

# Bitter

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- Gravity **13.8 BLG**
- ABV ---
- IBU **30**
- SRM **10.9**
- Style **Extra Special/Strong Bitter (English Pale Ale)**

## Batch size

- Expected quantity of finished beer **20 liter(s)**
- Trub loss **5 %**
- Size with trub loss **21 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **25.3 liter(s)**

## Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **1.5 liter(s)**
- Total mash volume **2 liter(s)**

## Fermentables

Type	Name	Amount	Yield	EBC
Liquid Extract	WES ekstrakt słodowy jasny	3.4 kg (87.2%)	80 %	---
Grain	Strzegom Karmel 150	0.15 kg (3.8%)	75 %	150
Grain	Strzegom Karmel 30	0.35 kg (9%)	70 %	150

## Hops

Use for	Name	Amount	Time	Alpha acid
Boil	northdown	20 g	60 min	7.8 %
Boil	Target	25 g	15 min	8 %

## Yeasts

Name	Type	Form	Amount	Laboratory
FM13 Irlandzkie Ciemności	Ale	Liquid	130 ml	Fermentum Mobile