

# Tracciato informatico per la trasmissione dei dati di ingresso utilizzati per il calcolo della prestazione energetica dell'edificio

**DGR 1275/2015 art. 3, comma 14**

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## Tracciato informatico per la trasmissione dei dati di ingresso utilizzati per il calcolo della prestazione energetica dell'edificio DGR 1275/2015 art. 3, comma 14

La Deliberazione di Giunta Regionale n. 1275/2015 riportante la nuova disciplina in materia di attestazione della prestazione energetica degli edifici (certificazione energetica), prevede, al comma 14 dell'art. 3, che *"contestualmente alla registrazione di cui al comma precedente, il soggetto certificatore provvede, anche ai fini dell'effettuazione dei successivi controlli, all'invio dei dati di ingresso utilizzati per il calcolo della prestazione energetica dell'edificio, con le modalità specificate in Allegato A-2. La registrazione dell'Attestato è subordinata all'invio dei dati di cui al presente comma"*.

In Allegato A-2 è poi specificato che *"l'applicativo informatico SACE è predisposto per consentire l'invio dei dati di cui al comma 2 in modo automatico, mediante utilizzo del tracciato informatico il cui formato viene definito dall'Organismo Regionale di Accreditamento e reso pubblico per consentirne l'utilizzo da parte dei produttori di software commerciali, o manuale, mediante l'inserimento dei dati richiesti nelle maschere di interfaccia appositamente predisposte. Al fine di consentire il necessario aggiornamento dei software commerciali, le disposizioni di cui al presente comma si applicano a decorrere da 90 giorni dalla data della pubblicazione del formato standard del tracciato informatico da parte dell'Organismo Regionale di Accreditamento. Tali condizioni si applicano anche nel caso di successivi aggiornamenti del formato standard del tracciato informatico"*.

Assolvendo a tale disposizione, il presente documento – pubblicato dall'Organismo regionale di Accreditamento - riporta il tracciato informatico necessario allo sviluppo su applicazioni di terze parti dei moduli che consentono l'importazione nel sistema S.A.C.E. della Regione Emilia Romagna di due gruppi di dati: a) dati APE e b) dati di calcolo.

Il gruppo "dati APE" contiene i dati minimi necessari per la compilazione dell'Attestato di Prestazione Energetica, mentre il secondo gruppo di dati "dati di calcolo" contiene i dati di ingresso necessari sia per il calcolo della prestazione energetica dell'edificio sia per i controlli dei qualità dell'attestato di prestazione energetica in accordo all'Allegato 6 della DGR 1275/2015.

L'operazione di inserimento di entrambi i gruppi di dati può avvenire sia mediante una interfaccia utente direttamente dal browser, sia mediante il caricamento automatico del tracciato in formato xml basato sullo schema standard (xsd) riportato nel presente documento.

Il tracciato verrà messo a disposizione in ambiente test per le opportune verifiche di funzionalità.

L'importazione permette sia per l'inserimento di un attestato ex-novo o l'aggiornamento di uno esistente che non sia stato ancora consolidato (completato).

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locali con la stessa destinazione d'uso.</xs:documentation>
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continuativo
1=E1(1)bis collegi, luoghi di ricovero, case di pena, caserme, conventi
2=E1(2) abitazioni adibite a residenza con occupazione saltuaria
3=E1(3) edifici adibiti ad albergo, pensione ed attività similari
4=E2 uffici e assimilabili
5=E3 ospedali, cliniche, case di cura e assimilabili
6=E4(1) cinema e teatri, sale di riunione per congressi e assimilabili
7=E4(2) mostre, musei e biblioteche, luoghi di culto e assimilabili
8=E4(3) bar, ristoranti, sale da ballo e assimilabili
9=E5 attività commerciali e assimilabili
10=E6(1) piscine, saune e assimilabili
11=E6(2) palestre e assimilabili
12=E6(3) servizi di supporto alle attività sportive
13=E7 attività scolastiche
14=E8 attività industriali, artigianali e assimilabili</xs:documentation>
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(sommatoria di quella dei locali)
[m2]</xs:documentation>
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(sommatoria di quello dei locali)
[m3]</xs:documentation>
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[m2]</xs:documentation>
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                    1=Pavimento
                    2=Soffitto
                    3=Parete Speciale</xs:documentation>
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                    1=Muro di trombe
                    2=Facciata ventilata</xs:documentation>
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                    [m²]</xs:documentation>
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                    [W/m²K]</xs:documentation>
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                    1=Progetto
                    2=Da produttore</xs:documentation>
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</xs:complexType>
</xs:element>

```



