilator

5753 Box ventilator

5754 Duct ventilator

5755 Process exhaust ventilator

5756 Roof ventilator

5757 Humidity controlled ventilator

576 Armatures

5761 Nozzles

5762 Displacement armature

5763 Ceiling armature

5764 Ceiling armature - visible assembled

5765 Clean-room armature

5766 Wall armatur

5767 Intake bag

5768 Ejection suction

5769 Local extraction

577 Valves

5771 Control valves

5772 Pressure release valves

578 Connections to equipment

5781 Coocker hood

579 Roof terminals / bushing

5791 Jet exhaust

5792 Exhaust cap

5793 Intake cap

5794 Exhaust chimney

5795 Intake chimney

5796 Roof bushing

5797 Membrane bushing

581 Accessories

5811 Alarm valves

5812 Sprinkler nozzels

5813 Flow switch

582 Mekanical equipment

5821 Sprinkler installation

5822 Water purification installation

5823 Pressure tanks

5824 Pressure tank pumpes

591 Metal pipe

5911 Galvanized pipes

5912 Pre-insulated steel pipes

5913 Stainless steel pipes

5914 Black steel pipes

5915 Electrolytic galvanized steel pipes

5916 Cobber pipes, soft

5917 Cobber pipes, hard

5918 Alupex

Subdivision of Type Codes for plumbing and HVAC systems
Type Codes for plumbing and heating / HVAC systems on page 33

592 Plastic pipes and similar

- 5921 Pe pressure pipes*
- 5922 PEL pipes*
- 5923 PEM pipes*
- 5924 PEX pipes*
- 5925 PP waste pipes*
- 5926 PP x-stream rainwater pipes*
- 5927 PVC pressure pipes*
- 5928 Red PP smooth pipes*
- 5929 Red PP rib pipes*

593 Other pipes

- 5931 Concrete pipes*
- 5932 Super flex pipes*

594 Static valves

- 5941 Insolation valve*
- 5942 String regulating valve*
- 5943 Magnet valve*
- 5944 Safety valve*
- 5945 Air bleed cock*
- 5946 Drain valve*
- 5947 Cylinder gas regulator*
- 5948 NIST coupling*

595 Dynamic valves

- 5951 Circulation valve*
- 5952 String regulering valve*
- 5953 Pressure differential regulator*

596 Motorized pips accessories

- 5961 Motorized valve*
- 5962 Motorized pressure differential regulator*

597 Gauges, filteres and others

- 5971 Filter*
- 5972 Flow gauge*
- 5973 Distribution pipe*
- 5974 Thermometer*
- 5975 Manometer*
- 5976 Compensator*

598 Duct and pipe insulation

- 5981 Insulation, Fire*
- 5982 Insulation, Heat*
- 5983 Insulation, Condensation*
- 5984 Insulation, Noise*

6.

Electrical and
mechanical
systems

ELECTRICAL AND MECHANICAL SYSTEMS

CAT. NO. TYPE

60 Terrain

- 601 Wires
- 602 Lighting
- 603 Installation for underground facilities
- 604 Installation for ground level facilities
- 605 Traffic management

61 Routing

- 611 Routing
- 612 Gaps and recesses
- 613 Fire and audio sealings

62 High voltage

- 621 Supply
- 622 Distribution
- 623 Installations for appliances and machines
- 624 Secondary high voltage

63 Low voltage

- 631 Supply - external
- 632 Distribution
- 633 Installations for appliances and machines
- 634 Thermal facilities
- 635 Installations for lighting
- 636 Lighting fixtures
- 637 Power installations
- 638 Renewable energy - Internal distribution

CAT. NO. TYPE

64 Communication and information

- 641 Communication
- 642 Information
- 643 Audio, video and antenna
- 644 IT infrastructure

65 Security

- 651 Access security
- 652 Security systems
- 653 Individual safeguarding systems

66 Building automation

- 661 Building Management Systems
- 662 Central Status Control
- 663 Distributed Status Control

67 Protection

- 671 Overvoltage protection
- 672 Equalizer connections
- 673 Cathodic Protection
- 674 EMI (Electrical Magnetical Interference)

