

Roshenaim Building-Rebar

Redevelopment of the former Odeon site and demolition of the Rosenheim Building to provide a Proton Beam Therapy (PBT) cancer treatment facility and day surgery facilities in 4 levels of basement; inpatient medical facilities and a ground floor retail unit (175 sq m approximate GIA) in a 7 storey development above ground (34,596.5 sq m GIA in total) including roof plant, a new pedestrian entrance on corner of Grafton Way and Huntley Street, a new service entrance on Huntley Street, a ground floor drop-off area off Grafton Way, and three roof gardens; and the relocation of the oxygen tanks to University Street frontage inside a new enclosure. (Camden council)



Common rebar is made of tempered unfinished steel. In fact the concrete is able to create a pH value higher than 12, this avoid the erosion. So it is extremely important that there is enough concrete to create a shield against erosion

Rebar

Rebar also known as reinforcing steel bar is mostly used for reinforced concrete to strength the concrete (especially in tension) and to hold it.

The Rabar are placed by Iron Workers. (see picture on the right)

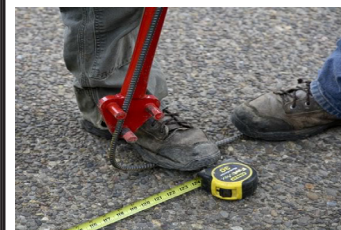
With the help of the bar supports and rebar spacers that separate the rabars from the concrete form work. This allow to create a good concrete cover that makes sure the rebar are properly fixed. The rebars



Rebar can also be recycled. As this is building is being demolished the extraction and recycling of rebar could be important. This is common in China where the workers remove the rabar.

Summary of reuse and recycling rate from the 2012 Eurofer survey (with additional responses)

| Product | % Reused | % Recycled | % Lost |
|---|----------|------------|----------|
| Heavy structural sections/tubes | 7 | 93 | 0 |
| Rebar (in concrete superstructures) | 0 | 98 | 2 |
| Rebar (in concrete sub-structure or foundations) | 2 | 95 | 2 |
| Steel piles (sheet and bearing) | 15 | 71 | 14 |
| Light structural steel | 5 | 93 | 2 |
| Profile steel cladding (roof/facade) | 10 | 89 | 1 |
| Internal light steel (e.g. plaster profiles, door frames) | 0 | 94 | 6 |
| Other (e.g. stainless steel) | 4 | 95 | 1 |
| Average (across all products) | 5 | 91 | 4 |



Rebar can be fabricated both and on and off site.
For small and customized works Hickey is used (see picutre on the right) to bend or cut the rebar.