

PHOTO 1



PHOTO 1

PHOTO 1 (b)

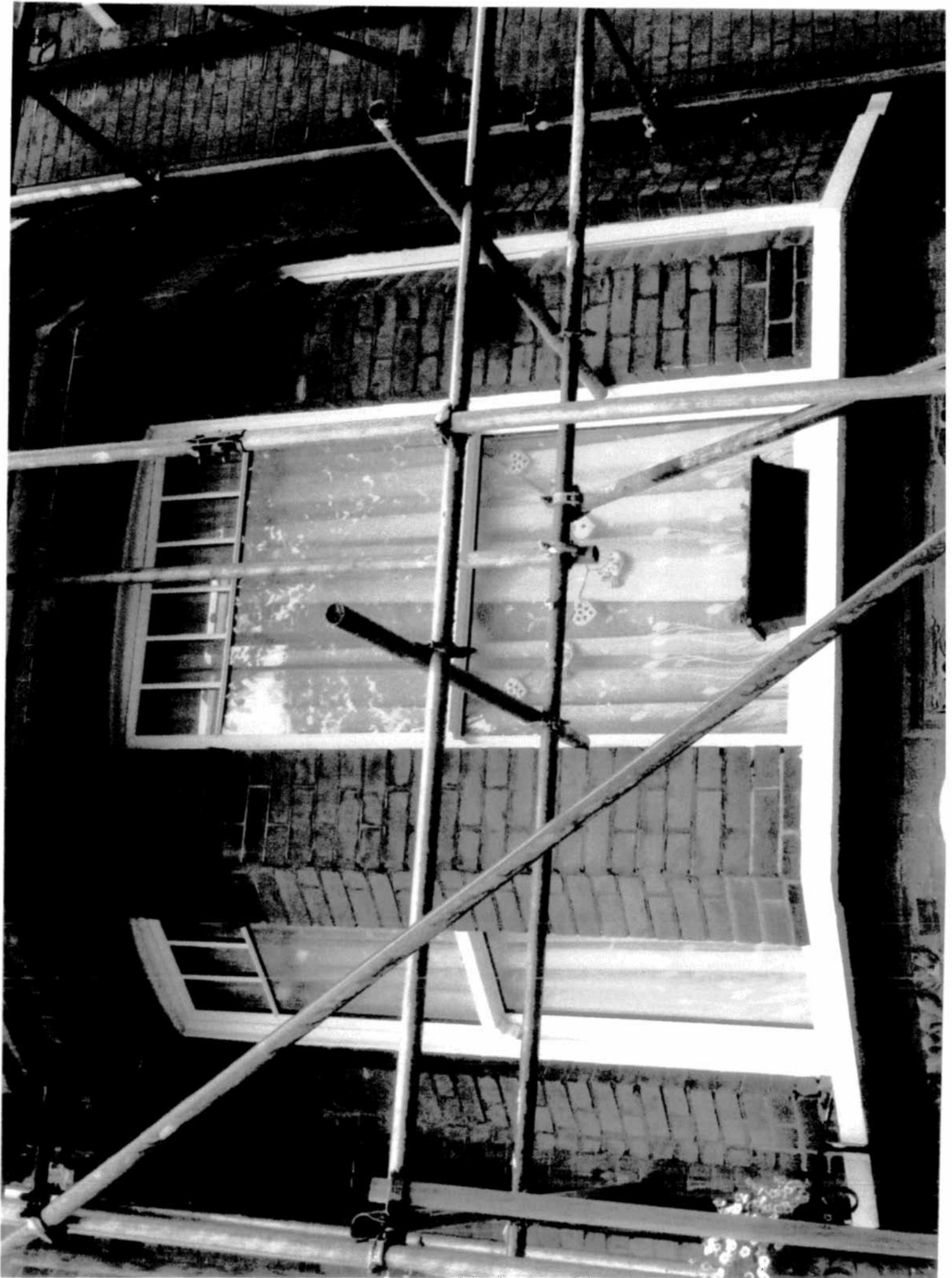


PHOTO 1 (b)