68 Passenger and material transportation

- 681 Passenger transportation
- 682 Cargo and material transportation

Subdivision of Type Codes for Electrial and mechanical systems page 42-45

Subdivision of Type Codes for Electrical and mechanical systems
Type Codes for Electrical and mechanical systems on page 41

601 Wires	611 Routing
6011 <i>Air-wiring of high-voltage facilities</i>	6111 <i>Embeddings</i>
6012 <i>Gound-wiring of high-voltage facilities</i>	6112 <i>Trunking</i>
6013 <i>Air-wiring of low-voltage facilities</i>	6113 <i>Cable trays</i>
6014 <i>Ground-wiring of low-voltage facilities</i>	6114 <i>Cable ladders</i>
6015 <i>Wiring for electronics and weak current installations</i>	6115 <i>Conducts</i>
	6116 <i>Boxes</i>
602 Lighting	612 Gaps and recesses
6021 <i>Street lighting</i>	6121 <i>Gaps and recesses</i>
6022 <i>Area lighting</i>	
6023 <i>Park and garden lighting</i>	613 Fire and audio sealings
6024 <i>Special lighting</i>	6131 <i>Fire and audio sealings</i>
603 Installation for underground facilities	621 Supply
6031 <i>Facility for earth electrodes</i>	6211 <i>Service wires</i>
6032 <i>Oil separator facility</i>	6212 <i>Transformers</i>
6033 <i>Pump systems in wells</i>	6213 <i>Emergency and reserve supply facilities</i>
6034 <i>Registering facility for grease separator</i>	6214 <i>AC and DC inverter facilities</i>
6035 <i>Heat wire facility</i>	6215 <i>Phase compensation facilities</i>
6036 <i>Leak detection facility</i>	6216 <i>Frequency inverter facilities</i>
6037 <i>Cooling detection facility</i>	
604 Installation for ground level facilities	622 Distribution
6041 <i>Facilities for secondary buildings</i>	6221 <i>Main cables</i>
6042 <i>Tank facilities</i>	6222 <i>Switchgear</i>
6043 <i>Charging dock for electric cars</i>	
605 Traffic management	623 Installations for appliances and machines
6051 <i>Traffic signal facilities</i>	6231 <i>Production machines</i>
6052 <i>Fixed signs</i>	6232 <i>Pump facilities</i>
6053 <i>Dynamic signs</i>	6233 <i>Motors</i>
6054 <i>Traffic detection</i>	624 Secondary high voltage
6055 <i>Barrier facilities</i>	6241 <i>Lighting fixtures</i>
	6242 <i>Test stands</i>

Subdivision of Type Codes for Electrical and mechanical systems
Type Codes for Electrical and mechanical systems on page 41

- 631 Supply - external
 - 6311 *Service wires / Bus bar*
 - 6312 *Transformer facilities*
 - 6313 *Switchboards*
 - 6314 *Emergency and reserve supply facilities / UPS*
 - 6315 *DC thyristor facilities*
 - 6316 *AC and DC inverter facilities*
 - 6317 *Phase compensation facilities*
 - 6318 *Frequency inverter facilities*
- 632 Distribution
 - 6321 *Main cables*
 - 6322 *Main distribution boards*
 - 6323 *Group distribution boards*
 - 6329 *Other boards*
- 633 Installations for appliances and machines
 - 6331 *Boiler facilities*
 - 6332 *Cooling facilities*
 - 6333 *Production machines*
 - 6334 *Pump facilities*
 - 6335 *Production kitchen machine facilities*
 - 6336 *Grand / shared laundry facilities*
 - 6337 *Transportation facilities*
 - 6338 *Ventilation facilities*
 - 6339 *Installations for other mechanical facilities*
- 634 Thermal facilities
 - 6341 *Electrical radiator*
 - 6342 *Electrical heating surface*
 - 6343 *Hand dryer, heated towel rail*
 - 6344 *Oven facilities*
 - 6345 *Heat radiant facilities*
 - 6346 *Heat cable facilities*
- 635 Installations for lighting
 - 6351 *Facilities for general lighting*
 - 6352 *Facilities for low voltage lighting*
 - 6353 *Facilities for safety lighting*
 - 6354 *Facilities for special lighting*
 - 6355 *Facilities for lighting control*
- 636 Lighting fixtures
 - 6361 *Fixtures - general lighting*
 - 6362 *Fixtures - safety lighting*
 - 6363 *Fixtures - special lighting*
- 637 Power installations
 - 6371 *Sockets*
 - 6372 *Work stations*
 - 6373 *Outlets*
 - 6374 *Distribution for appliances*
- 638 Renewable energy - Internal distribution
 - 6381 *Solar panels*
 - 6382 *Windmills*
 - 6383 *Heat pumps*
- 641 Communication
 - 6411 *Telephone, landline*
 - 6412 *Telephone, wireless*
 - 6413 *Radio facilities*
 - 6414 *Pager facilities*
 - 6415 *Door and entry phone*
 - 6416 *Nurse call system*
- 642 Information
 - 6421 *Occupied facility*
 - 6422 *Calling facilities*
 - 6423 *Scoreboard facilities*
 - 6424 *Clock facilities*