```

componente STRATIGRAFIA</xs:documentation>
superficie:
0=chiaro
1=medio
2=scuro</xs:documentation>
senso antiorario:
_0°=Sud
45°=SudOvest
90°=Ovest
etc...
NON significativa per superficie ORIZZONTALE</xs:documentation>
superficie espressa in Gradi compresa fra 0° (orizzontale) e 90° (verticale)</xs:documentation>
name="fattoreOmbreggiaturaDiffusa" default="1">
ombreggiatura relativo alla sola radiazione diffusa</xs:documentation>
unità di superficie di involucro
[kJ/K]</xs:documentation>
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ombreggiatura
MENSILI</xs:documentation>
type="typeValoriMensili">
verso la volta celeste
[W]</xs:documentation>
type="typeValoriMensili">
MENSILE da Apporti Solari
[W]</xs:documentation>
maxOccurs="unbounded">
type="xs:string" minOccurs="0" />
dell'infixo
[m2]</xs:documentation>
[m2]</xs:documentation>
[m]</xs:documentation>
[m2]</xs:documentation>
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  </xs:annotation>
</xs:element>
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  <xs:annotation>
    <xs:documentation>Extra flusso MENSILE
  </xs:annotation>
</xs:element>
<xs:element name="apportiSolari"
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    <xs:documentation>Energia Termica
  </xs:annotation>
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        </xs:annotation>
      </xs:element>
      <xs:element name="areaVetro">
        <xs:annotation>
          <xs:documentation>Superficie dei vetri
        </xs:annotation>
      </xs:element>
      <xs:element name="perimetroVetro">
        <xs:annotation>
          <xs:documentation>Perimetro del vetro
        </xs:annotation>
      </xs:element>
      <xs:element name="areaTelaio">
        <xs:annotation>
          <xs:documentation>Superficie del telaio
        </xs:annotation>
      </xs:element>
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```

```

Uw
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UwCorr comprensiva di resistenza termica addizionale di chiusure oscuranti
[W/m²K]</xs:documentation>
  </xs:annotation>
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1=Progetto
2=Da produttore</xs:documentation>
  </xs:annotation>
  <xs:simpleType>
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  </xs:annotation>
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[m²K/W]</xs:documentation>
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  </xs:simpleType>
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senso antiorario:
_0°=Sud
45°=SudOvest
90°=Ovest
etc...
NON significativa per superficie ORIZZONTALE</xs:documentation>
  </xs:annotation>
  <xs:simpleType>
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```



```

Lineare del Ponte Termico
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Termico
[m]</xs:documentation>

climatizzato</xs:documentation>

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type="xs:string" minOccurs="0" />

type="xs:unsignedInt">

all'AMBIENTE CONFINANTE</xs:documentation>

1=Pavimento
2=Soffitto</xs:documentation>

disperdente [m²]</xs:documentation>

superficie
[W/m²K]</xs:documentation>

1=Progetto
2=Da produttore</xs:documentation>

```

```

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      <xs:annotation>
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[kJ/K]</xs:documentation>
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    </xs:element>
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[W]</xs:documentation>
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MENSILE da Apporti Solari
[W]</xs:documentation>
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[m²]</xs:documentation>
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```

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  </xs:simpleType>
</xs:element>
<xs:element name="areaTelaio">
  <xs:annotation>
    <xs:documentation>Superficie del telaio
  </xs:annotation>
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1 = Balconi - B
2 = Angoli - C
3=Pavimenti intemedi - IF
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6 = Pilastrini - P
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2=Da produttore</xs:documentation>