PHOTO 1 (a)



PHOTO 1 (a)

PHOTO 2



PHOTO 2

PHOTO 3

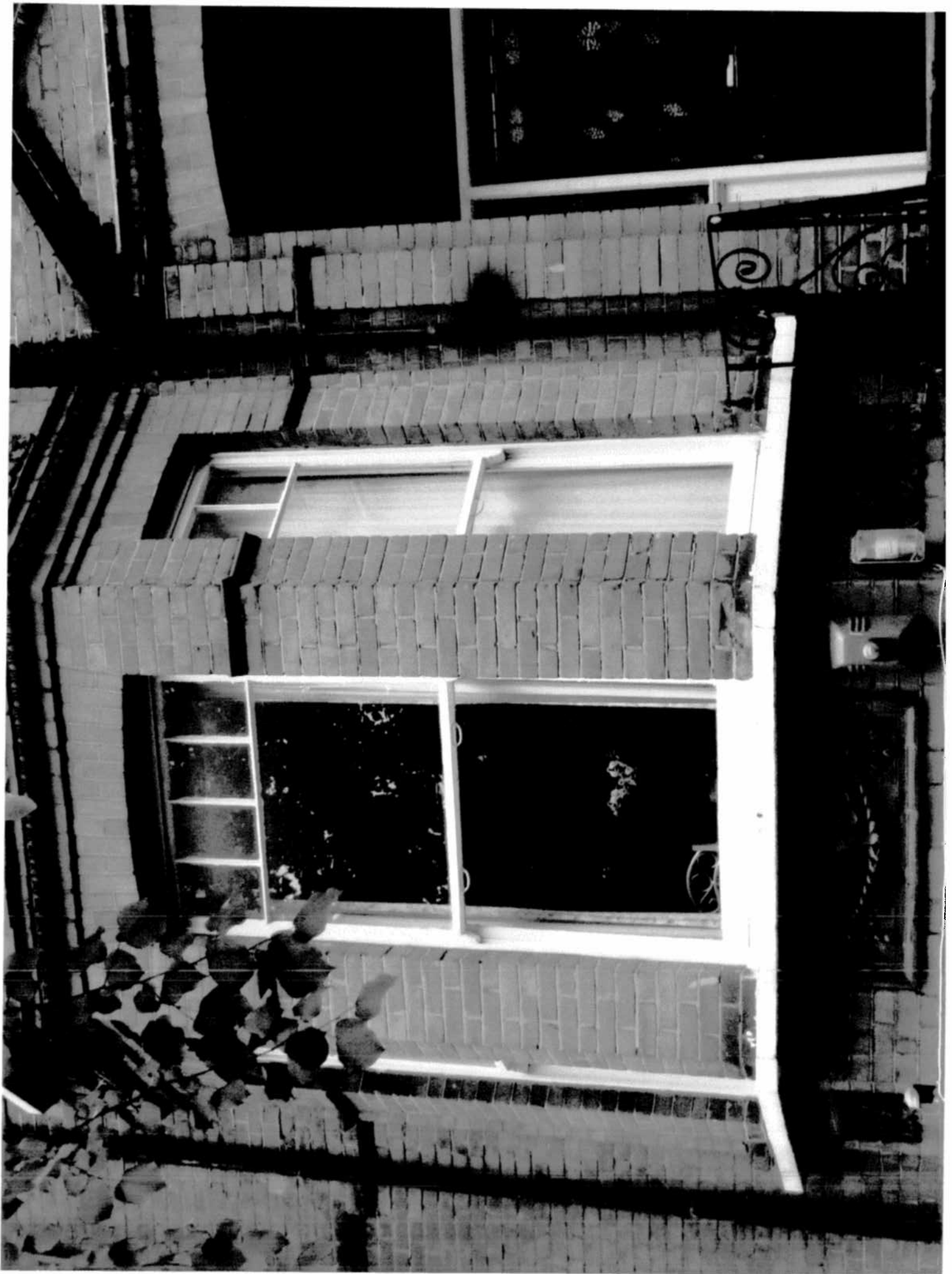


PHOTO 3

PHOTO 4