Subdivision of Type Codes for Electrical and mechanical systems
Type Codes for Electrical and mechanical systems on page 41

- | | |
|---|---|
| 643 Audio, video and antenna <ul style="list-style-type: none">6431 <i>Speaker facilities</i>6432 <i>Microphone facilities</i>6433 <i>Teleloop facilities</i>6434 <i>Video facilities</i>6435 <i>Antenna facilities</i>6436 <i>AV facilities</i> | 661 Building Management Systems <ul style="list-style-type: none">6611 <i>BMS facilities</i> |
| 644 IT infrastructure <ul style="list-style-type: none">6441 <i>Cable and patch panels</i>6442 <i>DAS - antenna facilities</i>6443 <i>Positioning systems</i> | 662 Central Status Control <ul style="list-style-type: none">6621 <i>CSC facilities</i>6622 <i>KNX IBI facilities with central control</i> |
| 651 Access security <ul style="list-style-type: none">6511 <i>Automatic Intrusion Alarm systems</i>6512 <i>Automatic Door Control systems</i>6513 <i>Internal video surveillance systems</i> | 663 Distributed Status Control <ul style="list-style-type: none">6631 <i>IBI facilities with distributed control</i> |
| 652 Security systems <ul style="list-style-type: none">6521 <i>Automatic Fire Alarm systems</i>6522 <i>Automatic Fire Door Closing systems</i>6523 <i>Automatic Gas Alarm systems</i>6524 <i>Automatic Room Extinguishing systems</i>6525 <i>Automatic Water Extinguishing systems</i>6526 <i>Automatic Fire Ventilation systems</i> | 671 Overvoltage protection <ul style="list-style-type: none">6711 <i>Lightning protection</i> |
| 653 Individual safeguarding systems <ul style="list-style-type: none">6531 <i>Warning systems</i>6532 <i>Emergency Call systems</i>6533 <i>Alarm systems for cooling rooms</i>6534 <i>Detection systems for individual safeguarding</i>6535 <i>Panic alarm</i> | 672 Equalizer connections <ul style="list-style-type: none">6721 <i>Main equalizer connection</i>6722 <i>Local equalizer connection without ground connection</i>6723 <i>Additional equalizer connection</i>6724 <i>Medicotechnical equalizer connection</i> |
| | 673 Cathodic Protection <ul style="list-style-type: none">6731 <i>Cathodic protection of pipes and tank facilities</i>6732 <i>Cathodic protection of reinforcement</i> |
| | 674 EMI (Electrical Magnetical Interference) <ul style="list-style-type: none">6741 <i>Special precautions against electromagnetic interference</i>6742 <i>Shielding scanner room</i> |

Subdivision of Type Codes for Electrical and mechanical systems
Type Codes for Electrical and mechanical systems on page 41

681 Passenger transportation

6811 Elevators

6812 Lifts

6813 Escalators

6814 Moving walkways

682 Cargo and material transportation

6821 Elevators

6822 Lifts and scissors lifts

6823 Conveyor belt

6824 Cranes and hoists

6825 AGV systems

6826 Pneumatic tube system

7.

