

# MISSION CRITICAL GREEN ROOF CASE STUDY



## Introduction

Green roofs have many benefits at economic, ecological and societal levels. A Green roof provides a rainwater buffer, purifies the air, reduces the ambient temperature, regulates the indoor temperature, saves energy and encourages biodiversity in the region. Green roofs are part of climate-proof construction and at MOY we have the experience and expertise in delivering green roof solutions to mission critical facilities.

MOY offers a range of green roof finishes suitable to both extensive and intensive applications. These systems are selected, designed and installed in close collaboration with the relevant stakeholders in the project including Clients/Building Owners, Architects and Engineers, Main Contractors and Sub Contractors.

MOY combine the planting scheme and its component parts with our range of high performance mission critical waterproofing system solutions. We provide full system warranties offering total peace of mind for all stakeholders.



Completed Sedum Roof installed to mission critical facility, Dublin, Ireland





# BENEFITS OF GREEN ROOFING



MOY Green roofs don't just enhance the appearance of the roof area by making the roof area more aesthetically pleasing, they have a number of other benefits that clients / building owners and designers can consider for different key geographic regions. Some of these include the following:

- Providing a rainwater buffer (Blue Roofing)
- Purifies the air
- Reduces the ambient temperature
- Increases solar panel efficiency
- Reduces ambient noise outside and inside
- Extends life span of roof
- Adds value to the building
- Increases biodiversity
- Moy Green Roofs can be designed to sequester carbon in specially selected plants and growth media to maximise the carbon offset of the building



\*Please visit the following link for photographs and information on completed MOY Extensive and Intensive Green Roof Systems.



"United in diversity"

MOY works in a number of territories across the globe and works to ensure its systems have been tested, approved and certified by the official bodies ensuring peace of mind and confidence.





# Completed Project



The Data Centre build just outside Dublin involved MOY working with the client, their design team, main contractor and roofing installer on the roof installation of the extensive green roof. The Green Roof was installed over a MOY Paraflex FM Global approved Warm Roof System using Paratherm T 120mm insulation board and an antiroot cap sheet. The roof was finished with sedum blanket over the MOY green roof build up.

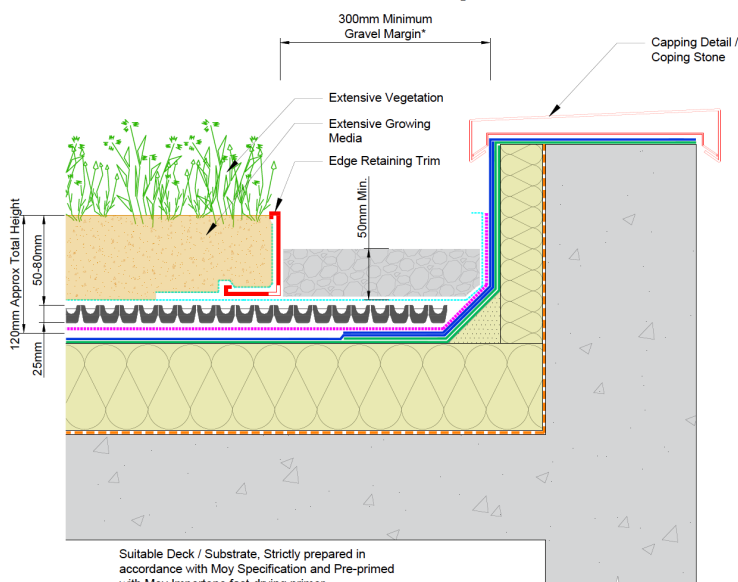


(Completed Data Centre Green Roof area)