PHOTO 4

PHOTO 5



PHOTO 5

PHOTO 6



PHOTO 6

PHOTO 7

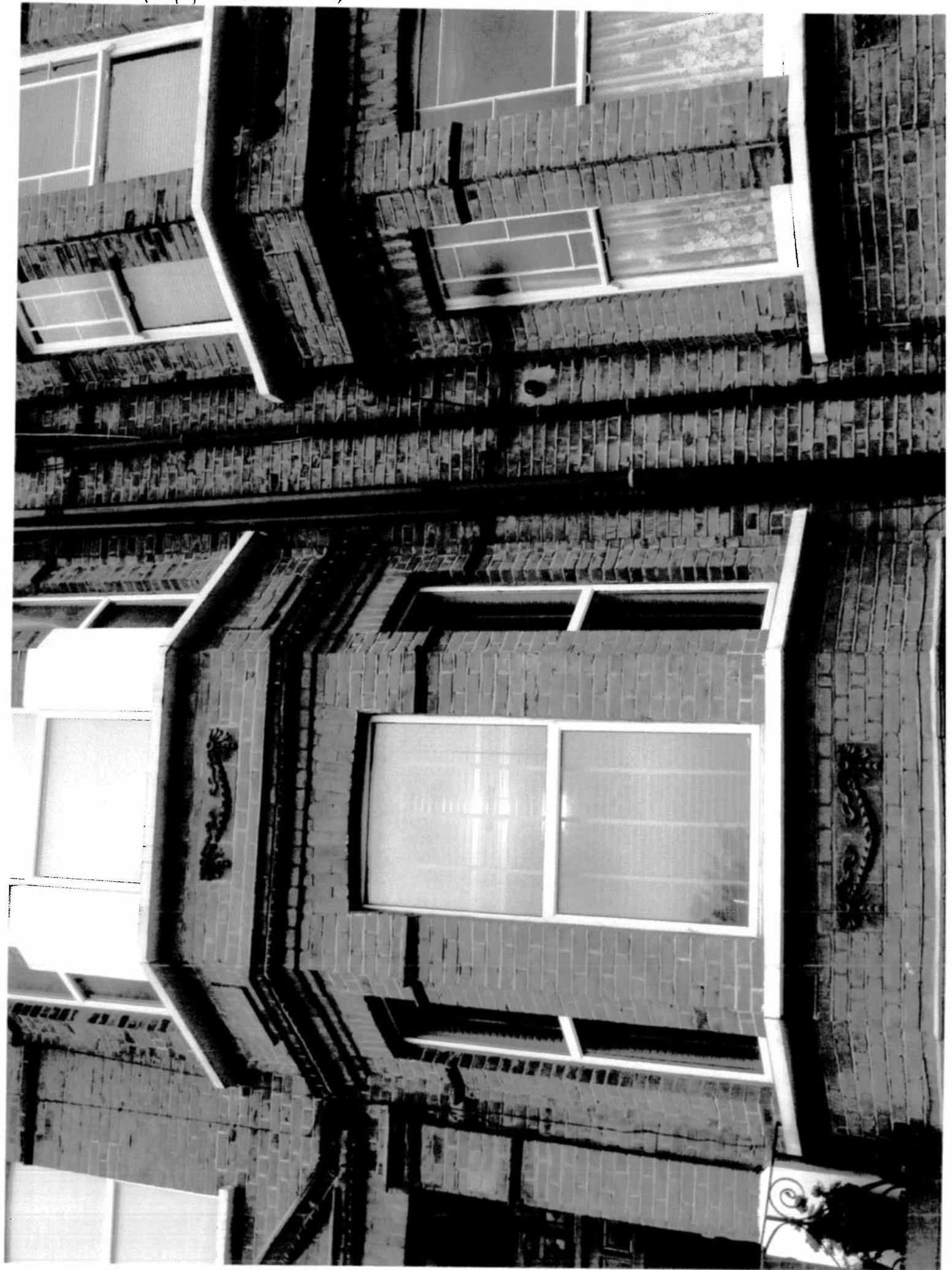


PHOTO 7.