Furniture and
equipment



FURNITURE AND EQUIPMENT

CAT. NO. TYPE

70 Furniture, terrain

- 701 Technical equipment
- 702 Boards, signs and screens
- 703 Storage, trash racks, bike racks, mailboxes
- 704 Table furniture
- 705 Seating furniture
- 706 Handrails and parapets
- 709 Other fixtures in the terrain

71 Furniture, built-in

- 711 Cabinets, drawers
- 712 Bookcases, shelves
- 713 Seating furniture, lawn furniture
- 714 Curtains, blinds, screens, curtains
- 715 Tables, Countertops
- 716 Signs, boards
- 717 Garnish
- 719 Other fixed furniture

72 Furniture, movable

- 721 Cabinets, drawers
- 722 Bookcases
- 723 Seating furniture, lawn furniture
- 724 Screens, curtains
- 725 Tables
- 726 Stands, shelves
- 727 Mats, rugs, runners
- 729 Other removable fixtures

73 Fixtures, technical, IT and audio-visual equipment

- 731 AV equipment
- 732 IT equipment
- 733 Lighting
- 734 Vending Machines
- 735 Firefighting equipment
- 736 Appliances

8.

Planting and
external ground
finishes



PLANTING AND EXTERNAL GROUND FINISHES

CAT. NO. TYPE

80 Coatings and fixings

- 801 Asphalt coatings
- 802 Concrete coatings
- 803 Rubber coatings
- 804 Tiling and paving
- 805 Crushed stone and gravel
- 806 Edge elements
- 807 Striping
- 809 Other coatings and fixings

81 Planting

- 811 Trees
- 812 Hedges
- 813 Shrubs
- 814 Ground cover plants
- 815 Climbers
- 816 Lawns
- 819 Other planting

9.

Project
equipment



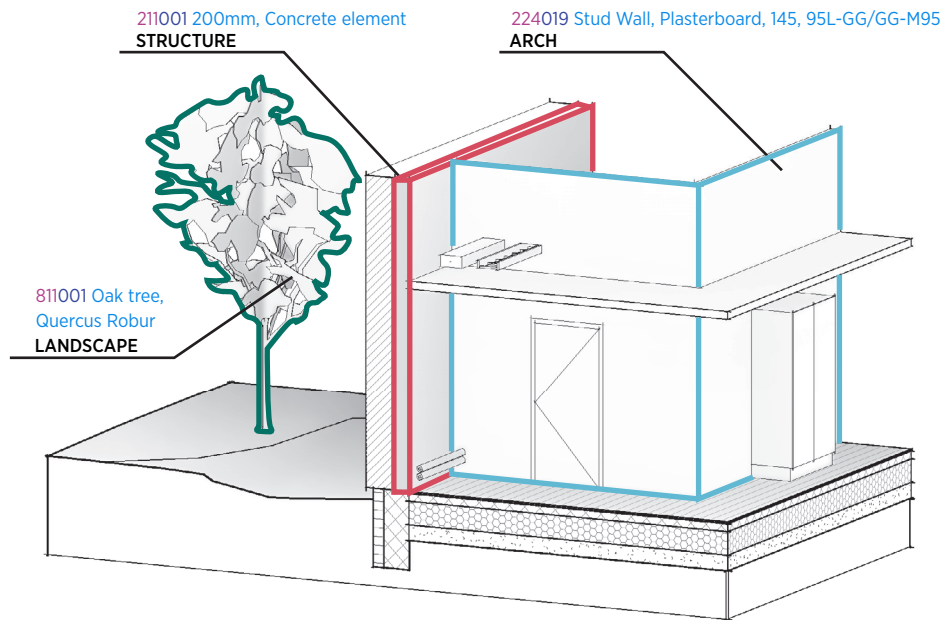
PROJECT EQUIPMENT

CAT. NO. TYPE

- 91 Project equipment ARCH
- 92 Project equipment CON
- 93 Project equipment HVAC
- 94 Project equipment PLU
- 95 Project equipment EL
- 96 Project equipment LAND

