



BIM clay

OBJECTIVES AND RESULTS

SHORT DESCRIPTION OF TASKS AND EXPECTED RESULTS

- O1. ESTABLISHMENT OF COMMON LEARNING OUTCOMES ON CLAY PLACING METHODS, LIFE CYCLE ANALYSIS (LCA) AND RELATIVE REGULATIONS.
- O2. BIMclay MULTIMEDIA MATERIALS. NEW INTERACTIVE BIM-LEARNING METHODS
- O3. ONLINE RESOURCE CENTRE.

SPANISH REGULATION REGARDING CLAY PLACING

METHODS

O1. ESTABLISHMENT OF COMMON LEARNING OUTCOMES ON CLAY PLACING METHODS, LIFE CYCLE ANALYSIS (LCA) AND RELATIVE REGULATIONS.



O1/A1. Comparative study on the normative for placing the clay products.

O1/A2. Methods and procedures used for placing clay products.

O1/A3. Comparative study on Life Cycle Analysis (LCA) of clay products in the participant countries.

O1/A4. Report on the results of workshop in (Coimbra, Portugal).

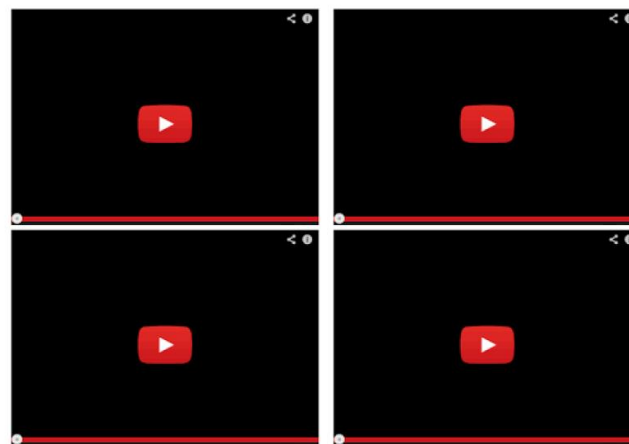
O1/A5. Clay Placing Course Curriculum based on ecological challenges and BIM technologies.

	
<u>REAL DECRETO 314/2006, de 17 de marzo, por el que se aprueba el Código Técnico de la Edificación.</u>	ROYAL DECREE 314/2006, of March 17, which approves the Technical Building Code
<u>UNE-EN 15037-3:2010+A1:2011. Productos prefabricados de hormigón. Sistemas de forjado de vigueta y bovedilla. Parte 3: Bovedillas de arcilla cocida.</u>	UNE-EN 15037-3:2010+A1:2011. Precast concrete products - Beam-and-block floor systems - Part 3: Clay blocks
<u>UNE 67041:1988. Tableros cerámicos de arcilla cocida para cubiertas. Designación y especificaciones.</u>	UNE 67041:1988. Ceramic slabs of burned clay for covering. Designation and technical characteristics.
<u>UNE-EN 1304:2014. Tejas y piezas auxiliares de arcilla cocida. Definiciones y especificaciones de producto.</u>	UNE-EN 1304:2014. Clay roofing tiles and fittings - Product definitions and specifications.
<u>UNE-EN 771-1:2011+A1:2016. Especificaciones de piezas para fábrica de albañilería. Parte 1: Piezas de arcilla cocida.</u>	UNE-EN 771-1:2011+A1:2016. Specification for masonry units - Part 1: Clay masonry units.
<u>UNE-EN 845-1:2014. Especificación de componentes auxiliares para fábricas de albañilería. Parte 1: Llaves, amarres, estribos y ménsulas.</u>	UNE-EN 845-1:2014. Specification for ancillary components for masonry - Part 1: Wall ties, tension straps, hangers and brackets
<u>UNE-EN 1344:2015. Adoquines de arcilla cocida. Especificaciones y métodos de ensayo.</u>	UNE-EN 1344:2015. Clay pavers - Requirements and test methods.
<u>UNE-EN 14411:2013. Baldosas cerámicas. Definiciones, clasificación, características, evaluación de la conformidad y marcado.</u>	UNE-EN 14411:2013. Ceramic tiles - Definitions, classification, characteristics, evaluation of conformity and marking.
<u>UNE-EN 14411:2016. Baldosas cerámicas. Definiciones, clasificación, características, evaluación y verificación de la constancia de las prestaciones, y marcado.</u>	UNE-EN 14411:2016. Ceramic tiles - Definition, classification, characteristics, assessment and verification of constancy of performance and marking.