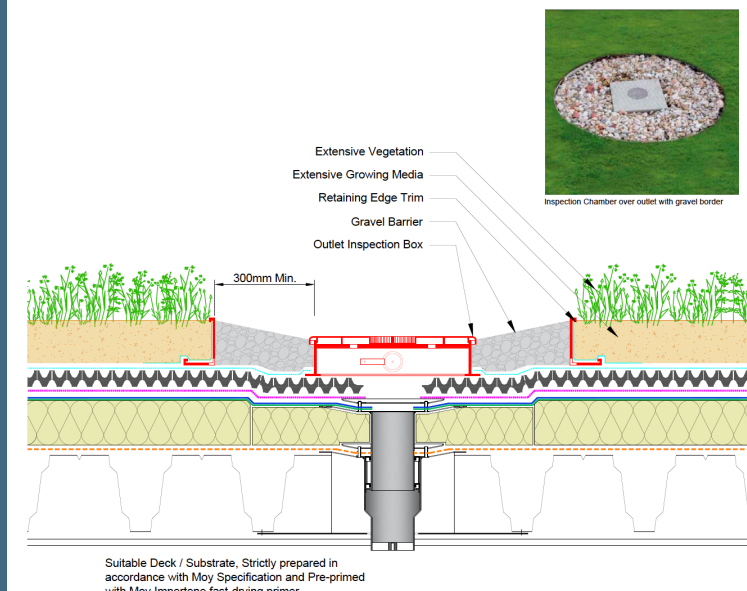
## Design Assistance

Correct specification is critical for successful waterproofing. MOY will issue detailed specifications for mission critical green roof systems, taking particular note of project specific issues and details. We can offer specifications in both standard form and also in N.B.S. formats from our technical teams in Ireland, the UK and Europe. With hands on experience relating to mission critical waterproofing systems, we can offer advice in a friendly and knowledgeable fashion.

### Green Roof Parapet Wall



### Green Roof Outlet Detail



(Section Thru of MOY Green Roof System)

Please contact us for further information on any of the projects

<https://moymaterials.com/green-roofing/>

# CPD Presentations

MOY are providers of CPD presentations approved by the RIAI and the RIBA. Our presentations usually take place over lunchtime and consist of a Powerpoint presentation on flat roof design and associated issues with question and answer sessions following. At present we have several presentations available to interested parties, these include:

- Mission Critical Waterproofing
- Green Roof Technology
- Achieving Zero leaks in flat roofs

With the current restrictions around the Covid-19 crisis we are now offering our CPD presentations thorough online conferencing platforms such as Microsoft Teams and Zoom. This system has added benefits as we are able to host the question and answer session during the presentation via the chat room function. We have delivered this successfully to Architects and Main Contractors.

## Building Information Modelling

Building Information Modelling is taking the design and construction industries to a new level of sophistication. We are constantly improving our BIM objects and BIM services for our FM Global systems and our intensive and extensive green roof systems.

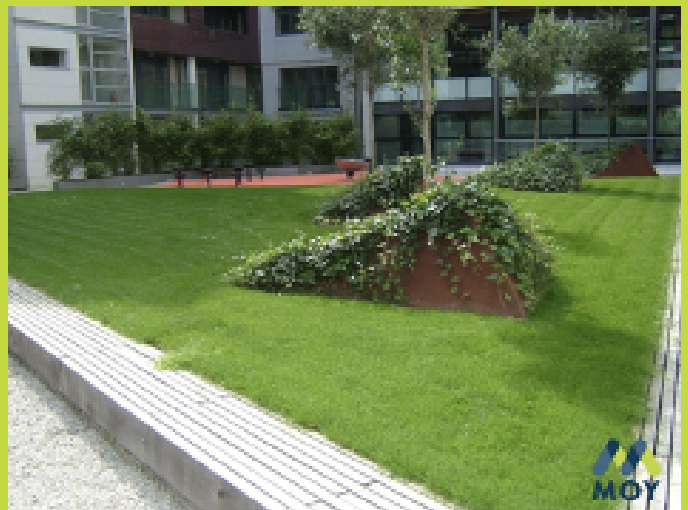
## Other Projects Completed

Extensive Green Roof Systems





# Intensive Green Roof Systems



## IRELAND

Moy Materials Ltd.,  
Unit K, South City Business Park,  
Whitestown Way,  
Tallaght, D24 PE83

+353 (0)1 451 9077  
[info@moymaterials.com](mailto:info@moymaterials.com)

## ENGLAND

Moy Materials (UK) Ltd.  
Victoria House (4th Floor),  
Victoria Road,  
Chelmsford, CM1 1JR

+44 (0)1245 707 449  
[info@moymaterials.co.uk](mailto:info@moymaterials.co.uk)

## SCOTLAND

Moy Materials (Northern) Ltd.  
6 Mackean Street,  
Paisley, Glasgow,  
PA3 1QP

+44 (0)141 840 4660  
[enquiries@moymaterials.co.uk](mailto:enquiries@moymaterials.co.uk)

## GERMANY

Moy Materials  
Hanauer Landstraße 126-128,  
15 Etage,  
60314 Frankfurt am Main

+49 69 50 95 75 551  
[info@moymaterials.de](mailto:info@moymaterials.de)