BIM7AA TYPE CODE LIST

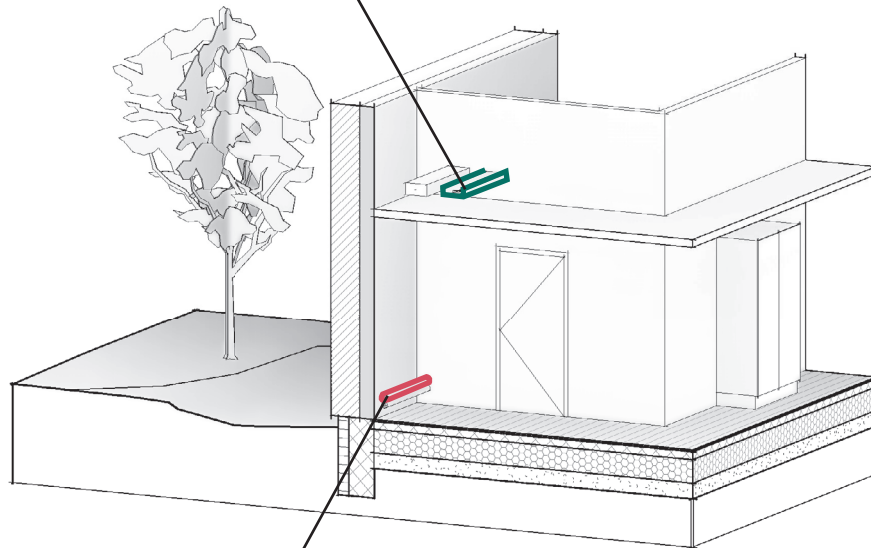
Example 1: ARCH, STRUCTURE, LANDSCAPE



BIM7AA TYPE CODE LIST

Example 2: ELECTRICAL AND MECHANICAL SYSTEMS
PLUMBING - AND HVAC CONTROL SYSTEMS

6113001 Galvanized cable tray
Electrical and mechanical systems



5914001 Black steel pipes
Plumbing- and HVAC control systems

INFORMATION

Collaboration group

BIM7AA

The purpose of setting up a collaboration involving seven architectural firms is to develop and continuously optimise commonly developed trade-oriented, trade-supporting and interdisciplinary BIM tools, as well as methods and processes.

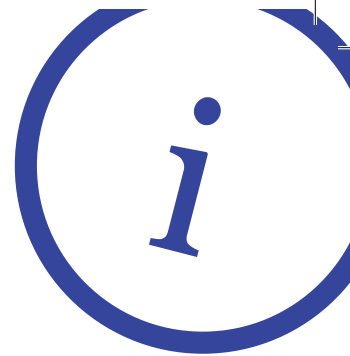
The primary focus is on the trade-oriented aspect which is founded on the vast ICT and project experiences jointly possessed by BIM7AA and the other participating companies.

Collaboration group

BIM7AA Type Code is the result of voluntary collaboration involving the seven architectural firms in Aarhus, all of which are working on “super hospitals projects” currently under construction. These projects are characterised by great complexity and comprehensive ICT requirements.

Throughout 2013 to 2015, ICT and BIM experts from the respective architectural firms – together with the Aarhus School of Architecture – have formed a task force which, through many workshops, has discussed and evaluated the possibilities of value-added productivity and optimisation of BIM processes, based on the lessons learned from project design and planning, in accordance with the Executive Orders on ICT.

BIM7AA wants to share the results of this collaboration and has therefore chosen to make the BIM7AA Type Code available for everyone. The Type Code is already being used in ongoing projects by the companies participating in the BIM7AA task force, who are at the same time compiling the lessons learnt from this to make ongoing updates of the Type Code.



The BIM7AA task force is established by:

aarhus arkitekterne
AART architects
Aarhus School of Architecture
Arkitema Architects
C.F. Møller
CUBO Arkitekter A/S
Friis & Moltke A/S
schmidt hammer lassen architects

Interdisciplinary collaboration

To ensure integrated Type Code involving and representing all building trade disciplines, highly qualified ICT and BIM experts representing four recognised consulting engineering firms and two landscapearchitecture firms have participated in the development work for:

Structure, plumbing- and HVAC control systems as well as electrical and mechanical systems and land-scaping respectively.

The interdisciplinary collaboration will remain in focus for BIM7AA going forward.

The Type Code is an open-source document which is made available free of charge. BIM7AA cannot be held liable for how the user of the Type Code chooses to use it.

Link/Web

www.BIM7AA.com

