

# Wakacyjne

- Gravity **12.5 BLG**
- ABV ---
- IBU **52**
- SRM **11.5**
- Style **Extra Special/Strong Bitter (English Pale Ale)**

## Batch size

- Expected quantity of finished beer **25 liter(s)**
- Trub loss **5 %**
- Size with trub loss **26.3 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **31.7 liter(s)**

## Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **3.5 liter(s) / kg**
- Mash size **20.1 liter(s)**
- Total mash volume **25.9 liter(s)**

## Steps

- Temp **55 C**, Time **10 min**
- Temp **62 C**, Time **30 min**
- Temp **72 C**, Time **60 min**

## Mash step by step

- Heat up **20.1 liter(s)** of strike water to **60C**
- Add grains
- Keep mash **10 min** at **55C**
- Keep mash **30 min** at **62C**
- Keep mash **60 min** at **72C**
- Sparge using **17.4 liter(s)** of **76C** water or to achieve **31.7 liter(s)** of wort

## Fermentables

Type	Name	Amount	Yield	EBC
Grain	Strzegom Pilzneński	3 kg (52.2%)	80 %	4
Grain	Strzegom Pale Ale	2.2 kg (38.3%)	79 %	6
Grain	Strzegom pszeniczny	0.3 kg (5.2%)	81 %	6
Grain	Strzegom Karmel 300	0.25 kg (4.3%)	70 %	299

## Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Magnum	20 g	60 min	13.5 %
Boil	Kezбек	20 g	60 min	4.6 %
Boil	Magnum	10 g	30 min	13.5 %
Whirlpool	Magnum	10 g	0 min	13.5 %
Whirlpool	Kezбек	20 g	0 min	4.6 %
Boil	Magnum	10 g	10 min	13.5 %
Boil	Kezбек	10 g	10 min	4.6 %

## Yeasts

Name	Type	Form	Amount	Laboratory
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Safale S-04	Ale	Dry	11.5 g	Safale
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