



INNOVATIVE EDUCATIONAL INTEGRATION OF URBAN
PLANNING BASED ON BIM-GIS TECHNOLOGIES AND
FOCUSED ON CIRCULAR ECONOMY CHALLENGES

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TRANSLATIONS OF THE BIM ELEMENTS REPRESENTED



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ROMANIA
GREEN
BUILDING
COUNCIL



Centro Tecnológico
del mármol, piedra y materiales



Warsaw University
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BIM classification		Code		Unit of ref.	Element definition Description
Element IFC	Class UrbanBIM	Clasificación BCCA (Spanish)	Uniclass code		
IfcSlab	Pavement	15PPP50120	EF_30_60	m2	Pavement in parking area with paving blocks
	Pavement	15PPP50250	EF_30_60	m2	Pavement in children's play area with artificial grass and absorbent base
	Sidewalk	15PPP50110	EF_30_60	m2	Sidewalk with concrete paving blocks
	Cycle paths	15PPP50180	EF_30_60	m2	Cycle paths
	Driveway	15PPP50110	EF_30_60	m2	Bituminous Concrete Driveway
IfcTank	Tanks	15ADD50005	Pr_60_50_96_15	m3	Rainwater tank
	Container	15UR50050	Pr_40_50_07_22	u	Underground container 4000 L.
IfcUrbanFurniture	Streetlight	15EPP00105	Pr_70_70_48_73	u	Galvanized steel streetlight 6m LEDS light
	Bench	15UPA0010	Pr_40_30_29	u	Bench, METALLIC SUPPORT and nordic pine seat
	Bin	15URP00010	Pr_40_50_07_96	u	Metallic public bin
	Bench	15UPA0005	Pr_40_30_29	u	White concrete bench
	Fountain	15UFF50010	Pr_40_20_87_24	u	Drinking fountain
	Fountain	15UFF50011	Pr_70_55_98_30	u	Street fountain
	Rocker	15UPB00100	Pr_40_30_61_88	u	Children's rocker
	Traffic light	15CSS50120	Pr_70_75_70_14	u	Transfer traffic light 6m height
	Sign	15CRR10102	Pr_70_75_72_30	u	Vertical traffic sign
IfcPipeSegment	Pipe	15ACW50110	Pr_65_52	m	Stoneware pipe DN 600
IfcFooting	Trenches	15ACV50140	Pr_65_52_07_89	m	Trench to draining pipe DN 200 up to 3m deep
	Wells	15APP50145	Pr_65_52	u	Concrete well for DN 600

BIM classification		Code		Unit of ref.	Element definition Descripción (Spanish)
Element IFC	Class UrbanBIM	Clasificación BCCA (Spanish)	Uniclass code		
IfcSlab	Pavement	15PPP50120	EF_30_60	m2	PAVIMENTO ZONA APARCAMIENTO CON ADOQUÍN HORMIGÓN
	Pavement	15PPP50250	EF_30_60	m2	PAVIMENTO ZONA JUEGO INFANTIL CESPED ARTIFICIAL Y BASE AMORTIGUANTE
	Sidewalk	15PPP50110	EF_30_60	m2	ACERADO CON ADOQUÍN HORMIGÓN 40X20X6 cm
	Cycle paths	15PPP50180	EF_30_60	m2	CARRIL BICI
	Driveway	15PPP50110	EF_30_60	m2	Calzada hormigón bituminoso
IfcTank	Tanks	15ADD50005	Pr_60_50_96_15	m3	Depósito agua de lluvia instalado
	Container	15UR50050	Pr_40_50_07_22	u	Contenedor soterrado 4000 L.
IfcUrbanFurniture	Streetlight	15EPP00105	Pr_70_70_48_73	u	FAROLA COLUMNA ACERO GALV. 6 m LUMINARIA LEDS 44W
	Bench	15UPA0010	Pr_40_30_29	u	BANCO INTEMPERIE, SOPORTE METÁLICO Y ASIENTO PINO FLANDES
	Bin	15URP00010	Pr_40_50_07_96	u	PAPELERA PÚBLICA METÁLICA Y ZÓCALO DE HORMIGÓN
	Bench	15UPA0005	Pr_40_30_29	u	BANCO HORMIGÓN BLANCO
	Fountain	15UFF50010	Pr_40_20_87_24	u	Fuente bebedero
	Fountain	15UFF50011	Pr_70_55_98_30	u	Fuente ornamental
	Rocker	15UPB00100	Pr_40_30_61_88	u	ELEMENTO BALANCÍN MUELLE SIMPLE
	Traffic light	15CSS50120	Pr_70_75_70_14	u	Desplazamiento semáforo 6m altura
	Sign	15CRR10102	Pr_70_75_72_30	u	SEÑAL VERTICAL DE PROHIBICIÓN
IfcPipeSegment	Pipe	15ACW50110	Pr_65_52	m	Conducción de gres DN 600 instalada
IfcFooting	Trenches	15ACV50140	Pr_65_52_07_89	m	Zanja para tubería drenante DIAM 200 hasta 3m de profundidad
	Wells	15APP50145	Pr_65_52	u	Pozo para DN 600