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1 = Balconi - B
2 = Angoli - C
3=Pavimenti intemedi - IF
4=Pareti interne - IW
5=Pavimenti con soletta su terreno - GF
6=Pilastrri - P
7=Apertura con porte e finestre - W
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  <xs:field xpath="mstns:IDCertificato" />
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<xs:unique name="Proprietari_Constraint1" msdata:ConstraintName="Constraint1"
msdata:PrimaryKey="true">
  <xs:selector xpath="//mstns:Proprietari" />
  <xs:field xpath="mstns:IDProprietario" />
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  <xs:field xpath="mstns:IDCertificato" />
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msdata:PrimaryKey="true">
  <xs:selector xpath="//mstns:FontiEnergeticheUtilizzate" />
  <xs:field xpath="mstns:IDFontiEnergeticheUtilizzate" />
</xs:unique>

```

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    <xs:unique name="SistemaEdificioImpianto_Constraint1" msdata:ConstraintName="Constraint1"
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    <xs:unique name="Constraint1" msdata:PrimaryKey="true">
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    <xs:field xpath="mstns:IDCertificato" />
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    <xs:selector xpath="//mstns:SistemaEdificioImpianto" />
    <xs:field xpath="mstns:IDCertificato" />
</xs:keyref>
    <xs:keyref name="FK_CERT_FontiEnergeticheUtilizzate_CERT_SistemaEdificioImpianto"
refer="SistemaEdificioImpianto_Constraint1" msdata:IsNested="true">
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    <xs:field xpath="mstns:IDSistemaEdificioImpianto" />
</xs:keyref>
    <xs:keyref name="Certificato_CERT_InterventoMigliorativoTotale" refer="Constraint1"
msdata:IsNested="true">
    <xs:selector xpath="//mstns:InterventoMigliorativoTotale" />
    <xs:field xpath="mstns:IDCertificato" />
</xs:keyref>
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    <xs:field xpath="mstns:IDCertificato" />
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    <xs:keyref name="FK_CERT_CertificatiDatiAggiuntivi_CERT_Certificati" refer="Constraint1"
msdata:IsNested="true">
    <xs:selector xpath="//mstns:DatiAggiuntivi" />
    <xs:field xpath="mstns:IDCertificato" />
</xs:keyref>
    <xs:keyref name="FK_CERT_ComponentiOpachiInvolucroDisperdente_CERT_CertificatiDatiAggiuntivi"
refer="DatiAggiuntivi_Constraint1" msdata:IsNested="true">
    <xs:selector xpath="//mstns:ComponenteOpaco" />
    <xs:field xpath="mstns:IDCertificato" />
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    <xs:keyref
name="FK_CERT_ComponentiTrasparentiInvolucroDisperdente_CERT_CertificatiDatiAggiuntivi"
refer="DatiAggiuntivi_Constraint1" msdata:IsNested="true">
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refer="DatiAggiuntivi_Constraint1" msdata:IsNested="true">
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    <xs:field xpath="mstns:IDCertificato" />
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    <xs:field xpath="mstns:IDDatiZone" />
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msdata:IsNested="true">
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    <xs:field xpath="mstns:IDCertificato" />
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```

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        <xs:documentation>0=Residenziale
1=Non residenziale</xs:documentation>
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      <xs:simpleType>
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    </xs:element>
    <xs:element name="classificazioneDPR412">
      <xs:annotation>
        <xs:documentation>0=E1(1) abitazioni adibite a residenza con carattere continuativo
1=E1(1)bis collegi, luoghi di ricovero, case di pena, caserme, conventi
2=E1(2) abitazioni adibite a residenza con occupazione saltuaria
3=E1(3) edifici adibiti ad albergo, pensione ed attività similari
4=E2 uffici e assimilabili
5=E3 ospedalieri, cliniche, case di cura e assimilabili
6=E4(1) cinema e teatri, sale di riunione per congressi e assimilabili
7=E4(2) mostre, musei e biblioteche, luoghi di culto e assimilabili
8=E4(3) bar, ristoranti, sale da ballo e assimilabili
9=E5 attività commerciali e assimilabili
10=E6(1) piscine, saune e assimilabili
11=E6(2) palestre e assimilabili
12=E6(3) servizi di supporto alle attività sportive
13=E7 attività scolastiche
14=E8 attività industriali, artigianali e assimilabili</xs:documentation>
      </xs:annotation>
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1=Unità immobiliare
2=Gruppo di unità immobiliari</xs:documentation>
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      <xs:annotation>

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    <xs:documentation>0=Nuova Costruzione
1=Passaggio di proprietà
2=Locazione
3=Ristrutturazione importante
4=Riqualificazione Energetica
5=Altro</xs:documentation>
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un'ulteriore motivazione alla voce "Altro"</xs:documentation>
  </xs:annotation>
</xs:element>
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  <xs:annotation>
    <xs:documentation>Descrizione dell'eventuale "Altra" motivazione (valorizzata solo se è
presente "altraMotivazione")</xs:documentation>
  </xs:annotation>
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              </xs:annotation>
              <xs:simpleType>
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                <xs:documentation>solo immagine JPG</xs:documentation>
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        <xs:annotation>
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      <xs:element name="interno" type="xs:string" />