O2. BIMclay MULTIMEDIA MATERIALS. NEW INTERACTIVE BIM-LEARNING METHODS



Graphic multimedia material on how to place the most common clay products in an ecological way.



O2/A1. IT production of BIMclay Multimedia Cards.

O2/A2. Pedagogical and implementation of IT improvements of BIMclay Multimedia Cards.

O2/A3. Technical test and implementation of IT improvements of BIMclay Multimedia Cards.

O2/A4. Report on the results International Seminar in Madrid (Spain) on new interactive methods BIM-learning applied to sector of clay products.

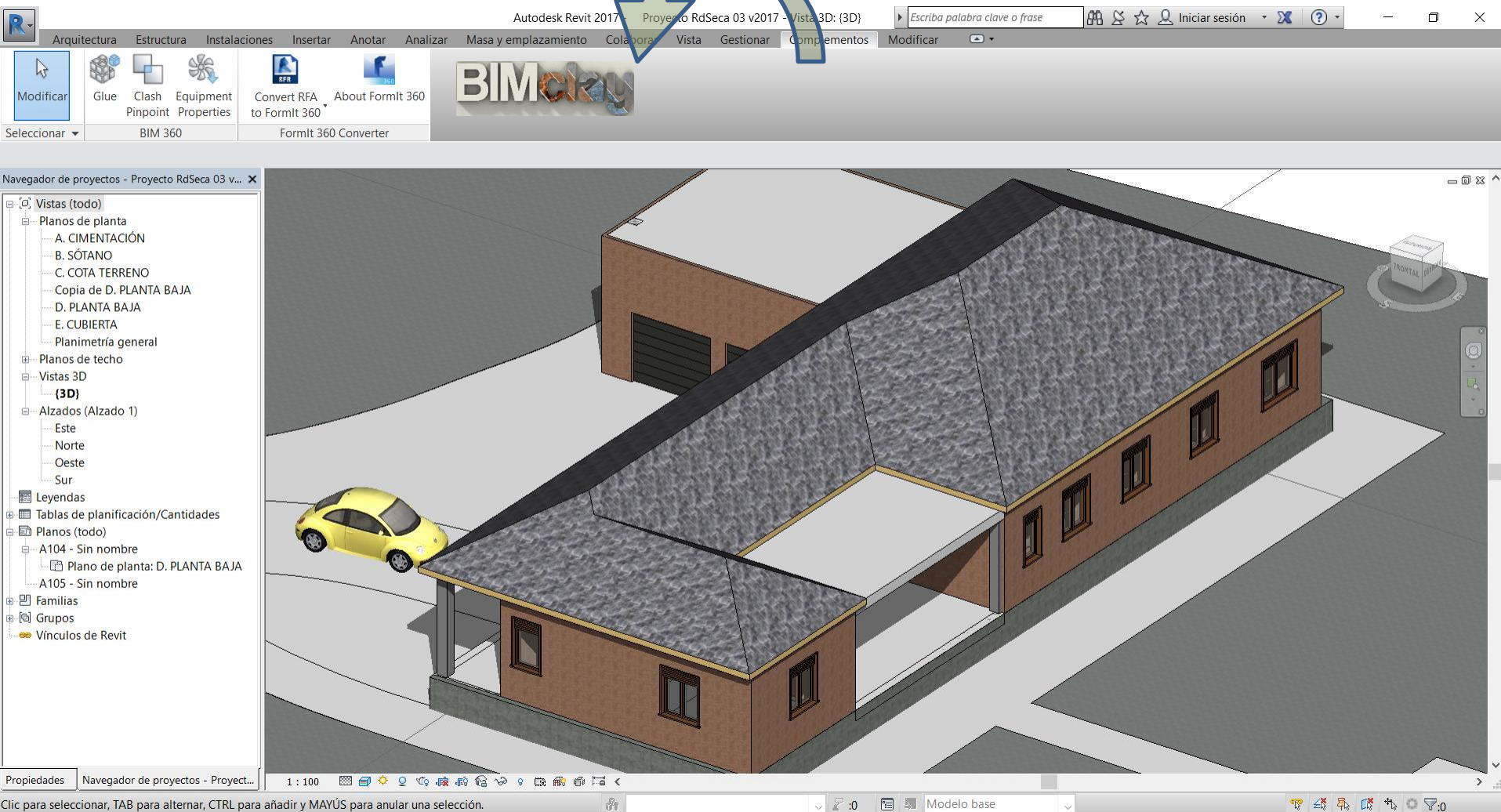


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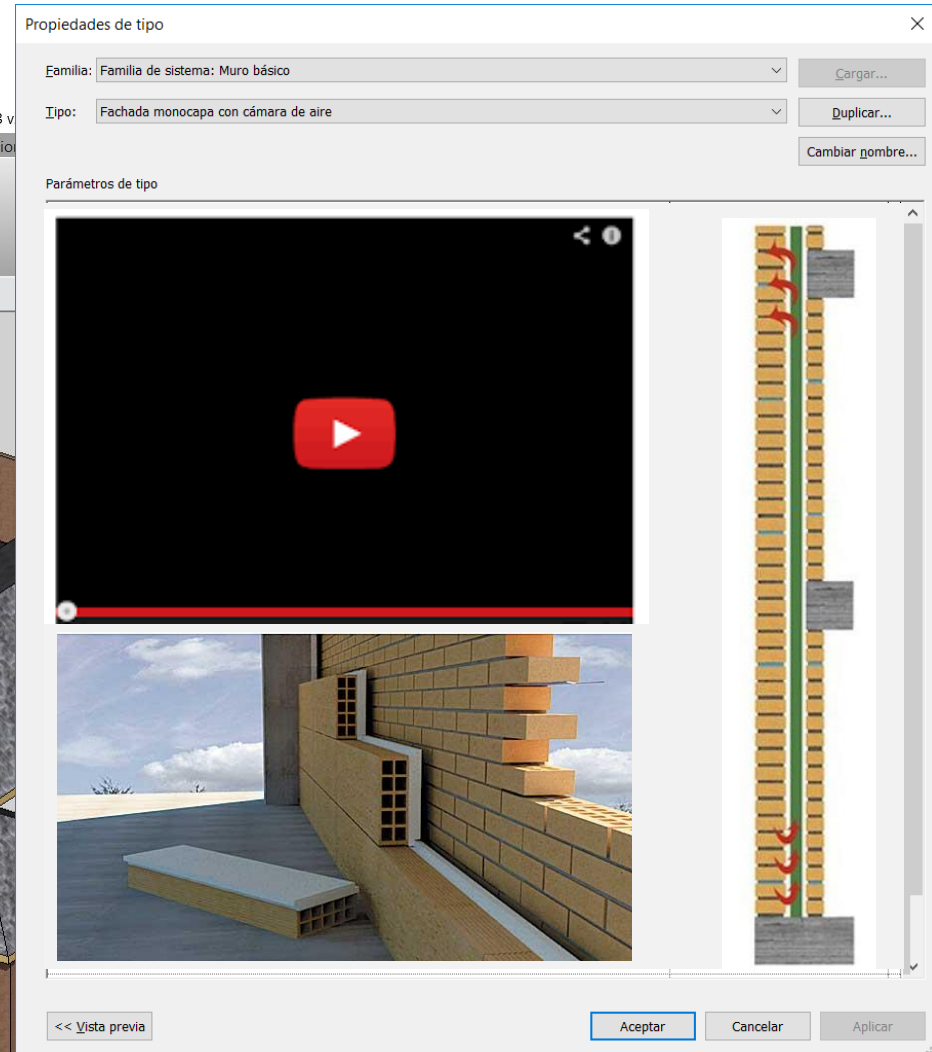
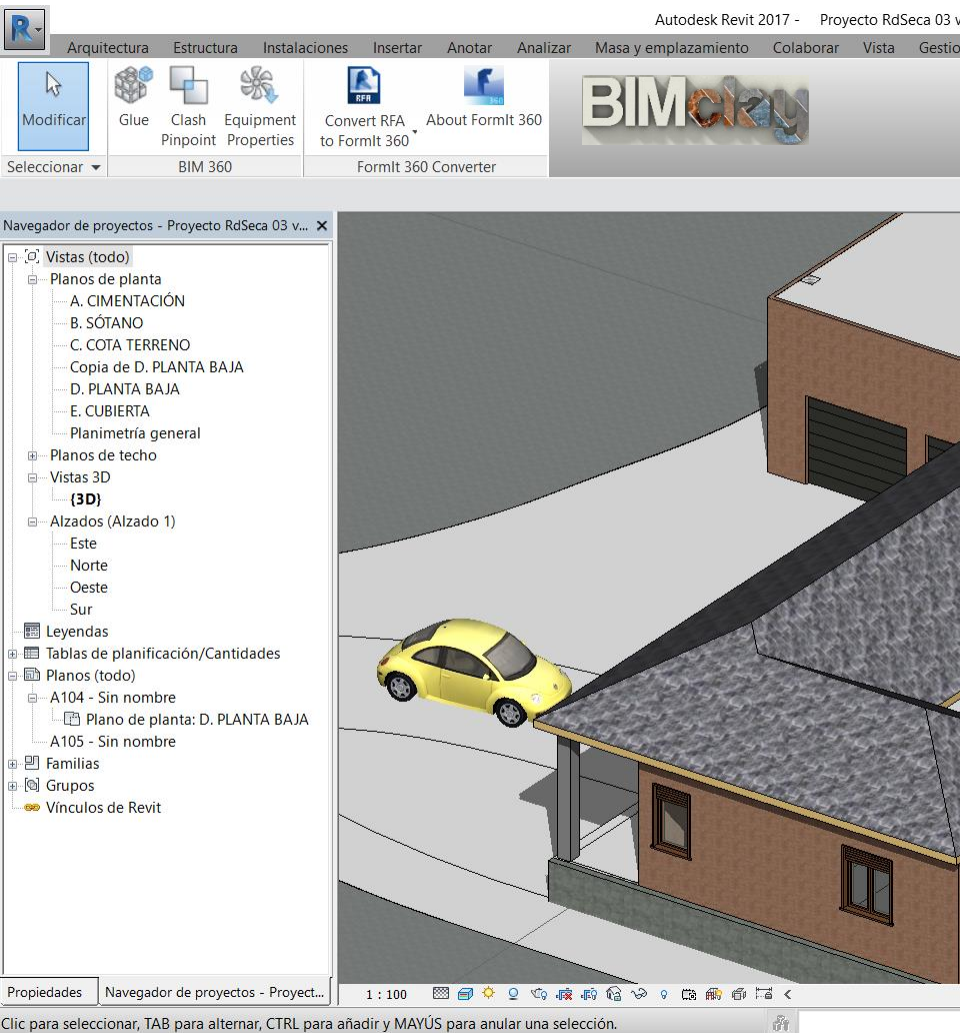