PHOTO 8

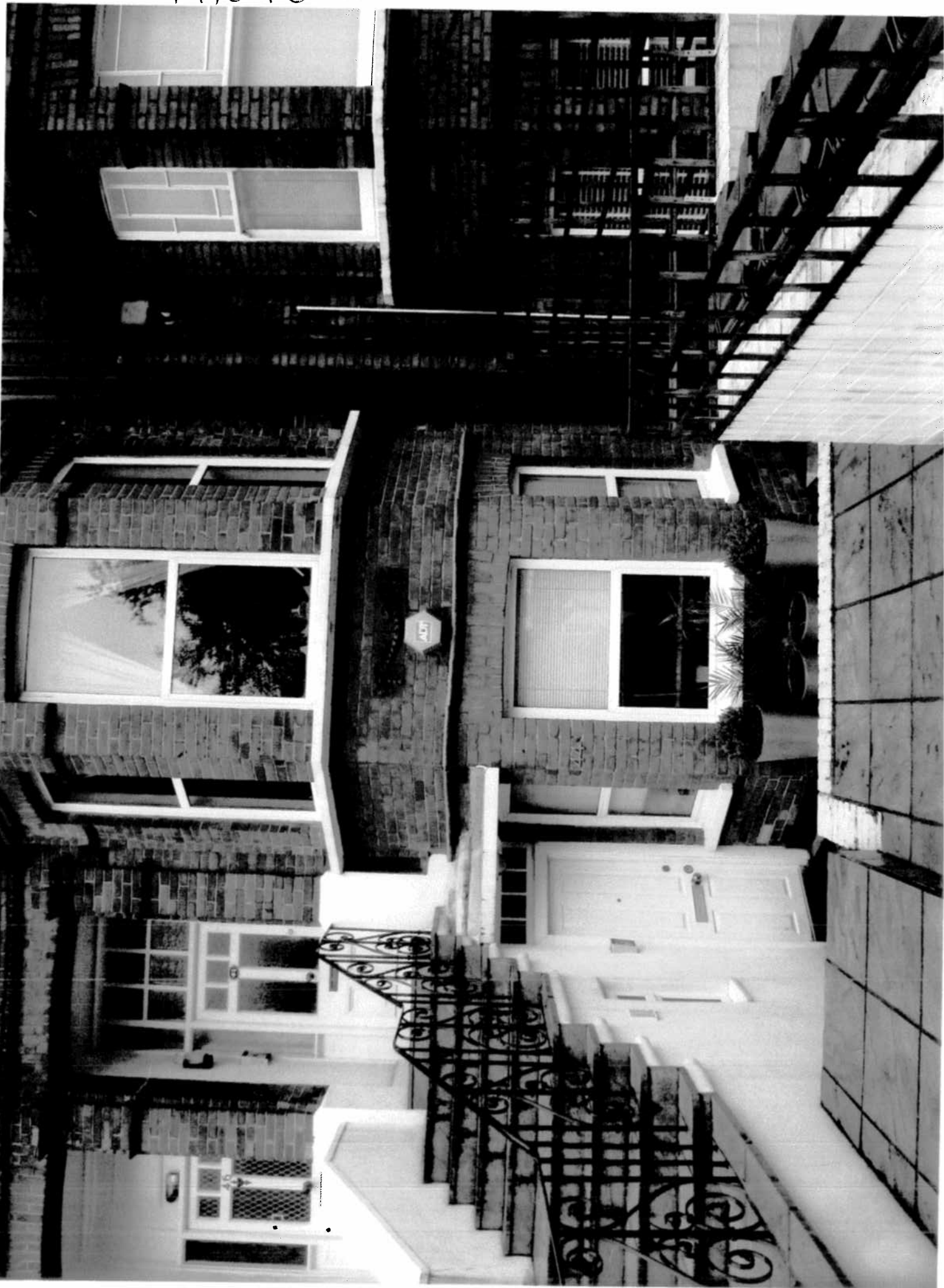


PHOTO 8

PHOTO 4



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PHOTO 4

PHOTO 10



PHOTO 10

