



Video Implementation Handbook

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Contents:

1. Introduction	3
1.1. About the Name	3
1.2. The Project	3
1.3. Advantages	4
1.4. Innovative elements	5
2. Didactics and methodology	6
2.1. Didactic Aims	6
2.2. Content	6
2.3. Application	7
3. Target Groups	8
3.1. Craftsmen & Site Supervisors	9
3.2. Educators	10
3.3. Building Companies	11
4. Epilog	12

Introduction

1.1. About the Name

The name is kept very simple. It is a „construction videoclip“...the acronym therefore „ConClip“.



1.2. The Project

The Passive House is a leading European building technology and constitutes the fastest growing energy performance standard in the world with 30,000 buildings realised to date. Passive houses save energy costs, are environmentally friendly and provide exceptional health benefits for the occupants. Notwithstanding the success of the Passive House as a leading future building

technology, the new building technology faces three serious challenges which need to be faced if the Passive House is to succeed longterm:

1. Passive House Construction Quality

Due to the newness of the technological solutions implemented in Passive House construction, such as thermal performance, exceptional airtightness and mechanical ventilation, certain construction defects are on the rise in the construction and finishing of Passive Houses damaging Passive House construction quality.

ConClip pinpoints the key construction issues in Passive House construction and delivers on-the-spot solutions by specifying the execution details of the relevant Passive House construction elements.

2. Craftsmen and Site Supervisors Training

A second challenge is the lack of trained craftsmen and site supervisors trained in proper passive house construction. Especially migrant workers (20% of the 11 million people being directly employed in the European construction sector are migrants) have little opportunity in developing new skills and updating existing skills in their respective language.

ConClip provides immediate and easy access via mobile phone to construction know-how for craftsmen and site supervisors by means of a series of short, multi-lingual educational video clips (ConClips)

3. A European quality standard for Passive House construction

A third challenge for the Passive House are the different levels of quality standards for Passive House construction in Europe. The same level of knowledge is needed throughout the construction business in the EU in regard to the expertise of planners, construction companies and their staff to enable cross border assignments and work mobility

ConClip brings the expertise of ten European building organisations to a single focus by offering a format that can be internationally implemented by vocational training and further education institutions throughout Europe and accessed in 8 different languages through the ConClip website without additional costs.

1.3. Advantages

- **ConClips** equip building craftsmen with the right skills for the jobs of today and tomorrow.
- **ConClips** integrate learning with working and facilitate transitions between the phases of work and learning with flexible learning pathways.
- **ConClips** improve access to lifelong learning, to help building craftsmen move to expanding occupations such as those emerging from 'sustainable growth' policies, equal opportunities policy and legislation.
- **ConClips** complement employees with short-term working arrangements, triggered by Flexicurity, with training opportunities.

- **ConClips** address migrant workers in the construction business by offering ConClips in Croatian, Polish, Serbian and Turkish (countries with the highest portion of migrant workers in the sector).
- **ConClips** target the potential of intra-EU mobility and of thirdcountry migrant inflows to meet labour market needs.
- **ConClips** focus on workers with a migrant background and enable migrants to make an even more substantial contribution to employment and growth in the EU shift towards a resource-efficient, low-carbon economy.
- **ConClips** encourage building craftsmen to acquire new skills and update their skills by especially addressing older, low-skilled and migrant workers.

1.4. Innovative elements

- **ConClips** can be used without adaptation in already existing trainings offered by different educational levels such as VET, further training, tertiary level.
- **ConClips** can - without further adaptation - be applied in the actual working environment by target groups with different educational backgrounds.
- **ConClips** are multi-lingual to provide simple access to further education, especially to migrant craftsmen and site supervisors, by eliminating barriers (e.g. language or self-confidence) which migrants usually have to face.
- **ConClips** can be easily accessed basically everywhere (an internet connection presupposed) using modern and widely accessible ICT solutions (mobile phones, internet and social media).
- **ConClips** can be used as a guiding - and at the same time learning - tool while actually working on the construction site.