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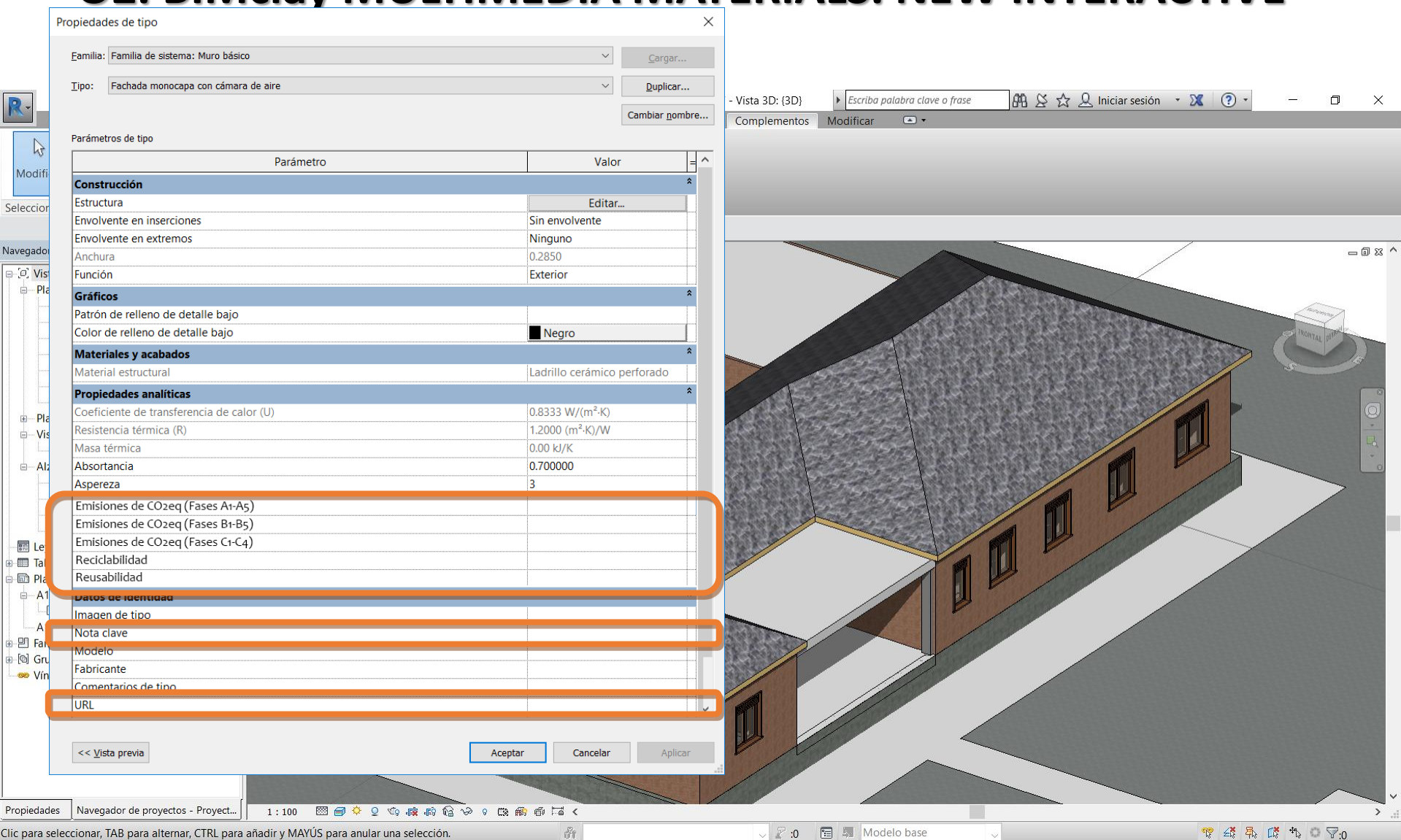
O2. BIMclay MULTIMEDIA MATERIALS. NEW INTERACTIVE BIM-LEARNING METHODS