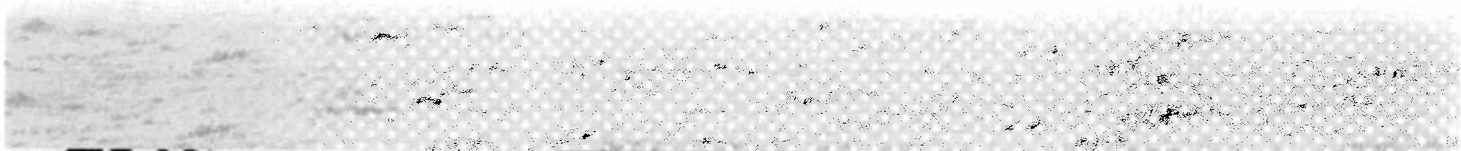
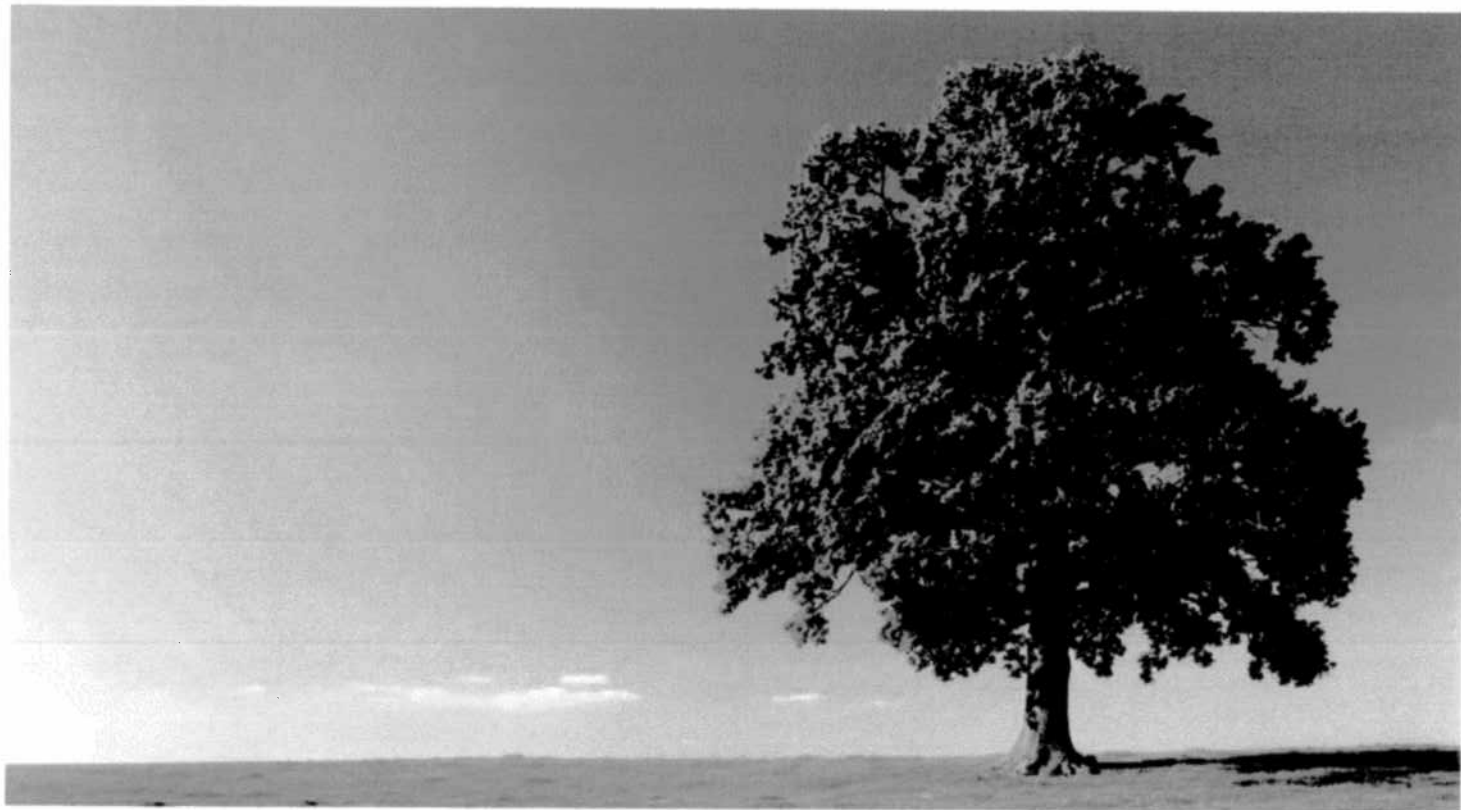
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PHOTO 11