Didactics and methodology

1.5. Didactic Aims

The most important didactic aim of ConClips is to show **solutions** (How to do it right?)

The logic approach is to show first a bad example. As far as possible in a short, fast format, it is necessary to communicate: What are the consequences of doing it wrong?

E.g., the basic principle of airtightness has to be explained: If the result is bad, the consequence is a difficult and also expensive repairing.

Thereupon, the video has to illustrate how to do it properly.

These principles have to be shown in a realistic environment – on a site or in a similar “laboratory situation”. The best way to show how to do it right / wrong is that the way doing it right can be identified with one construction worker, the way to do it wrong with another: Identification with the place and the acting persons is a relevant aspect of didactics.

1.6. Content

Four basic points of the ConClip’s design are:

- Setting: Scale 1:1 (realistic site’s environment)
- One / two workers as protagonists
- Off-speaker for short, simple explanations
- Key words as text inserts

In general, the challenges in passive house design are divided into 8 themes, each of them dealing with a specific problem:

Design • Foundation and basement • Exterior walls • Windows and solar screening • Roof • Air tightness • Thermal bridges • Heating, ventilation & hot water production

This list will be modified in progress: The issues have to be adapted to the specific needs of construction workers’ everyday –based more on the needs of skill than of knowledge.

Air tightness and thermal bridges are kinds of key issues – their importance in building passive houses will be a general topic within the ConClips, repeated in different aspects.

1.7. Application

One of the main demands for the production of ConClips is that they have to be “multifunctional”, i.e. they have to be produced that way that they can be applied in a functional way in a “classical” teaching situation – presented by means of a video beamer – and also as an ad-hoc-source of assistance at a building site – watched e.g. via a smartphone or a tablet computer:

The format and the contents which were developed can fulfil that wide range of applications.

After the first three ConClips will be produced, didactics and methodology of integrating them into existing teaching programmes will be elaborated more precisely.

Target Groups

Overview

The VideoClips produced in this project have several target groups. First and foremost craftsmen and site supervisors have to have the added know-how at their fingertips.

Here an overview at a glance:



Craftsmen & Site Supervisors:

ConClip Videoclips give you the added know-how for Passive House construction - on your mobile!



Educators:

ConClip Videoclips offers you an effective new teaching approach for the training in high-quality Passive Houses!



Building Companies:

ConClip Videoclips delivers a modern approach to providing new skills for craftsmen and improving the construction quality of Passive Houses!



1.8. Craftsmen & Site Supervisors

In connection with the construction of passive houses, the craftsmen and site supervisors are the persons on the site during the construction.

They must have access to the necessary information and accessibility in the different situations that may occur in relation to construction of a passive house.

The “ConClip” platform is accessible 24 hours a day / 7days a week, all year round. Therefore the craftsman only needs a smartphone with mobile internet access and has immediate access to all the Clips on the platform in the language best understood for him.

It is recommended though to watch the clips in an environment a bit off site, where the craftsman has enough distance to sources of noise, dust and especially different dangers that can arise on site (i.e. lifting of elements etc.)



1.9. Educators

Schools should also have access to the video clips.

Although the use of these video clips is primarily designed for users on the site, they are also provided to be used in training courses and seminars. For this purpose, there are specific documents that are available. The video clips can be downloaded via the Internet with the appropriate hardware and presented in classrooms of any proportion. In a classroom-like setting, the video clips can be used in connection with various classes and incorporated into various lectures. This happens in conjunction with the documents provided, as well as applications for possible practical courses in training centers with the necessary infrastructure.



1.10. Building Companies

Performing companies, trade unions and chambers can use the video clips for training purposes.

The benefits will probably be best for building companies and other tradespeople whose trade overlaps in other processes and workflows on the construction site. Here the company is given the opportunity to use the clips individually according to their needs together with the documents provided. This can happen in intern training courses in the company or one-to-one lessons.

Epilog

For questions related to the project please contact:
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For more information about the project visit:
www.conclip.eu

Disclaimer

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