

# Black IPA z resztek i nie tylko

- Gravity **15 BLG**
- ABV **6.2 %**
- IBU **59**
- SRM **29.5**
- Style **Black IPA**

## Batch size

- Expected quantity of finished beer **20 liter(s)**
- Trub loss **5 %**
- Size with trub loss **21.2 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **25.5 liter(s)**

## Mash information

- Mash efficiency **80 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **16.7 liter(s)**
- Total mash volume **22.3 liter(s)**

## Fermentables

| Type  | Name                       | Amount          | Yield | EBC |
|-------|----------------------------|-----------------|-------|-----|
| Grain | Strzegom Pale Ale          | 4 kg (68.7%)    | 79 %  | 6   |
| Grain | Carafa II                  | 0.254 kg (4.4%) | 70 %  | 812 |
| Grain | Jęczmień palony            | 0.065 kg (1.1%) | 55 %  | 985 |
| Grain | Czekoladowy                | 0.2 kg (3.4%)   | 60 %  | 788 |
| Grain | Cara Gold<br>Castlemalting | 0.8 kg (13.7%)  | 78 %  | 120 |
| Grain | Caramunich I               | 0.25 kg (4.3%)  | 73 %  | 80  |
| Sugar | cukier kuchenny            | 0.25 kg (4.3%)  | 80 %  | 0   |

## Hops

| Use for | Name    | Amount | Time     | Alpha acid |
|---------|---------|--------|----------|------------|
| Boil    | Mosaic  | 3 g    | 60 min   | 11.8 %     |
| Boil    | Magnum  | 29 g   | 60 min   | 12 %       |
| Boil    | Cascade | 25 g   | 45 min   | 6 %        |
| Boil    | Fuggles | 30 g   | 15 min   | 4.3 %      |
| Boil    | Cascade | 25 g   | 1 min    | 6 %        |
| Dry Hop | Cascade | 50 g   | 5 day(s) | 6 %        |

## Yeasts

| Name         | Type | Form | Amount | Laboratory |
|--------------|------|------|--------|------------|
| Safale US-05 | Ale  | Dry  | 11.5 g | Fermentis  |