O2. BIMclay MULTIMEDIA MATERIALS. NEW INTERACTIVE BIM-LEARNING METHODS



O2. BIMclay MULTIMEDIA MATERIALS. NEW INTERACTIVE



The screenshot displays the BIMclay software interface. On the left, a vertical sidebar contains navigation icons for 'Modificación', 'Selección', 'Navegador', and 'Vista'. The main window is divided into two panes. The left pane, titled 'Propiedades de tipo', shows a list of parameters for a 'Muro básico' (Basic Wall) type. The right pane shows a 3D model of a building with a gabled roof and multiple windows.

Propiedades de tipo

Familia: Familia de sistema: Muro básico [Cargar...]

Tipo: Fachada monocapa con cámara de aire [Duplicar...]

[Cambiar nombre...]

Parámetros de tipo

Parámetro	Valor
Construcción	
Estructura	[Editar...]
Envolvente en inserciones	Sin envolvente
Envolvente en extremos	Ninguno
Anchura	0.2850
Función	Exterior
Gráficos	
Patrón de relleno de detalle bajo	
Color de relleno de detalle bajo	■ Negro
Materiales y acabados	
Material estructural	Ladrillo cerámico perforado
Propiedades analíticas	
Coefficiente de transferencia de calor (U)	0.8333 W/(m²·K)
Resistencia térmica (R)	1.2000 (m²·K)/W
Masa térmica	0.00 kJ/K
Absortancia	0.700000
Aspereza	3
Emisiones de CO2eq (Fases A1-A5)	
Emisiones de CO2eq (Fases B1-B5)	
Emisiones de CO2eq (Fases C1-C4)	
Reciclabilidad	
Reusabilidad	
Datos de identidad	
Imagen de tipo	
Nota clave	
Modelo	
Fabricante	
Comentarios de tipo	
URL	

[<< Vista previa] [Aceptar] [Cancelar] [Aplicar]

3D View: - Vista 3D: (3D) [Escriba palabra clave o frase] [Iniciar sesión] [?] [Complementos] [Modificar]

3D Model: A 3D perspective view of a building with a gabled roof and multiple windows. The roof is covered with a dark, textured material. The walls are brown with several windows. The building is situated on a grey ground plane.

Bottom Bar: 1 : 100 [Clic para seleccionar, TAB para alternar, CTRL para añadir y MAYÚS para anular una selección.] [Modelo base]

O3. ONLINE RESOURCE CENTRE

O3/A1. IT production of Online Resource Centre.

O3/A2. Pilot BIMclay course implementation: environment test and technical improvements.

O3/A3. Report on the results International Seminar BIMclay (Coimbra, Portugal).



BIMclay. IMPROVE TECHNIFICATION AND LCA QUALIFICATION OF
WORKERS IN CERAMIC SECTOR WITH THE SUPPORT OF BIM APPLICATIONS



PRESS

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OER

Online Resource
Centre



BIM

Objects in BIM
format with LCA data



WHAT IS BIMclay?

BIMclay intends not just to raise awareness, but also to make all entities involved in the construction sector conscious about environment related to clay products, from the extraction of raw materials to manufacture materials of construction to the demolition works or deconstruction of buildings, that is, taking into account the life cycle of materials and construction processes.



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Thank you for your attention!