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PHOTO 11



“carrying the  
green issue  
further”



KÖMMERLING®



# *An environmental story*



- As environmental impacts of human and industrial activity become widely recognised, the need for social responsibility and sustainable activity increases. Whilst offsetting carbon emissions, reducing chemical pollution and recycling are often considered a cost burden, KÖMMERLING have always acknowledged and strived to realise the benefits of environmentally friendly pursuits, knowing that business growth and sustainable development are not always mutually exclusive.

As the European market leader, KÖMMERLING takes its environmental responsibility very seriously, assuming its commitment to protecting our eco-system. In fact KÖMMERLING already complies with the requirements of the "Vinyl 2010" initiative, a ten-year voluntary programme on Sustainable Development within the PVC industry. In 2001 KÖMMERLING began producing the industry leading unleaded PVC-u **greenline**® formula and has since pioneered further with the launch of the innovative recycling initiative, **recycline**®.

This publication provides an overview of our environmental initiatives, **greenline**® and **recycline**®, highlighting the advances that have been made to ensure our daily operations have a minimal impact on the world around us. It identifies the social and economical benefits sustainability can produce for KÖMMERLING customers, demonstrating that environmentally friendly initiatives can reap many rewards for those who pursue them.



- For more than a century, KÖMMERLING has invested its know-how and resources in research and innovation. Advanced technology has enabled KÖMMERLING to offer products of exceptional quality and continues to lead the European market for PVC-u window and door profiles.

As a market leader KÖMMERLING goes further and embraces the responsibilities of an industry that is faced with the challenges of preserving a balanced and harmonious environment.

The **greenline**<sup>®</sup> concept has been developed out of concern for the environment and perfected with the purpose to preserve natural resources.

KÖMMERLING is one of few large profile manufacturers to deploy raw materials based on calcium-zinc chemical stabilizers as a standard in its production of PVC-u profiles. It thereby avoids lead throughout the entire manufacturing process.

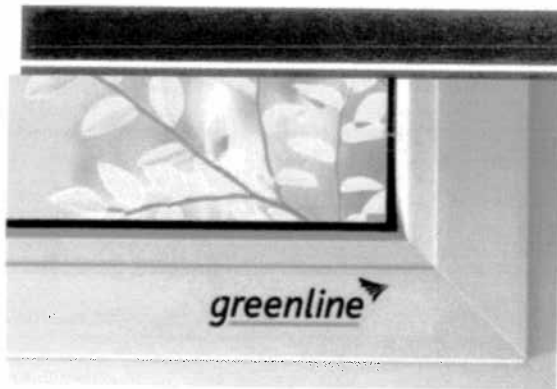
In 2001 KÖMMERLING began using **greenline**<sup>®</sup> formula to produce PVC-u at their highly advanced manufacturing plant, enabling complete exclusion of heavy metals from the entire production processes.