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Latitudine (NORD) in decimali</xs:documentation>
        </xs:annotation>
      </xs:element>
      <xs:element name="LongitudineGIS" type="xs:decimal">
        <xs:annotation>
          <xs:documentation>Coordinata GIS (WGS84):
Longitudine (EST) in decimali</xs:documentation>
        </xs:annotation>
      </xs:element>
      <xs:element name="zonaClimatica">
        <xs:annotation>
          <xs:documentation>A, B, C, D, E, F</xs:documentation>
        </xs:annotation>
        <xs:simpleType>
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    </xs:restriction>
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                <xs:annotation>
                    <xs:documentation>E' possibile inserire più di un blocco di dati catastali per
poter gestire qualsiasi situazione, anche il caso di edifici su più Comuni, etc.
N.B. Deve essere gestita la STAMPA sull' APE.</xs:documentation>
                </xs:annotation>
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                    <xs:documentation>Nel caso di edificio residenziale il servizio di climatizzazione
invernale deve essere sempre attivo</xs:documentation>
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sanitaria deve essere sempre attivo</xs:documentation>
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  <xs:element name="percentualiFontiRinnovabili" type="typeRisultatiFontiRinnovabili" />
  <xs:element name="energiaElettrica" type="typeRisultatiEnergiaElettrica" />
  <xs:element name="fabbisogni">
    <xs:annotation>
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dell'Edificio</xs:documentation>
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      </xs:annotation>
    </xs:element>
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      </xs:annotation>
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[kWh]</xs:documentation>
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[kWh]</xs:documentation>
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[kWh]</xs:documentation>
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[kWh]</xs:documentation>
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</xs:complexType>

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RAFFRESCAMENTO</xs:documentation>
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  <xs:sequence>
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[W/K]</xs:documentation>
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[W/K]</xs:documentation>
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[kWh]</xs:documentation>
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[kWh]</xs:documentation>
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[kWh]</xs:documentation>
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[kWh]</xs:documentation>
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[kWh]</xs:documentation>
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[kWh]</xs:documentation>
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[kWh]</xs:documentation>
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[kWh]</xs:documentation>
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[kWh]</xs:documentation>
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3=Sud-Est
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7=Nord-Ovest
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5=Film sottile di telluro di cadmio (CdTe)</xs:documentation>
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1=G.P.L.
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3=Olio combustibile
4=Kerosene
5=Elettricit 
6=Biomassa liquida
7=Biomassa solida
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2=Compressione endotermica
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2=Ventilconvettori
3=Termoconvettori
4=Aerotermi ad acqua
5=Strisce radianti a fuoco diretto
6=Riscaldatori ad infrarossi
7=Pannelli annegati a pavimento
8=Pannelli annegati a pavimento isolati
9=Pannelli annegati a soffitto
10=Pannelli a parete
11=Bocchette in sistemi ad aria
12=Generatore d'aria calda singolo a basamento o pensile
13=Generatore d'aria calda singolo pensile a condensazione
14=Strisce radianti / Travi fredde
15=Espansione diretta / SPLIT
16=Anemostati
17=Diffusori lineari a soffitto
18=Terminali di sistemi a dislocamento
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1=Armadi autonomi
2=Ventilconvettori industriali posti in ambiente
3=Travi fredde
4=Pannelli isolati annegati a pavimento
5=Pannelli isolati annegati a soffitto
6=Terminali a espansione diretta
7=Unità interne sistemi split
8=Bocchette in sistemi ad aria canalizzata
9=Anemostati
10=Diffusori lineari a soffitto
11=Terminali sistemi a dislocamento</xs:documentation>
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2=Proporzionale 1 °C
3=Proporzionale 0,5 °C
4=PI o PID
5=Modulante</xs:documentation>
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1=E1(1)bis collegi, luoghi di ricovero, case di pena, caserme, conventi
2=E1(2) abitazioni adibite a residenza con occupazione saltuaria
3=E1(3) edifici adibiti ad albergo, pensione ed attività similari
4=E2 uffici e assimilabili
5=E3 ospedali, cliniche, case di cura e assimilabili
6=E4(1) cinema e teatri, sale di riunione per congressi e assimilabili
7=E4(2) mostre, musei e biblioteche, luoghi di culto e assimilabili
8=E4(3) bar, ristoranti, sale da ballo e assimilabili
9=E5 attività commerciali e assimilabili
10=E6(1) piscine, saune e assimilabili
11=E6(2) palestre e assimilabili
12=E6(3) servizi di supporto alle attività sportive
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