BIM classification		Code		Unit of ref.	Element definition Descripción (Romanian)
Element IFC	Class UrbanBIM	Clasificación BCCA (Spanish)	Uniclass code		
IfcSlab	Pavement	15PPP50120	EF_30_60	m2	Pavaj în zona de parcare cu pavele din beton
	Pavement	15PPP50250	EF_30_60	m2	Pavaj în zona de joacă pentru copii cu iarbă artificială și suprafață absorbantă
	Sidewalk	15PPP50110	EF_30_60	m2	Trotuar cu blocuri de pavaj din beton
	Cycle paths	15PPP50180	EF_30_60	m2	Piste pentru biciclete
	Driveway	15PPP50110	EF_30_60	m2	Cale de rulare din beton asfaltic
IfcTank	Tanks	15ADD50005	Pr_60_50_96_15	m3	Rezervor de apă pluvială
	Container	15UR50050	Pr_40_50_07_22	u	Container subteran 4000 l.
IfcUrbanFurniture	Streetlight	15EPP00105	Pr_70_70_48_73	u	Lampă stradală din oțel zincat 6m cu LED-uri
	Bench	15UPA0010	Pr_40_30_29	u	Bancă, structură metalică și rigle din lemn de pin nordic
	Bin	15URP00010	Pr_40_50_07_96	u	Coș stradal de gunoi din metal
	Bench	15UPA0005	Pr_40_30_29	u	Bancă din beton
	Fountain	15UFF50010	Pr_40_20_87_24	u	Çișmea/fântână de băut apă
	Fountain	15UFF50011	Pr_70_55_98_30	u	Fântâna arteziană stradală
	Rocker	15UPB00100	Pr_40_30_61_88	u	Balasoar pentru copii
	Traffic light	15CSS50120	Pr_70_75_70_14	u	Semafor cu înălțimea de 6m
Sign	15CRR10102	Pr_70_75_72_30	u	Panou semnalizare stradală	
IfcPipeSegment	Pipe	15ACW50110	Pr_65_52	m	Rigolă stradală DN 600
IfcFooting	Trenches	15ACV50140	Pr_65_52_07_89	m	Dren DN 200 până la 3m adâncime
	Wells	15APP50145	Pr_65_52	u	Cămin canalizare din beton DN 600

BIM classification		Code		Unit of ref.	Element definition Descripción (Polish)
Element IFC	Class UrbanBIM	Clasificación BCCA (Spanish)	Uniclass code		
IfcSlab	Pavement	15PPP50120	EF_30_60	m2	Chodnik na parkingu z kostki brukowej
	Pavement	15PPP50250	EF_30_60	m2	Chodnik na placu zabaw dla dzieci ze sztucznej trawą i chłonnym podłożem
	Sidewalk	15PPP50110	EF_30_60	m2	Chodnik z betonowej kostki brukowej
	Cycle paths	15PPP50180	EF_30_60	m2	Ścieżki rowerowe
	Driveway	15PPP50110	EF_30_60	m2	Podjazd z betonu bitumicznego
IfcTank	Tanks	15ADD50005	Pr_60_50_96_15	m3	Zbiornik na deszczówkę
	Container	15UR50050	Pr_40_50_07_22	u	Pojemnik podziemny 4000 L.
IfcUrbanFurniture	Streetlight	15EPP00105	Pr_70_70_48_73	u	Oprawa uliczna ze stali ocynkowanej 6m światło LEDS
	Bench	15UPA0010	Pr_40_30_29	u	ławka, WSPORNIK METALOWY i siedzisko z sosny nordyckiej
	Bin	15URP00010	Pr_40_50_07_96	u	Publiczny, metalowy kosz na śmieci
	Bench	15UPA0005	Pr_40_30_29	u	ławka z białego betonu
	Fountain	15UFF50010	Pr_40_20_87_24	u	Fontanna z wodą do picia
	Fountain	15UFF50011	Pr_70_55_98_30	u	Fontanna uliczna
	Rocker	15UPB00100	Pr_40_30_61_88	u	Bujak dla dzieci
	Traffic light	15CSS50120	Pr_70_75_70_14	u	Przenoszenie sygnalizacji świetlnej o wysokości 6m
Sign	15CRR10102	Pr_70_75_72_30	u	Znak drogowy pionowy	
IfcPipeSegment	Pipe	15ACW50110	Pr_65_52	m	Rura kamionkowa DN 600
IfcFooting	Trenches	15ACV50140	Pr_65_52_07_89	m	Wykop do rury drenarskiej DN 200 o głębokości do 3m
	Wells	15APP50145	Pr_65_52	u	Studnia betonowa dla DN 600