KÖMMERLING welcomes the responsibility of caring for the environment, and furthermore, our products comply with the EU Environment Commission's aim to avoid lead as a stabilizer in industrial production.

KÖMMERLING takes this role very seriously for people and the environment, now and in the future through **greenline**<sup>®</sup> profiles. **greenline**<sup>®</sup> profiles are already meeting tomorrow's environmental standards today. Everyone who selects this advanced generation of PVC-u windows and doors will have also chosen to support a more environmentally friendly and sustainable building product.

Due to its unique properties, PVC-u is widely recognized as one of the best and most fit-for-purpose materials for windows and doors. Now **greenline**<sup>®</sup> adds benefits to every stage of its lifecycle, making your decision to use PVC-u windows and doors even easier.

Added value at no extra cost - **greenline**<sup>®</sup> boosts the benefits of PVC-u windows



**greenline**<sup>®</sup>, PVC-u windows become even more environmentally friendly due to the well recognized heat insulation properties which contributes to protecting our climate.



Everyone benefits, the home owner and fabricator alike, with PVC-u **greenline**<sup>®</sup> products. They provide all the acknowledged advantages of the regular PVC-u material, with excellent sustainability at no additional cost.

Choose **greenline**<sup>®</sup> and you are opting for a product that not only provides value now but will hold its value and remain in excellent condition for generations to come.

It offers durability, long service life, excellent thermal insulation, outstanding weathering resistance and improved high quality surface finish.



## *Drawing a line under PVC-u waste*

- **recycline®**, an initiative to reduce PVC-u waste by 100%, provides a complete service for fabricators to ensure window profiles are efficiently recycled. Using the latest processing technology and a full integrated collection and distribution system, fabricators and their customers can enjoy sustainable windows with minimal disruption.

The PVC industry Vinyl 2010 initiative actively encourages those in the trade to invest and realise the advantages of recycling; and **recycline®** does exactly that. **recycline®**, a KÖMMERLING recycling scheme directly tackles many environmental and legislative issues whilst delivering a cost effective service to all fabricators.

PVC-u is widely recognised as one of the best and most fit-for-purpose materials for windows and doors. PVC-u is durable for 50 years or more and can tolerate all weather conditions and extreme temperatures. Rather than dispose of this valuable and durable material, **recycline®** endeavours to recycle PVC-u, significantly reducing the burden on landfill site.

**recycline®** aims to eradicate waste from profile production but it also presents huge benefits to our partners who use the service.

KÖMMERLING fabricators are also certified as a sustainable fabricator, helping them to attract the ever increasing numbers of architects, house builders and consumers who insist on using recyclable products.

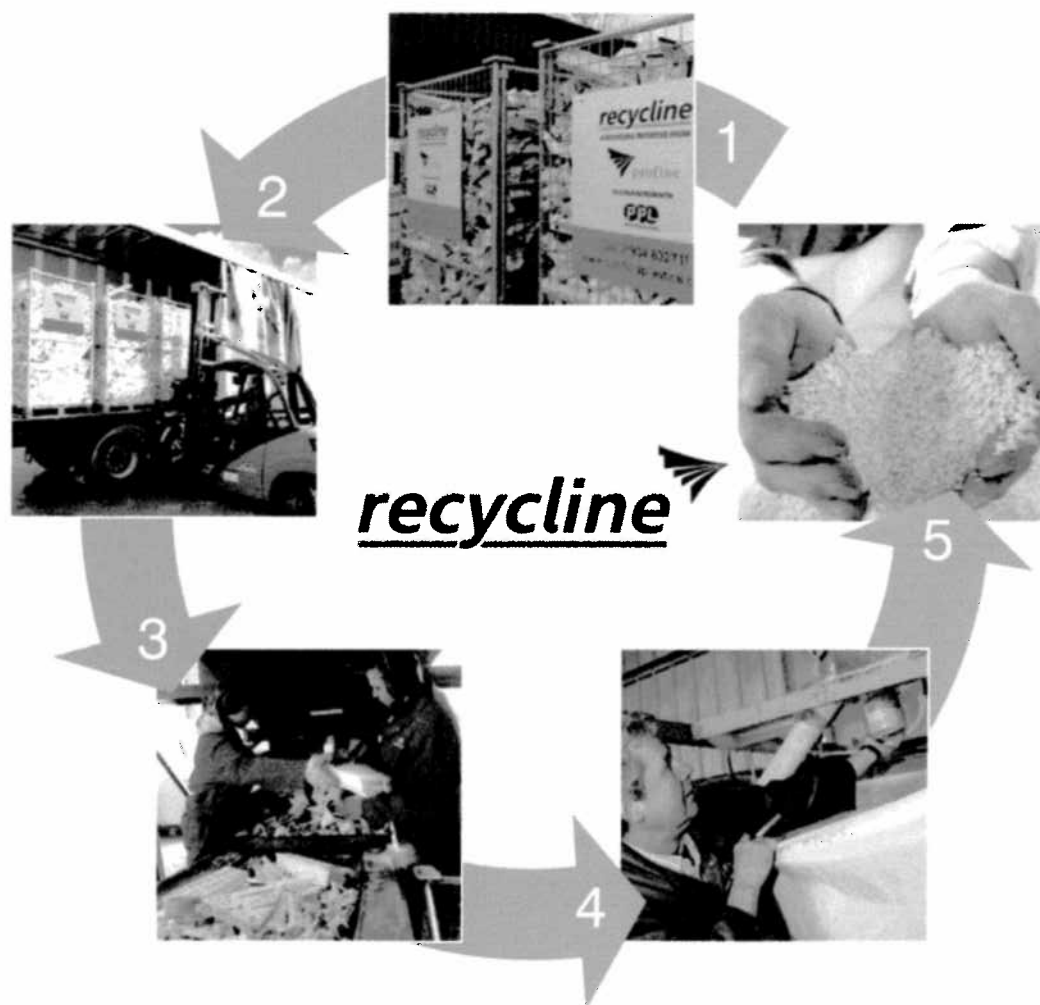
For more information on how **recycline®** can revolutionise your waste management please contact KÖMMERLING.



With legislation over the disposal of non-hazardous waste introduced in October 2007 and continuous increases in landfill tax expected to reach 270%; **recycline®** dramatically reduces costs associated with the disposal of waste for our fabricator, allowing all customers to reap the benefits with immediate effect.

In the past, fabricators have paid to dispose their waste, but this revolutionary service not only eradicates the cost but supports our partners who supply waste PVC-u to **recycline®**. They receive all relevant paperwork for waste disposal proving an auditable paper trail in compliance with the Environmental Protection Act 1990.





## **recycline**

The recycline® recycling process couldn't be simpler!

### **Step 1:**

Partners of the **recycline**® initiative dispose of all off-cuts and other profile waste produced in allocated cages, which are located onsite.

### **Step 2:**

Once the cages are full with profile waste, they are collected and emptied by **recycline**® lorries.

### **Step 3:**

**recycline**® lorries then transport the waste to Penfold Plastics where both the PVC-u and rubber is ground into granules.

### **Step 4:**

The granules are then put through a sortex machine which separates the PVC-u granules from the rubber.

### **Step 5:**

PVC-u granules are then transported back to our manufacturing plants to be reprocessed into PVC-u.

These 5 simple steps not only benefit Kömmerling fabricators and their customers in terms of cost effectiveness, but it also reduces the impact on our environment.

**recycline**® – benefiting you, your customers & our environment